
1919
TECHNIQUE


EX LIBRIS
Harold J. Jackson

Permanent Technique Office Record

Do NOT Remove

This is a Rare Copy

TECHNIQUE
1919

TECHNIQUE
NINETEEN~NINETEEN

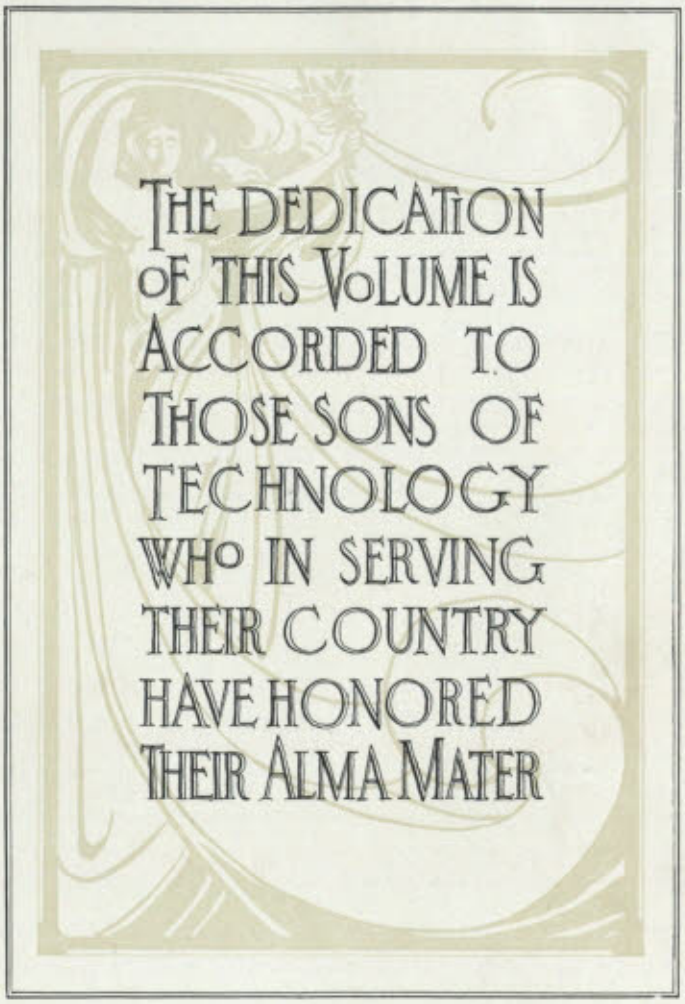
The Year Book of The Massa~. chusetts Institute of Technology

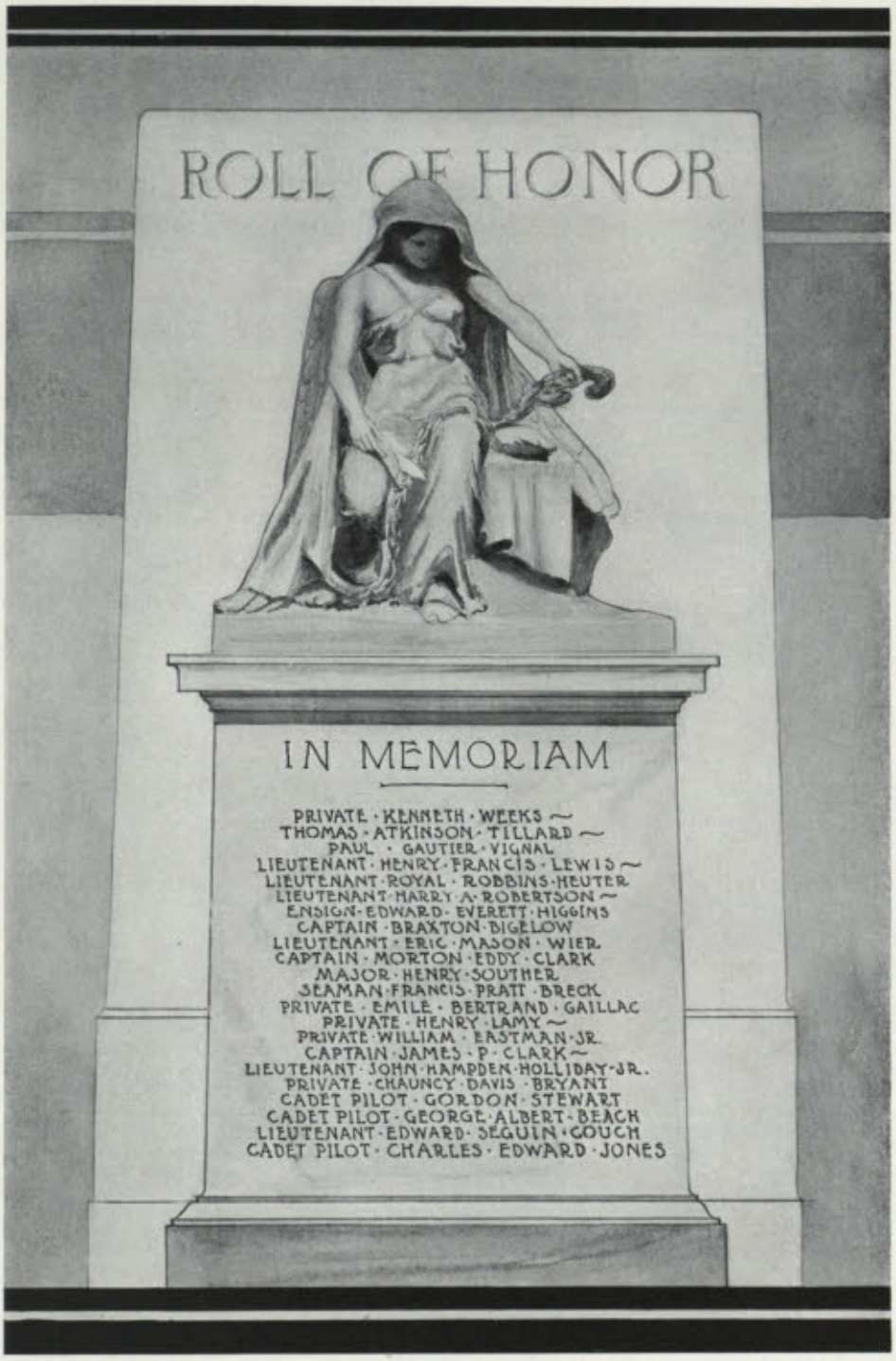


Published in nineteen·eighteen by the Junior Class .....Vol·xxxiii.

TECHNIQUE 1919

Copyright, 1918,
BY D. O. MAYER, J. L. RIEGEL, J. W. REIS, JR.


THE DEDICATION
OF THIS VOLUME IS
ACCORDED TO
THOSE SONS OF
TECHNOLOGY
WHO IN SERVING
THEIR COUNTRY
HAVE HONORED
THEIR ALMA MATER


ROLL OF HONOR
IN MEMORIAM
PRIVATE · KENNETH · WEEKS ~
THOMAS · ATKINSON · TILLARD ~
PAUL · GAUTIER · VIGNAL
LIEUTENANT · HENRY · FRANCIS · LEWIS ~
LIEUTENANT · ROYAL · ROBBINS · HEUTER
LIEUTENANT · HARRY · A · ROBERTSON ~
ENSIGN · EDWARD · EVERETT · HIGGINS
CAPTAIN · BRAXTON · BIGELOW
LIEUTENANT · ERIC · MASON · WIER
CAPTAIN · MORTON · EDDY · CLARK
MAJOR · HENRY · SOUTHER
SEAMAN · FRANCIS · PRATT · BRECK
PRIVATE · EMILE · BERTRAND · GAILLAC
PRIVATE · HENRY · LAMY ~
PRIVATE · WILLIAM · EASTMAN · JR.
CAPTAIN · JAMES · P · CLARK ~
LIEUTENANT · JOHN · HAMPDEN · HOLLIDAY · JR.
PRIVATE · CHAUNCY · DAVIS · BRYANT
CADET PILOT · GORDON · STEWART
CADET PILOT · GEORGE · ALBERT · BEACH
LIEUTENANT · EDWARD · SEGUIN · GOUGH
CADET PILOT · CHARLES · EDWARD · JONES

ROLL OF HONOR

CLASS OF 1918

John M. Abrahams
William J. Ahearn
Howard B. Allen
Cyril L. Angell
Carleton S. Ayer
Malcolm J. Baber
Benjamin D. Ballantine
Henry M. Barber
Henry A. Berliner
Irving G. Betts
Walter B. Biggar
Carleton W. Blanchard
Henry M. Blank
Leo L. Blodgett
Nelson A. Bond
Ingvald T. Braaten
Donald G. Bradley
Harvey H. Brown, Jr.
William K. Bruckhauser
Douglas R. Buchanan
Julian A. Buerkin
Arthur E. Burke
Oliver D. Burton
Ralph J. Bushee
Edwin J. Cameron
Edward H. Carter
Frank W. Cary
Samuel V. Chamberlain
Donald S. Clark
John W. Clarkson
Harold C. Clayton
Robert T. Collier
Harold Conant
Stanley K. Cooper
Harry J. Coyne
Frank R. Creedon
Enos W. Curtin
George B. Cutts
John W. Damon
Norman Dawson
Paul A. Demers
Robert E. DeMerritt
Daniel Demond
Allen L. Drake
Herbert A. Dyer
Dinsmore Ely
James A. Flint
Thomas S. Fogarty
Stephen M. Foster
William C. Foster
Stanley H. Franklin
Walter S. Frazier
John R. Fuller
Harold L. Gleason
Herbert J. Goldsmith
Edward W. Gore
Prescott W. Gould
William A. Gray, Jr.
Benjamin M. Greely, Jr.
Horace M. Guilbert
Ernest E. Gustin
Irving G. Hall
Norman R. Hamilton
Grenville L. Hancock
Thomas W. Hansberry
Herbert W. Hatch
Mortimer D. Hathaway
Earl R. Hatten
Robert C. Heyl, Jr.
William E. Hilbert
Nelson C. Hinckley
Ellsworth V. Holden
Benjamin M. Hooper
Henry D. Hopkinson
Allan F. Howard
George B. Hutchings
Willard E. Imhof
James C. Irwin, Jr.
Gardner E. Johnson
James L. Jones
William A. Jones
Karl H. Kaiser
Harold V. L. Kaler
Harold Y. Keeler
Parker H. Kennedy
Chester L. Kingsbury
Franklin L. Kline
Cornelius Van S. Knox
Nathaniel Krasnoff
Herbert B. Larner
Julian T. Leonard
Charles W. Lippitt, Jr.
Charles C. Long
William M. B. Lord
Olvin G. Lufkin
Alexander G. MacAlister, Jr.
Russell B. McCann
John W. McCausland
Bruce M. McDill
Carlisle C. McIvor
Richard J. McLaughlin
William R. MacLeod
Edwin M. McNally
Lansing McVickar
Ellwood M. Mantee
James S. Marine
John R. Markham
James DeG. May
Edward A. Mead
Henry L. Miller
Raymond P. Miller
James R. Milliken
Donald H. Montgomery
Walter A. Moore
Francis A. Moran
George S. Murray
Ralph P. Newhall
Edwin M. Newton
Winthrop E. Nightingale
James W. O'Brien, Jr.
Harold F. O'Donnell
Frank G. Osgood
Donald B. Parkinson
Frank W. Peers
Frederick B. Philbrick
Earle A. Pickett
George R. Pierce
Henry Pinkerton
Arthur Pope, Jr.
Kenneth E. Pote
John C. Purves
Clifford S. Read
Mahlon M. Read
David A. Reed, Jr.
Clarence E. Richards, Jr.
James L. Ricketts
Walter H. Robertson
Edward Rogal
John W. Rogers
Wingate Rollins
Kenyon Roper
Edwin F. Rossman
William P. Ryan
Ralph Sargent
Edward J. Shields
Hampton F. Shirer
Dean S. Sibley
Frederick B. Smith
Granville B. Smith
Maynard L. Smith
Richard H. Smith
Ralston B. Smyth
John A. Steere
Harold Sterner
Marvin M. Stetler
Horace G. Swan
James M. Todd
William H. Turner
Chester R. Tutein
Albert E. Tuttle
Armin A. Uebelacker
Lloyd B. Van da Linda

Stuart G. Wallace
Donald D. Warner
Frederick L. Warner
William Weber
Franklin H. Wells
Harold C. Wells
Robert H. Wells

Frederick W. White
George R. White
Amory L. Williams
Walter C. Wilson
Arthur E. Windle
Walter C. Wood
George W. Woodruff

John B. Woodward
James C. Wooten
Nelson C. Works
Henry W. Wright
Theodore P. Wright
Louis E. Wyman

CLASS OF 1919

Edward C. Anderson
Frank M. Babbitt
William S. Bailey
Herbert W. Barrett
George L. Baum
Gilbert T. Beers
Roderick L. Bent
Ernest C. Bomar
William E. Bonnell
William M. Bouknight
Louis J. Brown
Malcolm C. Brown
Leonard M. Bruten
Douglas C. Burkett
Lawrence B. Cahill, Jr.
Arthur A. Clark
Myron H. Clark
Norman D. Conniers
Huron D. Corthell
Kenneth M. Cunningham
John T. Curran
K. S. M. Davidson
Cutter P. Davis
Guy H. Davis
Edward F. Deacon
Henry S. Derby
Harold E. Dimmick
Angus D. Douglas
Robert W. Durland
Albert L. Edson
Frederick G. Elwell
Herbert G. Fales
Robert L. Falkenberg
William G. Farrisee
Edmund G. Farrand
Arthur E. Farrington
Edward S. Fields, Jr.
Ralph C. Flewelling
George F. French

Arlo E. Garnsey
Grant E. Gay
James W. Gibson
Henry C. Giles
Joel A. Goldthwait
Joseph F. Guppy
Lewis E. Hartman
Ernest T. Hickman
Edmund W. Hill
Alfred G. Hoffman
Joseph W. Homer, Jr.
Frederick J. Hopkinson
Walter M. Howlett
Eben R. Hubbard
Reginald S. Hunt
George A. Erwin
Dugald C. Jackson, Jr.
Norwood P. Johnston*
Clyde C. Jones
Ira P. Jones
Donald W. Kitchin
Roger M. Leland
Robert F. Lewis
Robert R. Litehiser
C. Edmund Little
William H. Little
Herbert N. Loomer
Philip W. Loomis
Edward B. McCarthy
Louis A. McCarthy
Arthur W. McFarland
Donald McKetchnie
Howard S. MacKirdy
Arthur M. McMorran
Harold F. Marshall
George R. Martin
Robert S. Means
Herbert C. Merrill

John O. Merrill
Leland H. Merrill
David P. Minard
Arthur A. Obert
John W. Orcutt
Arthur E. Page
Robert H. Pease
Donald C. Pero
Sidney T. Phelan
Bernard O. Pinkham
William Pinkney, Jr.
Frank P. Reynolds
Karl F. Rogers
George W. Root
Edward L. Sache
Alexander H. Santos
Edward E. Schofield
Charles W. Scranton
James B. Scully
Samuel A. Sherman
Frederick G. C. Smith, Jr.
James H. Smith
Aubrey H. Strauss
James G. Strobridge
Kimberly Stuart*
Lyall L. Stuart
Samuel H. Taber
Carl E. Thomas
James P. Thurber
Alfred L. Warren
Harold C. Wasgatt
Leon H. A. Weaver
Marcus W. Weiscopf
Hubert E. Wellcome
Robert K. Wells
John P. Wentworth
Kenneth A. Wright

CLASS OF 1920

Clinton L. Bond
John L. Bowman
C. Collins Bray
Waldo H. Brown
F. Scott Carpenter
Raymond S. Coward
Walter M. Cusick
Haroutune K. Daghlian
James L. Dean
James M. DuVernet
Lewis S. Edgarton
John M. Erving
Arthur J. Fassit, Jr.
Richard K. Gibson, Jr.
Donald S. Graves

Herbert C. Button

Elmer Griesmer
Samuel D. Hathaway
E. A. Hollander
Richard V. A. Hubbell
Elmer L. Johansen
Kenneth T. Lavelle
Charles J. Lawson
A. Everett Libby
John M. McCloskey, Jr.
Ralph J. McFadden
Charles B. Maloy
Arthur H. Mesmer
Allen Morse
Benjamin C. Morse, Jr.

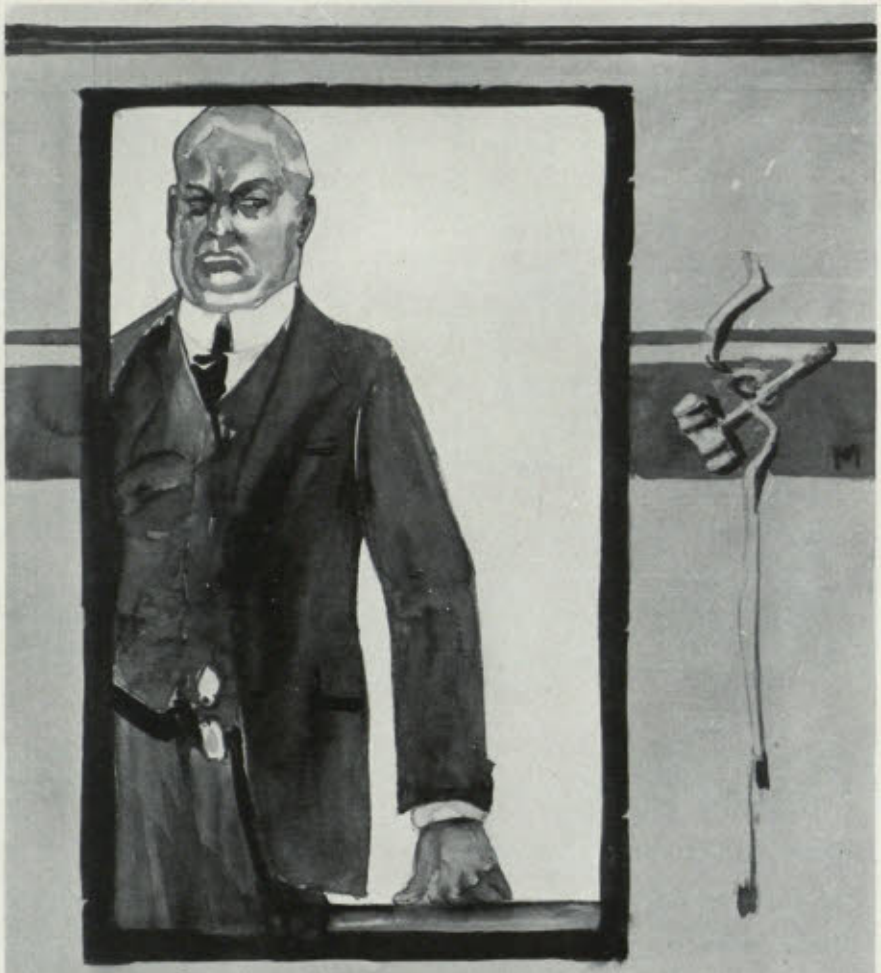
Dudley B. Murphy
Austin S. Myers
Addis D. Nelson
John H. Nelson
Frank S. Owen
Kenneth B. Page
John T. Pierce
Wendell P. Sammett
Albert V. Smith
Charles A. Smith
Thomas R. Taber
Lyman P. Whitten
Arthur F. Williams
Livingston Wright

CLASS OF 1921

Lloyd F. Hoops

Gilbert N. Ross

* Croix de Guerre



OFFICERS OF Æ INSTITUTE





OFFICERS OF INSTITUTE

President

RICHARD COCKBURN MACLAURIN, B.A., LL.M., M.A., Sc.D., LL.D.,—B.A., Cambridge, 1895; LL.M., Cambridge, 1898; M.A., New Zealand, 1899; LL.D., Cambridge, 1904; Sc.D., Cambridge, 1908; D.Sc., Dartmouth, 1909; LL.D., Wesleyan, 1909; LL.D., Harvard, 1910. 111 Charles River Road.

Secretary of the Corporation
JAMES P. MUNROE

Treasurer
FRANCIS R. HART

Bursar
HORACE S. FORD

Librarian
ROBERT P. BIGELOW

Assistant Treasurer
WALTER F. WYETH

Superintendent of Power and Buildings
ALBERT S. SMITH (Absent, Captain, U.S.R.)

OFFICERS OF THE FACULTY

Chairman
ARTHUR E. KENNELLY

Dean
ALFRED E. BURTON

Secretary
ALLYNE L. MERRILL

Registrar and Recorder
WALTER HUMPHREYS

Assistant Registrar
OBADIAH F. WELLS

Department of Civil and Sanitary Engineering



Howard Babcock Sutherland Luther Russell
Hosmer Barrows Johnson Robbins Breed Barker
Whipple Swain Spofford Burton Porter

Professors

CHARLES M. SPOFFORD, AΧΡ; S.B., M. I. T., 1893.
Hayward Professor of Civil Engineering; in charge of the Department. Residence: 61 Colbourne Crescent, Brookline.

GEORGE F. SWAIN, S.B., M. I. T., 1877; LL.D., New York University, 1907.
Gordon McKay Professor of Civil Engineering. Residence: 1988 Commonwealth Avenue, Brighton.

DWIGHT PORTER, Ph.B., Yale Scientific School, 1880.
Professor of Hydraulic and Sanitary Engineering; in charge of the Department of Sanitary Engineering. Residence: 32 Maple Avenue, Newton.

ALFRED E. BURTON, ΔΚΕ, ΦΒΚ; S.B., Bowdoin, 1878; Sc.D., 1913.
Dean; in charge of the Departments of Drawing and Physical Training. Residence: 32 Webster Court, Newton Center.

LEWIS J. JOHNSON, A.B., Harvard, 1887; C.E., 1888.
Professor of Civil Engineering. Residence: 90 Raymond Street, Cambridge.

ARTHUR G. ROBBINS, S.B., M. I. T., 1886.
Professor of Topographical Drawing. Residence: 42 Park Street, Belmont.

GEORGE C. WHIPPLE, S.B., M. I. T., 1889.
Gordon McKay Professor of Sanitary Engineering. Residence: 6 Berkeley Place, Cambridge.

CHARLES B. BREED, ΦΣΚ; S.B., M. I. T., 1897.
Professor of Railroad Engineering. Residence: 160 Ocean Street, Lynn.

HECTOR J. HUGHES, ΔΤ; A.B., Harvard, 1894; S.B., 1899.
Professor of Civil Engineering. Residence: 6 Clement Circle, Cambridge.

HAROLD K. BARROWS, S.B., M. I. T., 1895.
Associate Professor of Hydraulic Engineering. Residence: 319 Highland Avenue, Winchester.

GEORGE E. RUSSELL, S.B., M. I. T., 1900.
Associate Professor of Hydraulic Engineering. Residence: 996 South Street, Roslindale.

Department of Civil and Sanitary Engineering.—*Continued*

GEORGE L. HOSMER, S.B., M. I. T., 1897.
Associate Professor of Topographical Engineering. Residence: 280 Washington Street, Woburn.

JOHN W. HOWARD, S.B., M. I. T., 1903.
Assistant Professor of Topographical Engineering. Residence: 147 Grampian Way, Dorchester.

JAMES M. BARKER, S.B., M. I. T.
Assistant Professor of Structural Engineering. Residence: 46 Rockledge Road, Newton Highlands.

Instructors

HOWARD B. LUTHER, S.B., Dipl. Ing.
(Absent, Jr. Lieut., U.S.N.R.F.C.)
JOHN B. BABCOCK, 3rd, S.B.

Assistants

JAMES B. NEWMAN, B.A.E.
CLAIRE D. ACKER
PAUL CONNOR, S.B.
ALFRED S. NILES, Jr., S.B.

Department of Mechanical Engineering, Applied Mechanics, and Mechanic Arts



Taft O'Neill Smith Dole Robinson Jones Parker Sawyer Swett Eames Peabody Littlefield Taylor
Smith Hayward Fuller Merrill Miller Johnston Haven Lambirth Berry
Lunn Ferretti Burnham Yeaton Humphreys Adams Holmes Cowdrey James

Professors

EDWARD F. MILLER, ΦΣΚ; S.B., M. I. T., 1886.
Professor of Steam Engineering; in charge of the Department. Residence: 538 Ward Street, Newton Center.

ALLYNE L. MERRILL, S.B., M. I. T., 1885.
Professor of Mechanism. Secretary of the Faculty. Residence: Payson Park, Belmont.

LIONEL S. MARKS, ΣΞ; B.Sc., London University, 1893; M.M.E., Cornell, 1894.
Professor of Mechanical Engineering. Residence: 192 Brattle Street, Cambridge.

Department of Mechanical Engineering, Applied Mechanics, and Mechanic Arts.—*Continued*

CHARLES E. FULLER, S.B., M. I. T., 1892.
Professor of Theoretical and Applied Mechanics. Residence: Wellesley.

WILLIAM A. JOHNSTON, S.B., M. I. T., 1892.
Professor of Theoretical and Applied Mechanics. Residence: 35 Hillside Terrace, Belmont.

CHARLES F. PARK, ΑΤΩ; S.B., M. I. T., 1892.
Professor of Mechanism; Director of the Mechanical Laboratories; Director of the Lowell Institute for Industrial Foremen. Residence: 21 Prospect Street, Taunton.

JOSEPH C. RILEY, S.B., M. I. T., 1898.
Associate Professor of Heat Engineering. (Absent, Major, U.S.A.) Residence: 77 Rockview Street, Jamaica Plain.

GEORGE B. HAVEN, S.B., M. I. T., 1894.
Professor of Machine Design. Residence: 704 Webster Street, Needham.

CHARLES W. BERRY, S.B., M. I. T., 1895.
Associate Professor of Heat Engineering. Residence: 952 Broadway, West Somerville.

HARRISON W. HAYWARD, ΘΞ; S.B., M. I. T., 1896.
Associate Professor of Theoretical and Applied Mechanics. Residence: 26 Everett Street, Newton Center.

ARTHUR E. NORTON, ΦΔΘ, ΦΒΚ, ΣΞ; Ph.B., Brown, 1900.
Assistant Professor of Engineering Drawing. Residence: 39 Centre Avenue, Belmont.

THEODORE H. TAFT, S.B., M. I. T., 1902.
Assistant Professor of Mechanical Engineering. Residence: Cypress Road, Wellesley Hills.

WALTER H. JAMES, S.B., M. I. T., 1896.
Assistant Professor of Mechanical Engineering Drawing. Residence: Portsmouth, New Hampshire.

LAWRENCE S. SMITH, S.B., M. I. T., 1900.
Assistant Professor of Theoretical and Applied Mechanics. Residence: 25 Fisher Avenue, Newton Highlands.

GEORGE W. SWETT, S.B., M. I. T., 1903.
Assistant Professor of Machine Design. Residence: 11 Henry Avenue, Melrose Highlands.

Instructors

JAMES R. LAMBIRTH
WILLIAM H. JONES, S.B.
ROY G. BURNHAM, S.B.
RALPH G. ADAMS, S.B.
WALTER HUMPHREYS, S.B.
CHARLES B. SAWYER, B.A.
JESSE J. EAMES, S.B.
FRANCIS A. BROWN
DEAN PEABODY, Jr., S.B.
ADDISON F. HOLMES, S.B.
ARTHUR B. ENGLISH
JEREMIAH F. O'NEILL
ROBERT H. SMITH
CHARLES E. LITTLEFIELD
MYRON W. DOLE, S.B.
KENNETH C. ROBINSON, S.B.
IRVING H. COWDREY, S.B.
DEWITT M. TAYLOR, S.B.

Assistants

HARRY G. DAVIES
HERBERT C. PARKER, A.B.
J. ALECK LUNN, S.B.
(Absent, 2nd Lt., U.S.R.)
CHESTER A. ROGERS
ALFRED J. FERRETTI, S.B.
PHILIP O. YEATON, S.B.
FRANK OLSON
EDWARD D. SEWALL, S.B.

Department of Architecture and Architectural Engineering



Lord Codman | Bird | Sumner | Porter | Brown | Cram | Jenney | Lawrence | Holbrook | Gardner | Everett

Professors

RALPH ADAMS CRAM, Litt.D., Princeton, 1910; LL.D; in charge of the Department. Residence: 52 Chestnut Street, Boston.

WILLIAM A. LAWRENCE, S.B., M. I. T., 1891.
Professor of Architectural Engineering; chairman of the Department. Residence: 72 Sumner Street, Dorchester.

JOHN O. SUMNER, A.B., Harvard, 1887.
Professor of History. Residence: 225 Marlborough Street, Boston.

HARRY W. GARDNER, S.B., M. I. T., 1894.
Professor of Architecture. Residence: 53 Charlesbank Road, Newton.

W. FELTON BROWN.
Professor of Freehand Drawing. Residence: 35 Glenwood Street, Roxbury.

STEPHEN CODMAN, A.B., Harvard, 1888; A.D.P.G.
Associate Professor of Architecture. Residence: 10 Chestnut Street, Boston.

CHARLES EVERETT, A.B., Harvard, 1905; A.D.P.G., École des Beaux-Arts, Paris, 1911.
Assistant Professor of Architecture. Residence: 42 Parker Street, Newton Center.

Instructors

C. HOWARD WALKER
ALEXANDER S. JENNEY
PAUL W. NORTON, A.B., S.B.
RUSSELL W. PORTER, S.B., M.S.

Assistant

IDA D. LORING

Department of Mining Engineering and Metallurgy

Professors

HEINRICH O. HOFMAN, E.M., Met. E., School of Mines, Clausthal, 1877; Ph.D., Ohio University, 1889. Professor of Metallurgy; in charge of the Department. Residence; 88 Robinwood Avenue, Jamaica Plain.

HENRY L. SMYTH, ΔΚΕ, ΖΨ; A.B., Harvard, 1883; C.E., 1885.
Professor of Mining and Metallurgy. Residence: Belmont Street, Watertown.

Department of Mining Engineering and Metallurgy.—*Continued*



Raymer | Locke, Peters (deceased) | Hayward, Hofman | Bugbee, Sauveur | Reed

ALBERT SAUVEUR, S.B., M. I. T., 1889.
Professor of Metallurgy and Metallography. Residence: 20 Elmwood Avenue, Cambridge. (Absent, Metallographic Expert for French Government.)

GEORGE S. RAYMER, A.B., Harvard, 1878; M.E., Columbia, 1881.
Assistant Professor of Mining. Residence: 51 Brattle Street, Cambridge.

CHARLES E. LOCKE, S.B., M. I. T., 1896.
Assistant Professor of Mining Engineering and Metallurgy. Residence: 22 Blagden Street, Boston.

EDWARD E. BUGBEE, ΒΘΠ, ΣΞ; S.B., M. I. T., 1900.
Assistant Professor of Mining Engineering and Metallurgy. Residence: 110 Strathmore Road, Brighton.

CARLE E. HAYWARD, S.B., M. I. T., 1904.
Assistant Professor of Mining Engineering and Metallurgy. Residence: 15 Aspinwall Avenue, North Weymouth.

Instructor

RUFUS C. REED

Research Assistants

HANS NUHN, Ch.E. ISRAEL ROSENBLUM, Ch.E.

Department of Chemistry and Chemical Engineering

Professors

HENRY P. TALBOT, ΦΓΔ; S.B., M. I. T., 1885.; Ph.D., Leipzig, 1890; in charge of the Department. Residence: 273 Otis Street, West Newton.
(Chemical Division, War Industries Board.)

WILLIAM H. WALKER, ΦΚΣ; S.B., Pennsylvania State College, 1890; Ph.D., Göttingen, 1892. Head of the Chemical Engineering Course. Residence: 226 Bay State Road, Boston.
(Absent, Lieutenant-Colonel, Chemical Section, U.S.R.)

ARTHUR A. NOYES, S.B., M. I. T., 1886; S.M., M. I. T., 1887; Ph.D., Leipzig, 1890; LL.D., Maine, 1908; LL.D., Clarke, 1909; Sc.D., Harvard, 1909; Sc.D., Yale, 1913.
Professor of Theoretical Chemistry; Director of the Research Laboratory of Physical Chemistry. Residence: 58 Fenway, Boston.

Department of Chemistry and Chemical Engineering.—*Continued*



Millard Norton Lewis Norris Spear Sherrill
Hall Phelan Mulliken Mueller Blanchard Woodman
Gill Moore Walker Talbot Noyes Fay

HENRY FAY, A.B., Lafayette, 1889; Ph.D., Johns Hopkins, 1895.
Professor of Analytical Chemistry. Residence: 11 Worthington Road, Brookline.

AUGUSTUS H. GILL, S.B., M. I. T., 1884; Ph.D., Leipzig, 1890.
Professor of Technical Chemical Analysis. Residence: 41 Myrtle Street, Belmont.

F. JEWETT MOORE, ΧΦ; B.A., Amherst, 1889; Ph.D., Heidelberg, 1893.
Professor of Organic Chemistry. Residence: 29 Commonwealth Avenue, Boston.

WARREN K. LEWIS, S.B., M. I. T., 1905; Ph.D., Breslau, 1908.
Professor of Chemical Engineering. Residence: 85 Lombard Street, Newton.

JAMES F. NORRIS.
Professor of General Chemistry. (Absent, engaged in Government Research Work.) Residence: 18 Euston Street, Brookline.

WILLIS R. WHITNEY, S.B., M. I. T., 1905; Ph.D., Leipzig, 1895.
Non-Resident Professor of Chemical Research. Residence: Schenectady, New York.

SAMUEL P. MULLIKEN, S.B., M. I. T., 1887; Ph.D., Leipzig, 1890.
Associate Professor of Organic Chemical Research. Residence: 10 Harris Street, Newburyport.

MILES S. SHERRILL, S.B., M. I. T., 1889; Ph.D., Breslau, 1903.
Associate Professor of Theoretical Chemistry. Residence: 83 Longwood Avenue, Brookline.

ALPHEUS G. WOODMAN, S.B., M. I. T., 1897.
Associate Professor of Chemistry of Foods. Residence: 367 School Street, Watertown.

ARTHUR A. BLANCHARD, S.B., M. I. T., 1897.
Associate Professor of Inorganic Chemistry. Residence: 72 Crescent Avenue, Newton Center.

ELLWOOD B. SPEAR, B.A., University of Manitoba, 1889; Ph.D., Heidelberg, 1906.
Associate Professor of Inorganic Chemistry. Residence: 27 Walker Street, Cambridge.

WILLIAM T. HALL, ΣΑΕ; S.B., M. I. T., 1895.
Assistant Professor of Analytical Chemistry. Residence: 37 Pomfret Street, West Roxbury.

ROBERT S. WILLIAMS, S.B., M. I. T., 1902; Ph.D., Göttingen, 1907.
Assistant Professor of Analytical Chemistry. Residence: 156 Magazine Street, Cambridge.

EDWARD MUELLER, S.B., Purdue, 1902; A.M., Harvard, 1905; Ph.D., 1907.
Assistant Professor of Inorganic Chemistry. Residence: Burton Halls, Dana Street, Cambridge.

JOSEPH W. PHELAN, S.B., M. I. T., 1894.
Assistant Professor of Inorganic Chemistry. Residence: 60 Brooks Street, West Medford.

EARL B. MILLARD, B.A., University of Colorado, 1910; M.A., University of Wisconsin, 1911; Ph.D., University of Illinois, 1914.
Assistant Professor of Theoretical Chemistry. Residence: 20 Prescott Street, Cambridge.

Assistants

RUTH M. THOMAS, S.B.
ROGER B. BROWNS, S.B.
JAMES F. MAGUIRE, JR., S.B.
WALTER G. WHITMAN, S.B.
AMY WALKER, A.M.
EARLE E. RICHARDSON, S.B.
ALDEN D. NUTE
EDWARD ZEITFUCHS, S.B.
LOUISE P. JOHNSON, S.B.
ALAN G. RICHARDS
CHANDLER T. WHITE, S.B.

Department of Biology and Public Health



Brown Bigelow Ingham Sedgwick Turner Prescott Gunn

Professors

WILLIAM T. SEDGWICK, Ph.B., Yale, 1877; Ph.D., Johns Hopkins, 1881; Sc.D. (Hon.), Yale, 1909.
Professor of Biology and Public Health; in charge of the Department. Residence: 29 Commonwealth Avenue, Boston.

SAMUEL C. PRESCOTT, S.B., M. I. T., 1894.
Professor of Industrial Microbiology. (Absent, Major, Sanitary Corps, N.A.) Residence: 79 Cypress Street, Brookline.

SELSKAR M. GUNN, ΝΣΝ; S.B., M. I. T., 1905.
Associate Professor of Biology and Public Health. (Absent, Associate Director of Anti-Tuberculosis Commission in France.) Residence: Goden Street, Belmont.

ROBERT P. BIGELOW, ΒΘΠ; S.B., Harvard, 1887; Ph.D., Johns Hopkins, 1892.
Associate Professor of Zoölogy and Parasitology. Librarian. Residence: 11 Park Street, Brookline.

Instructors

CLAIR E. TURNER, A.M.
FRANCIS H. SLACK, M.D.
WILLIAM E. BROWN, B.S., C.P.H.
MURRAY P. HOROWITZ, B.S., S.M.

Department of Electrical Engineering



Laws Marston Adams Hudson Green Jackson Perry Schurig Kennelly Lawrence Wickenden Smith

Professors

DUGALD C. JACKSON, ΦΚΣ, ΣΞ, TBII; S.B., Pennsylvania State College, 1885; C.E., 1887; in charge of the Department. Residence: 5 Mercer Circle, Cambridge.

ARTHUR E. KENNELLY, S.D., Pittsburg, 1896; A.M., Harvard, 1906.
Professor of Electrical Engineering. Director of the Research Division. Residence: 1 Kennedy Road, Cambridge.

HARRY E. CLIFFORD, ΘΞ; S.B., M. I. T., 1886.
Gordon McKay Professor of Electrical Engineering. Residence: 942 Beacon Street, Newton Center.

COMFORT A. ADAMS, ΦΚΨ; S.B., Case, 1890; E.E., 1905.
Abbott and James Lawrence Professor of Electrical Engineering. Residence: 13 Farrar Street, Cambridge.

FRANK A. LAWS, S.B., M. I. T., 1889.
Professor of Electrical Engineering. Residence: 124½ Federal Street, Boston.

RALPH R. LAWRENCE, S.B., M. I. T., 1895.
Associate Professor of Electrical Engineering. Residence: 72 Sumner Street, Dorchester.

WILLIAM E. WICKENDEN, ΣΧ, ΦΒΚ, ΣΞ; B.S., Denison, 1904.
Associate Professor of Electrical Engineering. Residence: 15 Kirk Street, West Roxbury.

CHARLES W. GREEN, TBII; B.S., Wisconsin, 1907.
Assistant Professor of Electrical Engineering. (Absent, Captain, C.A.C., U.S.A.) Residence: Clifton.

WALDO V. LYON, S.B.
Assistant Professor of Electrical Engineering. Residence: 249 Berkeley Street, Boston.

RALPH G. HUDSON, S.B., 1907.
Assistant Professor of Electrical Engineering. Residence: 30 Burton Street, Brighton.

Instructors

NATHANIEL S. MARSTON, S.B.
CHESTER L. DAWES, S.B.
CLAIRE W. RICKER, S.B., S.M., M.M.E.
WILLIAM T. HAINES

Assistants

ERNEST W. CHAPIN, A.B.
PAUL H. BURKHARDT, B.S.
CHARLES O. GIBBON, S.M.
RUSSELL N. HUNTER, B.S.
EDWIN A. EKDAHL, S.B.
CHARLES W. WHITALL, S.B., S.M.
GUY A. GRAY, S.B.
CLIFFORD E. LANSIL, S.B.

Department of Physics and Electro-Chemistry



Lana, Comstock, Drisko, Hollnagel, Frye, Wilkes
Page, Derr, Wilson, Goodwin, Norton, Barss

Professors

EDWIN B. WILSON, ΣΞ, ΦΒΚ; A.B., Harvard, 1899; Ph.D., Yale, 1901; in charge of the Department. Residence: 46 Williams Street, Brookline.

HARRY M. GOODWIN, S.B., M. I. T., 1890; Ph.D., Leipzig, 1893.
Professor of Physics and Electro-Chemistry. Residence: 424 Walnut Street, Brookline.

LOUIS DERR, ΔΤ, ΦΒΚ; B.A., Amherst, 1889; M.A., 1892; S.B., M. I. T., 1892.
Professor of Physics. Residence: 83 Center Street, Brookline.

CHARLES L. NORTON, S.B., M. I. T., 1893.
Professor of Industrial Physics. Residence: 55 Chestnut Street, Boston.

WILLIAM J. DRISKO, S.B., M. I. T., 1895.
Associate Professor of Physics. Residence: 28 Lloyd Street, Winchester.

MAURICE DEK. THOMPSON, ΔΚΕ; S.B., M. I. T., 1898; Ph.D., Basel, 1903.
Associate Professor of Electro-Chemistry. Residence: 5 Fairmount Street, Brookline.

DANIEL F. COMSTOCK, S.B., M. I. T., 1904; Ph.D., Basel, 1906.
Associate Professor of Theoretical Physics. (Absent, Anti-Submarine investigation for Government.) Residence: 1477 Beacon Street, Brookline.

NEWELL C. PAGE, S.B., M. I. T., 1902.
Assistant Professor of Physics. Residence: 26 Maxwell Road, Winchester.

HERBERT P. HOLLNAGEL, ΘΧ; S.B., M. I. T., 1906; S.M., M. I. T., 1909; Ph.D., University of Berlin, 1910.
Assistant Professor of Physics. Residence: 120 Pleasant Street, Brookline.

Instructors

WILLIAM R. BARSS, A.B., Ph.D. ROYAL M. FRYE, A.M. GORDON B. WILKES, S.B.

Assistant

CASIMIRO LANA, D.S.

Department of Geology



Warren Barry Lindgren Lahee Shimer

Professors

WALDEMAR LINDGREN, M.E., Freiberg, 1883; in charge of the Department. Residence: 176 Naples Road, Brookline.

CHARLES H. WARREN, ΣΞ; Ph.B., Yale, 1896; A.M., 1894; Ph.D., 1897.
Professor of Mineralogy. Residence: 67 Perry Street, Brookline.

HERVEY W. SHIMER, ΣΞ; A.B., Lafayette, 1889; A.M., 1901; Ph.D., Columbia, 1904.
Associate Professor of Paleontology. Residence: 15 Appleton Terrace, Watertown.

FREDERIC H. LAHEE, A.B., Harvard, 1907; A.M., 1908; Ph.D., 1911.
Assistant Professor of Geology. Residence: 42 Concord Avenue, Cambridge.

Instructors

JOHN G. BARRY, S.B. (Absent, Cadet, O. T. C.) WILLIAM F. JONES, S.B.

Department of Naval Architecture and Marine Engineering



Denkinger Peabody Warner Owen Rhodes

Professors

CECIL H. PEABODY, S.B., M. I. T., 1877; in charge of the Department. Residence: 293 Commonwealth Avenue, Boston.

WILLIAM HOVGAARD.
Professor of Naval Design and Construction. (Absent, in service.) Residence: 91 Marion Street, Brookline.

EDWIN B. WILSON, ΣΞ, ΦΒΚ; A.B., Harvard, 1899; Ph.D., Yale, 1901.
Professor of Mathematical Physics. Residence: 46 Williams Street, Brookline.

JOSEPH C. RILEY, S.B., M. I. T., 1898.
Associate Professor of Heat Engineering. (Absent, Major, U.S.A.) Residence: 77 Rockview Street, Jamaica Plain.

HENRY H. W. KEITH, S.B., M. I. T., 1905.
Assistant Professor of Naval Architecture. (Absent, Lieutenant, U.S.N.) Residence: 177 Fuller Street, Brookline.

GEORGE OWEN, ΦΒΕ; S.B., M. I. T., 1894.
Assistant Professor of Naval Architecture. Residence: 36 Hollis Street, Newton.

Instructors

EVERS BURTNER, S.B. ALEXANDER KLEMIN, B.Sc., S.M.

Assistants

GEORGE M. DENKINGER PHILIP L. RHODES EDWARD P. WARNER, S.B.

Department of Drawing and Descriptive Geometry



Overland, Goodrich, Breed, Brown, Hauser, Burton, Wareham, Stevens, Kenison, Gracey, Bradley

Professors

ALFRED E. BURTON, ΔΚΕ, ΦΒΚ; S.B., Bowdoin, 1878; in charge of the Department. Residence: 32 Webster Court, Newton Center.

ERVIN KENISON, S.B., M. I. T., 1893.
Associate Professor of Drawing and Descriptive Geometry. Residence: 48 Franklin Street, Watertown.

W. FELTON BROWN.
Associate Professor of Freehand Drawing. Residence: 35 Glenwood Street, Roxbury.

HARRY C. BRADLEY, S.B., M. I. T., 1891.
Assistant Professor of Drawing and Descriptive Geometry. Residence: 23 Brookview Street, Dorchester Center.

ARTHUR E. NORTON, ΦΔΘ, ΦΒΚ, ΣΞ; Ph.B., Brown, 1900.
Assistant Professor of Engineering Drawing. Residence: 39 Center Avenue, Belmont.

ARTHUR L. GOODRICH, S.B., M. I. T., 1898.
Assistant Professor of Drawing and Descriptive Geometry. Residence: 11 Tetlow Street, Boston.

Instructors

STEPHEN A. BREED, S.B.
FRANK M. GRACEY
RALPH G. OVERLAND
WALTER J. HAUSER, S.M.
WILLIAM J. MCJENNETT, S.B.

Assistants

CLIFFORD K. RATHBONE
CHARLES R. MABIE

Department of Mathematics



Hitchcock Wilson Moore Phillips Rutledge Lipka
Woods Bailey Passano Tyler Bartlett George

Professors

HARRY W. TYLER, S.B., M. I. T., 1884; Ph.D., Erlangen, 1889; in charge of the Department.
Residence: 39 Gray Cliff Road, Newton Center.

DANA P. BARTLETT, S.B., M. I. T., 1886.
Professor of Mathematics. Residence: Boxford, Mass.

FREDERICK S. WOODS, ΨΥ, ΦΒΚ; A.B., Wesleyan, 1885; A.M., 1888; Ph.D., Göttingen, 1894.
Professor of Mathematics. Residence: 123 Sumner Street, Newton Center.

FREDERICK H. BAILEY, ΦΒΚ; A.B., Harvard, 1887; A.M., 1889.
Professor of Mathematics. Residence: 12 Idlewild Street, Allston.

NATHAN R. GEORGE, JR., ΘΔΧ, ΦΒΚ; A.B., Harvard, 1890; A.M., 1891.
Associate Professor of Mathematics. Residence: 73 Coolidge Street, Brookline.

LEONARD M. PASSANO, A.B., Johns Hopkins, 1889.
Associate Professor of Mathematics. Residence: 5 Park Vale, Brookline.

CLARENCE L. E. MOORE, B.Sc., Ohio State, 1901; A.M., Cornell, 1902; Ph.D., 1904.
Assistant Professor of Mathematics. Residence: 16 Irving Street, Watertown.

HENRY B. PHILLIPS, S.B., Erskine College, 1900; Ph.D., Johns Hopkins, 1905.
Assistant Professor of Mathematics. Residence: 63 Spring Park Avenue, Jamaica Plain.

JOSEPH LIPKA, B.S., Columbia, 1905; M.A., 1906; Ph.D., 1912.
Assistant Professor of Mathematics. Residence: 378 School Street, Watertown.

FRANK L. HITCHCOCK, A.B., Harvard, 1896; Ph.D., 1910.
Assistant Professor of Mathematics. Residence: Hillside Terrace, Belmont.

Instructors

GEORGE RUTLEDGE, Ph.D.

W. HAROLD WILSON, Ph.D.

Department of Economics



Shugrue Doten Dewey Christiansen Armstrong

Professors

DAVIS R. DEWEY, ΔΨ, ΦΒΚ; A.B., University of Vermont, 1879; Ph.D., Johns Hopkins, 1886; LL.D., University of Vermont, 1910; in charge of the Department. Residence: 2 Berkeley Street, Cambridge.

CARROLL W. DOTEN, ΦΔΘ, ΦΒΚ; Ph.B., University of Vermont, 1895.
Associate Professor of Economics. (Absent, Production Department, Emergency Shipbuilding Corporation.) Residence: 58 Garfield Street, Cambridge.

MARTIN J. SHUGRUE, B.A., University of Michigan.
Assistant Professor of Economics. Residence: 46 Massachusetts Avenue, Cambridge.

FLOYD E. ARMSTRONG, B.A., University of Michigan, 1914; M.A., University of Michigan, 1915.
Assistant Professor of Economics. Residence: 116 Jason Street, Arlington.

ERWIN H. SCHELL, ΘΔΧ; S.B., M. I. T., 1912.
Assistant Professor of Business Management. Residence: 238 Hemenway Street, Boston.

Department of Modern Languages



Meister Kurrelmeyer Plath Vogel Rivera Langley Erhardt

Professors

FRANK VOGEL, ΔΤ; A.B., Harvard, 1887; A.M., 1892; in charge of the Department. Residence: 95 Robinwood Avenue, Jamaica Plain.

ERNEST F. LANGLEY, B.A., Toronto, 1894; A.M., Harvard, 1900; Ph.D., 1909. Professor of French. Residence: 11 Whittier Street, Cambridge.

HERMAN R. KURRELMEYER, A.B., Johns Hopkins, 1899; Ph.D., 1902. Associate Professor of German. Residence: 206 Beach Street, Roslindale.

Instructors

OTTO E. PLATH, A.M.

FREDERICK W. C. LIEDER, Ph.D.

FRANK S. CAWLEY, Ph.D.

ARTHUR L. MCCOBB, Ph.D.

Department of English



Marks Hewitt | French Robinson | Crosby Pearson | Roberts | Seaver Aydelotte | Prescott Rogers

Professors

Henry G. Pearson, ΘΞ, ΦΒΚ; A.B., Harvard, 1893; A.M., 1914; in charge of the Department.
Residence: 140 Dudley Road, Newton Center.

Archer T. Robinson, A.B., Harvard, 1896; A.M., 1915.
Professor of English. Residence: 50 Woodcliff Road, Newton Highlands.

Frank Aydelotte, A.B., Indiana, 1900; A.M., Harvard, 1903; B.Litt., Oxford, 1908.
Professor of English. Residence: 36 Hawthorne Street, Cambridge.

Henry L. Seaver, ΦΒΚ; A.B., Harvard, 1900; A.M., 1914.
Associate Professor of English. Residence: 97 Merriam Street, Lexington.

Robert E. Rogers, A.B., Harvard, 1908; A.M., 1909.
Assistant Professor of English. Residence: 23 Pinckney Street, Boston.

Instructors

Percy Marks, A.M.
Penfield Roberts, A.M.
Frank L. Hewitt, A.M.
Winward Prescott, A.M.
William A. Crosby, A.M.
Allen French, A.B., S.B.



Professor CURRIER

Department of History and Political Science

CHARLES F. A. CURRIER, A.B., Harvard, 1887; A.M., 1888; ΦBK.
Professor of History and Political Science; in charge of the Department. Residence: 1 Webster Street, Winchester.

Assistant

LACEY D. CASKEY, B.A., Ph.D.



Major COLE

Department of Military Science and Tactics

EDWIN T. COLE, Major, U.S.A., Retired, AXA.
Professor of Military Science and Tactics. Residence: 81 Ivy Street, Brookline.

HARRY M. RUGG, Lieutenant, U.S.A.
Instructor in R.O.T.C.

Assistant

LEICESTER F. HAMILTON, S.B.



Coach KANALY

Department of Physical Training

ALFRED E. BURTON, Dean; in charge of the Department.
FRANK M. KANALY, Instructor in Physical Training.

Assistant

JOHN W. KILDUFF

United States School of Military Aëronautics

STAFF

A. L. Sneed, Major, U.S.A., *Commandant.*
Leon L. McGrady, Lieutenant, U.S.R., *Adjutant.*
W. A. Fleming Jones, *Supply officer.*
C. S. Butler, Captain, M.O.R.C., *Surgeon.*
Cecil H. Peabody, Professor of Naval Architecture,
President of the Academic Board.
Charles J. Emerson, *Dean of the School.*

INSTRUCTORS AND ASSISTANTS

Dean A. Fales, *Instructor, Aëronautical Motors.*
Alexander Matheson, *Instructor, Aëronautical Motors and Magnetos.*
Ellery C. Wood, *Instructor, Aëronautical Motors.*
George H. Davis, *Assistant Instructor, Aëronautical Motors.*
N. Charles MacDonald, *Instructor, Aëronautical Motors.*
Samuel P. Mills, *Instructor, Aëronautical Motors.*
Hilding N. Carlson, *Instructor, Wireless Telegraphy.*
Albert F. Murray, *Instructor, Signaling.*
Harold C. Weber, *Assistant Instructor, Wireless Telegraphy.*
LeRoy A. Swan, Lieutenant, U.S.R., *Instructor, Artillery Observation.*
A. E. Powell, *Assistant Instructor, Miniature Range.*
Russell H. White, *Instructor, Map Reading and Reconnaissance.*
Frank M. Kanaly, *Instructor, Calisthenics.*
Morris E. Kanaly, *Instructor, Calisthenics.*
Francis V. DuPont, *Instructor, Aviation.*
S. S. Mason, *Assistant Instructor, Rigging and Landing Gear.*
O. J. Gagne, *Assistant Instructor, Rigging and Landing Gear.*
Ralph H. Sawyer, *Assistant Instructor, Rigging and Landing Gear.*
Professor Robert DeC. Ward, *Instructor, Meteorology.*
Walter Humphreys, *Lecturer, Astronomy.*
G. R. Pierce, Lieutenant, U.S.R., *Instructor, Military Drill.*
Leicester F. Hamilton, *Instructor, Organization of Armies.*
Walter C. Wood, Lieutenant, U.S.R., *Instructor, Machine Guns, Bombs and Bombing.*
George W. Wyman, *Instructor, Machine Guns, Bombs and Bombing.*

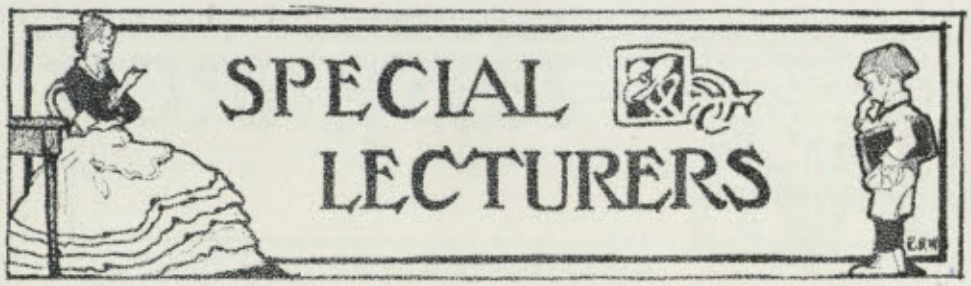
United States Naval Aviation Detachment

STAFF

Richard W. Cabaniss, Lieutenant Commander, U.S.N., *Commanding.*
Horace F. Fuller, Lieutenant, U.S.N., *Executive Officer.*
Albion R. Boynton, Ensign, U.S.N.R.F., *Head of the Department of Instruction.*
Robert Walcott, Ensign, U.S.N.R.F., *Head of the Department of Drill and Discipline.*
Robert H. McMeans, Surgeon, U.S.N.R.F., *Medical Officer.*
Cecil H. Peabody, *President of the Academic Board.*
Harrison W. Smith, *Dean of the Academic Board.*

INSTRUCTORS AND ASSISTANTS

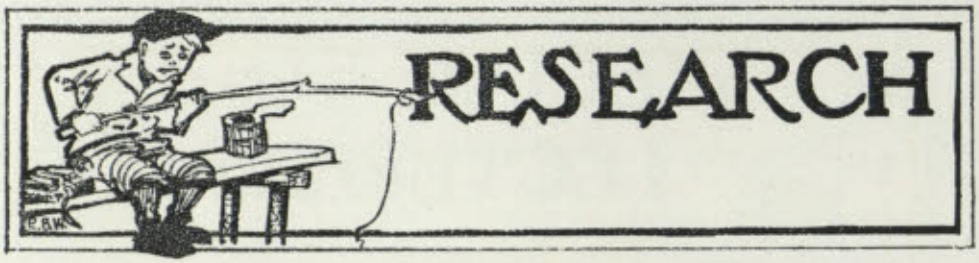
Dean A. Fales, *in charge of the Department of Seaplane Motors.*
Walter R. Herfurth, *Instructor in Aëronautical Engines.*
C. Lewis Merrill, *Instructor in Aëronautical Engines.*
Edward P. Warner, *Lecturer, Propellers.*
William Crepau, *Assistant Instructor in Motors.*
John H. LeCain, *Assistant Instructor in Motors.*
Adolph G. Hoelscher, *Assistant Instructor in Motors.*
George S. Murray, *Assistant Instructor in Motors.*
Hilding N. Carlson, Boatswain, U.S.N., *in charge of the Department of Electricity and Signals, Instructor, Wireless Telegraphy.*
Ellerton P. Whittier, *Instructor in Signaling.*
Arthur P. Southworth, *Instructor in Signaling.*
Nathaniel S. Marston, *Lecturer, Electricity.*
Everett P. Gordon, *Instructor, Signaling.*
Alexander Clemin, *in charge of the Department of Aëronautics, Instructor, Aviation.*
Ralph H. Sawyer, *Instructor, Rigging and Landing Gear.*
Edward W. Rounds, *Instructor, Rigging.*
Wallace S. Thomas, Ensign, U.S.N.R.F., *in charge of the Department of Gunnery, Instructor, Machine Guns.*
Ralph A. Fletcher, Ensign, U.S.N.R.F., *Instructor, Machine Guns.*
William R. McEwen, *Instructor, Machine Guns.*
Frederick H. Washburn, *Instructor, Machine Guns.*
Frank Zunino, Ensign, U.S.N.R.F., *Instructor, Machine Guns.*
Gordon B. Anderson, Ensign, U.S.N.R.F., *Instructor, Machine Guns.*
Frank Emery, Ensign, U.S.N.R.F., *Instructor, Machine Guns.*
George R. Hutchins, Ensign, U.S.N.R.F., *Instructor, Machine Guns.*
Paul Warner, Ensign, U.S.N.R.F., *Instructor, Machine Guns.*
Harold Fletcher, *Instructor, Machine Guns.*
C. B. Breed, Professor, *in charge of the Department of Navigation, Instructor, Navigation.*
Russell H. White, *Instructor, Navigation.*
Leicester F. Hamilton, *Instructor, Military Science.*
Harold E. Collins, *Instructor, Military Science.*
Frank M. Kanaly, *Instructor, Calisthenics.*
Morris E. Kanaly, *Instructor, Calisthenics.*
J. A. MacDonald, *Instructor, Calisthenics.*
Frank Waldo, *Professor of Meteorology.*



Homer Albers, LL.B.	Business Law.
William S. Franklin, Sc.D.	Physics and Electrical Engineering.
Charles Rice Gow, B.S.	Foundations.
Louis Caryl Graton, S.B.	Mining Geology.
Simeon Curtiss Keith, Jr., S.B.	Problems of Industrial Biology.
James Wallace Loveland, S.B.	The Manufacture of Soaps.
Robert Van Arsdale Norris, E.M.	Coal Mining.
Earle Bernard Phelps, S.B.	Public Health Engineering.
Eliot Putnam	Architectural History.
Odin Barnes Roberts, LL.B.	The Nature and Function of Patents for Invention.
John Arnold Rockwell, S.B., M.D.	Medical Adviser, Personal Hygiene.
Lincoln Frederick Schaub, A.M., LL.B.	Business Law.
William Gage Snow, S.B.	Heating and Ventilation.
Timothy Wilson Sprague, S.B.	Electricity in Mining.
William Lyman Underwood	Industrial Biology.
Salmon Willoughby Wilder, S.B.	Alumina and Alumina Compounds.
Frederick Adams Woods, M.D.	Theoretical Biology.

LECTURERS FOR THE CURRENT YEAR

Ralph Arnold, Ph.D.	The Geology of Petroleum.
Charles Value Chapin, M.D.	Municipal Sanitation.
Frederick Augustus Hannah, S.B.	Industrial Management.
Eugene Clarence Howe, Ph.D.	Physiology.
Frederick Jerome Hoxie, S.B.	Timber.
Thomas Gleason Richards, S.B.	Shop Economy.
Percy Goldthwait Stiles, Ph.D.	Personal Hygiene.
Sanford Eleazer Thompson, S.B.	Plain and Reinforced Concrete.
Henry Ellis Warren, S.B.	The Governing of Turbines.
Robert Spur Weston, B.S., A.M.	Public Health Engineering.



STAFF OF THE RESEARCH LABORATORY OF PHYSICAL CHEMISTRY

ARTHUR AMOS NOYES, Ph.D., LL.D., Sc.D.
Professor of Theoretical Chemistry. Director.
FREDERICK GEORGE KEYES, Ph.D.
Associate Professor of Physico-Chemical Research.
DUNCAN A. MACINNES, Ph.D.
Research Associate in Physical Chemistry.

STAFF OF THE RESEARCH LABORATORY OF APPLIED CHEMISTRY

WILLIAM HULTZ WALKER, Ph.D., Eng.D.
Professor of Chemical Engineering. Director. (Absent.)
HENRY PAUL TALBOT, Ph.D.
Professor of Inorganic Chemistry.
WARREN KENDALL LEWIS, Ph.D.
Professor of Chemical Engineering.

STAFF OF THE SANITARY RESEARCH LABORATORY AND SEWAGE EXPERIMENT STATION

WILLIAM THOMPSON SEDGWICK, Ph.D., Sc.D.
Professor of Biology and Public Health. Director.
SELSKAR MICHAEL GUNN, S.B., C.H.P.
Associate Professor of Biology and Public Health. (Absent.)
CLAIR ELSMERE TURNER, A.M.
Research Associate.

STAFF OF THE RESEARCH DIVISION OF THE DEPARTMENT OF ELECTRICAL ENGINEERING

ARTHUR EDWIN KENNELLY, A.M., S.D.
Professor of Electrical Engineering. Director.
COMFORT AVERY ADAMS, S.B., E.E.
Abbott and James Lawrence Professor of Engineering.
DUGALD CALEB JACKSON, C.E.
Professor of Electrical Engineering.
ERNEST WILDER CHAPIN, A.B.
Research Assistant in Electrical Engineering. Librarian.
RUSSELL N. HUNTER, B.S.
Research Assistant in Electrical Engineering.
CHARLES WHITMORE WHITALL, S.B., S.M.
Research Assistant in Electrical Engineering.

ADMINISTRATIVE BOARD OF THE SCHOOL FOR HEALTH OFFICERS

WILLIAM THOMPSON SEDGWICK, S.B., Sc.D., Chairman.
MILTON JOSEPH ROSENAU, A.M., M.D., Director.
GEORGE CHANDLER WHIPPLE, S.B., Secretary.

In Memoriam

JAMES MASON CRAFTS

President of the Institute 1898–1900

Died June 20, 1917

—

COLONEL THOMAS LEONARD LIVERMORE

Former Member of the Corporation of the Institute

Died January 9, 1918

—

HERBERT LANGDON WARREN

Former Professor of Architecture at Harvard University and the Massachusetts Institute of Technology

Died June 28, 1917

—

PAUL BRIDGMAN BOYD

Graduate Student in Electrical Engineering

Died April 9, 1917



The INSTITUTE YEAR

INSTITUTE YEAR

THE war found Technology established in her new quarters in Cambridge, with her laboratories enlarged and equipped with the most modern apparatus, her faculty composed of the country's foremost authorities in the field of applied science, and ample room and facilities to carry on extensive research. Immediately after the declaration of war, President Maclaurin formally put the Institute, its plant, equipment, and faculty at the disposal of the government, and informed the War and Navy Departments of Technology's resources.

The uncertainty and speculation which preceded the declaration of war against Germany had its effect on the undergraduates at the Institute. The student body became restless, and when it became evident that the United States was to take an active part in the war, the volunteer fever and the desire to render service to their government spread rapidly through the classes.

The day of the declaration of war a mass meeting was held in duPont Court. The Preparedness Committee, a sub-committee of the Institute Committee, had been appointed to ascertain the best policy for the undergraduates to pursue in case of war, and its report was presented at this meeting. The student body at the Institute was divided into two classes, seniors and under-classmen. The duty of the senior was to offer his services immediately, while the others were advised to serve only by preparing. President Maclaurin endorsed the recommendations of the committee, and added that it was likely that all seniors then eligible for a degree would graduate even if they entered the government service before the completion of their courses.

The Joint Committee on National Service

SOON after the beginning of the war, upon the suggestion of two upper-classmen, L. L. McGrady, '17, and E. P. Brooks, '17, President Maclaurin appointed the Joint Committee on National Service. It was composed of twenty-five members chosen from the student body and the Faculty, with Dr. Maclaurin as chairman, and was created for the purpose of collecting reliable information about military matters, and advising the undergraduates of new developments and of the best course to pursue.



The Joint Committee found it advisable to urge all undergraduates to remain at the Institute and complete their education before offering their services to the government. The administration had announced that it was its intention to urge all the cadets at West Point and Annapolis to complete their courses of study, and, as the policy of Germany had been to keep the technical students at their studies in spite of the great need for men, it was thought wisest to prevent, as far as possible, any hasty volunteering on the part of Technology undergraduates.

At first, the committee confined itself to the publication of bulletins concerning the military affairs of the nation and their application to the students. Later it became desirable to devise ways by which the members of the junior and sophomore classes could anticipate their future studies and prepare for the military courses which the War Department was expected to establish at the Institute. The results of the efforts of the committee along these lines were the establishment of the junior intensive summer courses at Technology and the sophomore military camp at Technology, Maine. The committee continued the dissemination of information until conditions at the Institute became normal, and then disbanded.

The Intensive Course in Naval Architecture

THE first special course of instruction to be undertaken by the Institute in preparing trained men for government service was that given in Naval Architecture. This course was prepared at short notice by Professor Peabody, head of the Institute department of Naval Architecture and Marine Engineering, and was planned to train men quickly to take positions as draughtsmen in the Navy and government shipbuilding yards.

Over fifty students, most of them members of the Class of 1917, enrolled for the course when it opened in the latter part of April. It was planned to give in ten weeks the principles of marine engineering and design, and to supplement this and the draughting with elementary instruction in the theory of launching, displacement and stability, eccentric loading, power, and speed of vessels. The course appealed particularly to the civil, mechanical, and architectural engineers who were well fitted by their previous training at Technology to undertake the work. It was a gruelling course of over eleven hours a day, six of which were spent in draughting, and the remainder in lectures and preparation. By the end of June the men were ready to be sent to the various navy yards, but orders came from the Navy Department that the men were to report to the Charlestown Navy Yard to take a four months' course in the shops of the Hull Division. Here they were employed in obtaining practical experience in construction, and each day's work was supplemented by lectures. At the end of the course a report was made on each man's ability, and they were rated accordingly. Nineteen commissions were issued, fourteen for assistant naval constructors with the rank of lieutenant, junior grade, U.S.N., and five for ensigns, U.S.N.R.F.

The instruction, with which Admiral Taylor professed himself as being highly satisfied, was undertaken by Professors Peabody and Owen and Mr. Burtner, in addition to their regular courses.

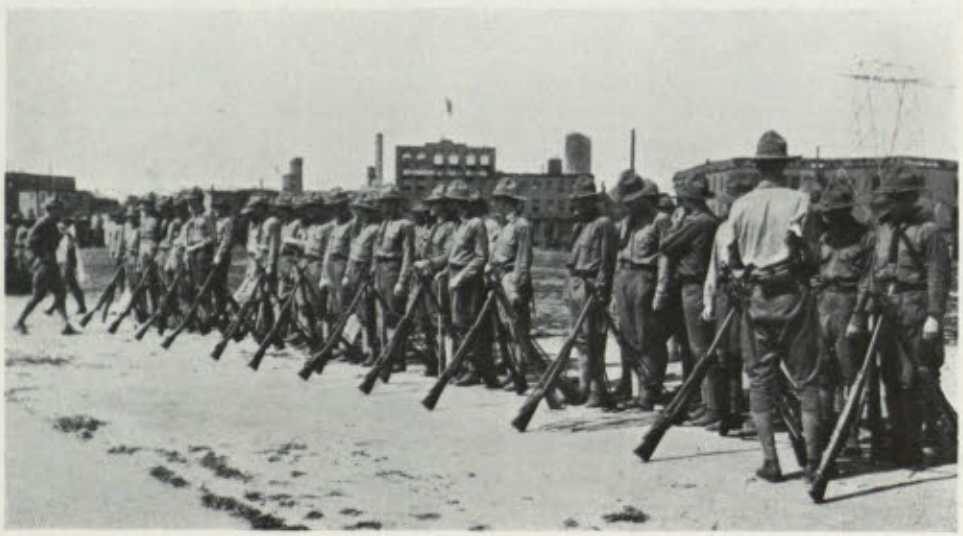
The first course met with such success that both private and government interests urged its repetition; and a similar course, to last fourteen weeks, was opened to graduates of all technical schools in February of this year. Some fifty students, mostly men from the senior class at Technology, enrolled in this course and were, by Faculty vote, excused from the second term's work of the fourth year. No theses are required of these men, but the satisfactory completion of the work and entrance into government service or industrial shipbuilding will entitle the men to their Institute degrees.

The M. I. T. Engineer Corps

THE Engineer Corps, which was first established at the Institute in 1915, developed in a short time from a small organization with no equipment and little support to a corps recognized by the government and supplied by it with ample equipment for a war-strength company. Before the declaration of war, Captain Downing, U. S. A., who had been detailed to Technology to instruct the engineers, and Captain A. S. Smith, U. S. R., of the Institute, took charge of the organization. Under their direction the company was divided into three sections each specializing in a particular branch of military engineering. The Bridge Section was under the command of Lieutenant H. L. Wirt, '18; the Fortifications Section was commanded by Lieutenant R. O. Lowengard, '17; and Lieutenant W. L. Dennen, '17, had charge of the Reconnaissance Section. Captain R. E. DeMerritt, '18, was in active command of the corps and was assisted by Lieutenant A. E. Keating, '17.

The work during the winter months was limited to several hours a week; during which time bridge models were constructed, fortifications were built in sand boxes, and considerable information was gained through numerous lectures and demonstrations. As soon as the weather permitted outdoor work was undertaken. An extensive line of fortifications were constructed in the rear of the Institute buildings, pontoon bridges were floated on the Charles, and several land-bridges were erected, notably a double-lock spar bridge.

The declaration of war against Germany aroused the interest of a great number of the undergraduates, and a surprisingly large number volunteered for camp instruction. The first encampment of the year was made the last week of April near Billerica. Here considerable outdoor work was accomplished by the corps. The entire section was mapped, the Concord was bridged by a forty-foot span bridge of pine logs from a near-by forest, and the camp was protected by a dam deflecting the course of the stream. The usual military guard was maintained at the camp and the men were kept continually under the strictest military discipline. Camping trips were limited by the regular schedule of instruction at the Institute;



M. I. T. Engineer Corps on the Drill Field

but nevertheless men doing the Engineer Corps work were excused on several occasions from Saturday morning recitations in order that the time in camp could be lengthened.

The work of the Engineer Corps was justified by the large number of its members who took the Army examinations soon after the opening of the war and, because of the training received, were successful in obtaining commissions.

The Cadet School for Ensigns

IN June, the Cadet School for Ensigns of the First Naval District was opened at the Institute with an enrolment of some sixty men. The extreme left wing of the Institute buildings facing the Charles was turned over for their use, and here, in the "U. S. S. Newton," so called from the chief name on the pylon of the wing which they occupied, they lived under as near navy conditions as is possible on land.

The school was under the command of Captain J. P. Parker of the National Naval Volunteers, and was one of the first of its kind established after the declaration of war. The course required four months' intensive schooling in navigation, seamanship, military drill, charting, signaling, tactics, gunnery, and other studies similar to those given at Annapolis, and fitted the men for ensigns' commissions in the Naval Reserve. Two navy cutters were moored in the Charles River Basin and served to give the cadets exercise at the oars and instruction in the art of sailing.

When, in the fall, the pressure upon the facilities of Technology for war courses and other government schools made the continuance of the School of Ensigns in the Institute buildings a difficult problem, the cadets were transferred to the Walker Memorial and finally to Harvard. Here, in October, the first class graduated and was detailed for active service at once.

Technology ranks second only to Harvard in the number of men graduated from this school with the first two classes.



The Naval Cadets

The United States Army School of Military Aëronautics

AS soon as it became obvious that one of the most important duties of the United States upon her entry into the war was to furnish an overwhelming preponderance of scouting and fighting aëroplanes, our lack of aviators became manifest, and the government at once looked about for schools at which to give student aviators preliminary training before they were sent to the flying stations. The Ground School of Military Aëronautics at Technology was one of the original six ground schools established by the Signal Corps of the Army for the instruction of aviators; others being opened at Cornell, Illinois, Ohio, Texas, and California Universities.

Professor Robert DeC. Ward, Alexander Klemin, and Dean Fales, at the time members of the Institute staff, took the federal oath and spent several weeks in Toronto studying the methods of aëronautical instruction given at the school of the Royal Flying Corps. Immediately after their return the Institute ground school was opened, the first squadron of twenty-five men reporting May 21, 1917. Each week an additional squadron averaging twenty-five men reported at the Institute for eight weeks' training, so that when the school was well under way Technology was housing, feeding, and instructing some two hundred picked men. On November 17, 1917, the number of men in a squadron was increased to thirty-eight, increasing the total number of students over fifty per cent. The entire right wing of the Institute fronting on Charles River Road was converted into offices for the staff and barracks for the cadets, who were mostly college men and student officers detailed from Plattsburg.

The first three weeks of each squadron's training was devoted mainly to military instruction with some special work like signaling. The last weeks were given mainly to academic work which was mostly practical, with only so much theoretical work as was necessary to give a proper grasp of the various subjects. Instruction was given in the science of flight, meteorology, aërial observation, aëronautical engines, machine guns, signaling, bombs, and radio-telegraphy. For this purpose the Signal Corps furnished a supply of airplane engines, machine guns, instruments,



The Army Aviators

and several aëroplanes. The Institute constructed two miniature ranges for the purpose of giving instruction to an entire squadron at one time.

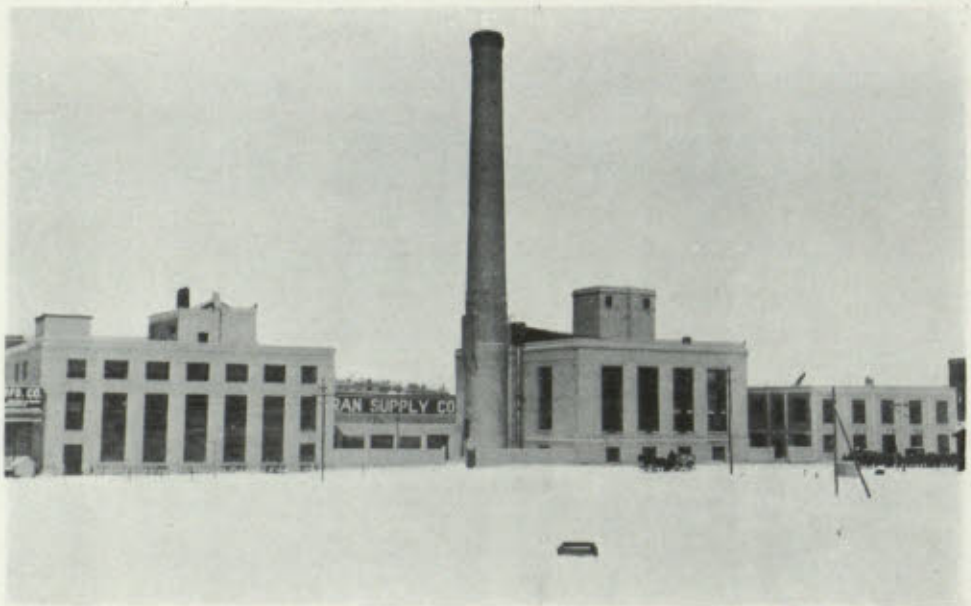
A map was built and placed in the basement of the hydraulic laboratory and was constructed to such a scale that when viewed from the balcony of the laboratory it appeared to the student the same as does the earth at an altitude of five thousand feet. The map was studded with small electric lights, each connected to a central switchboard which in turn was connected by a telegraph line to a series of observers' stations. Lights lighted on the map represented shells bursting, and the observer was required to telegraph back to the central station the estimated correction and direction. This system was found extremely successful in training the aviators in the estimation of distances.

Half of the instructing staff of the Ground School of Aviation were recent graduates of the Institute, and an Institute man was in charge of every department. Captain B. U. Mills, U. S. A., was the original commandant of the school, but was succeeded by Major A. L. Sneed, in the fall. The school soon established for itself the reputation of being the most difficult and most thorough ground school of aviation in the country.

The school disbanded January 19, 1918 to make room for the accommodation of the non-flying officers of the Aviation Section who were detailed to receive the instruction of the Institute.

The Establishment of Course VI-A

DURING the summer of 1917, a course in electrical engineering practice, conducted by the Institute in coöperation with the General Electric Company, was opened to students who had completed two years' work in electrical engineering at Technology. The period of coöperative training in this new course, which was numbered Course VI-A, occupies three calendar years, nine weeks of which are allowed for vacations. The first two years are exactly similar to the regular In-



The Power Plant

stitute course in electrical engineering. The last three, however, are divided equally between instruction at the Institute and practical training at the West Lynn or other works of the General Electric Company.

At present the course is limited to forty men a year. These are selected from the applicants by the staff of the Electrical Engineering Department and approved by the Management of the General Electric Company, from which they receive regular compensation for the work done in the shops. Each class is divided into two sections which exchange places of instruction at the end of every period of four months.

The course is designed primarily to give a thorough training in the technical and executive branches of the electrical manufacturing industries, and upon its successful completion the degree of Master of Science together with the Bachelor's degree will be conferred.

The Schools for Deck Officers

HENRY HOWARD, '89, director of recruiting of the United States Shipping Board, realized the great necessity of preparing men to take positions as deck and engine-room officers in the newly organized merchant marine, and, turning to the Institute for aid, left the training of the men entirely in the hands of Professors E. F. Miller, '86, and A. E. Burton.

Dean Burton assumed charge of the schools for deck officers, and under his direction the first school was established in Cambridge early in June. With characteristic dispatch Professor Burton opened similar schools throughout the country at the rate of nearly one a day, until a chain had been established extending along both the Atlantic and Pacific seaboards. The purpose of these schools was to give men who have had at least two years' sailing experience in any capacity sufficient training in the use of nautical instruments and the science of navigation to fit them to become first officers. An experienced instructor was put in charge of each of these schools. Some of these men were Institute instructors and former students, some instructors from other institutions, and many were seamen and navigators of experience.

After their applications for instruction had been approved by the Shipping Board, the students were given a short, intensive course in practice and theory, and after completing the course and passing the Steamboat Inspection Service examination they were required to serve for two months at sea in the capacity of junior officers. The number of men who have been trained in the forty or fifty schools is already well in the thousands.

1917 Commencement

THE commencement exercises of the first class to graduate from Technology in her new home were held Tuesday, June 12, 1917. At this time President Maclaurin conferred degrees upon three hundred and seventy-one students. Three hundred and thirty-two of these were for the degree of Bachelor of Science; thirty-three, the degree of Master of Science; two, the degree of Doctor of Engineering; and four, the degree of Doctor of Philosophy. Twelve Certificates in Public Health were also conferred upon students in the School for Health Officers.

The graduation exercises were held in the open in Lowell Court. President Maclaurin spoke to the graduates on their duty to their country during and after the war. He said it was a strange coincidence that both the old Technology and the new should have been born in the midst of a great war, and that whereas the graduates of the Institute had contributed much to the reconstruction which followed the Civil War, the world will expect even greater service from the Technology men of today.



1917 Commencement Exercises

Graduating members of the Class of 1917 who had left previous to Commencement Day for Plattsburg and other training camps, secured leave of absence and were able to attend the graduation exercises and the Senior Class Day festivities which had been arranged for the same day.

Owing to the fact that parchment was unobtainable, small blue paper certificates were given to the graduates instead of the usual diploma.

Following the simple commencement exercises the two flagpoles which had been erected at the entrances to the duPont and Lowell Courts were dedicated by the representatives of the donors: Dr. Henry P. Talbot, '85, for the Class of 1885, and Mr. John A. Curtin, '92, for the Class of 1892. In behalf of the alumni Mr. Francis R. Hart, '89, president of the Alumni Association, presented the alumni banner to Mr. John M. DeBell, '17, who accepted it for the Class of 1917.

Bishop Lawrence delivered the baccalaureate sermon in Trinity Church the afternoon of Sunday, June 10, and the class banquet was held at the Boston City Club the following day. Mr. J. W. Powell, president of the Fore River Shipbuilding Corporation, and Mr. J. P. Williams, editor of the Boston Transcript, made the addresses of the evening.

The Senior Battalion

IN order to give the Class of 1918 an opportunity to anticipate some of their fourth-year studies and thus prepare to complete their undergraduate courses earlier than would ordinarily be the case, the Institute conducted a series of special summer courses varying in length from six to ten weeks. Starting June 13, 1917, courses in the more important and general senior-year subjects were opened under the direction of regular members of the Technology Faculty. The schedule was so arranged that seniors could take three or four of these subjects during the morn-

ing hours and have the afternoon free to devote to the military work, which was an important part of the scheme.

Over one-third of the senior class registered for the course, and from eight in the morning until five in the evening the men were engaged in studying and drilling at the Institute. The hundred and seventy members of the Class of 1918, together with the numerous juniors who availed themselves of the opportunity to anticipate some of their studies, were organized into three companies under Captains H. F. Collins, '18, H. W. Fitch, '18, and W. A. Jones, '18. L. F. Hamilton, '14, former colonel of the Cadet Corps, acted as major of the battalion. The academic courses were intensified and required considerable preparation, and many of the men, in their anxiety to prepare themselves for government service as quickly as possible, undertook as much as fifteen hours' work daily.

The work of the battalion required three hours every afternoon including Saturday, and on several occasions extended over the week end. The first two hours were devoted to intensive infantry drill in open and close order and the last to a stiff course in calisthenic exercises. A special range was built on the estate of ex-Gov. W. Cameron Forbes at Norwood for the use of the Institute, and here instruction was given to the men in the operation of the Springfield rifle. On several occasions the entire battalion camped out over the week end on the Forbes estate, and received instruction in grenade throwing and open warfare in addition to the rifle practice. Tents were not available and therefore the men slept in the open without any cover other than that afforded by the cloth gauze which had been provided as a protection against the mosquitoes. Strict military discipline was maintained and actual field conditions simulated at the camp.

The work done during the summer months enabled many of the seniors to complete their undergraduate work before February, 1918. Theses were not required of these men, and upon entering government service they were recommended for their degrees.



Seniors Receiving Instruction in Grenade Throwing

Camp Cunningham

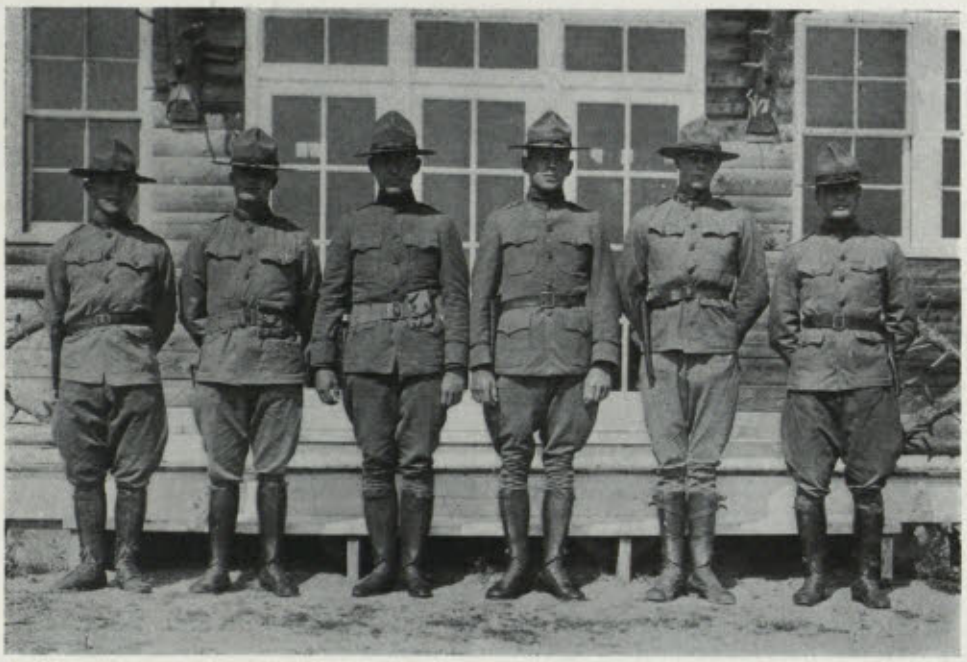
THE most important result of the efforts of the Joint Committee on National Service was the establishment of an undergraduate military camp at Technology, Maine. The principal object was to keep the sophomores engaged in military work throughout the summer, lest during the vacation they forget the advice of the Faculty and Alumni and unofficially that of the administration, and enlist. At first, the greatest obstacle in the path of the success of the project was the question of finances. Those men who were accustomed to work during the summer months, in order to make possible their return to the Institute the following year, could obviously not be easily persuaded to give up this opportunity and also pay their expenses at a camp. Mrs. Cunningham, widow of Edward Cunningham, '91, appreciating the necessity, generously subscribed to the support of the plan, and in memory of her husband the camp was named Camp Cunningham.

The plan of the Joint Committee was to enlarge the existing plant on Gardner's Lake, East Machias, Maine, which had been established by Technology for the purpose of giving practical experience in field and hydrographic surveying to students of civil and sanitary engineering, mining, and geology, and to open it to all sophomores for military engineering work. During the month of May every member of the Class of 1919 was personally interviewed by a member of the committee, the plan was explained, and in worthy cases financial aid was offered. The result was that a hundred and twenty students outside the required courses registered. The military camp was to open five weeks before the regular surveying camp and continue until a week before the opening of the next Institute year. A physical examination was given all the men enrolled, and as a result of this and the withdrawal of some of the men the number attending the first camp was reduced to ninety-two.

Monday, June 11, the first detachment left for Technology, Maine. This squad of men had volunteered their services to prepare the camp for the larger body



B Company Street, Camp Cunningham



Field Officers; Camp Cunningham

Lieut. Davis Lieut. Lewis Lieut. Lowengard Capt. Wirt Lieut. Banks Capt. Davidson

which was to follow, and, dubbing themselves The Dusties, they set about cleaning up the camp, erecting the tents, and assisting in the construction of the barracks and power house.

June 18, Company A left for Camp Cunningham. The student soldiers reported to Quartermaster F. A. Washburn, '18, in the Institute buildings during the morning and received their uniforms. They were then immediately put under the strictest military discipline, which they accepted with surprising ease and spirit. At noon the company was organized, and the first drill was held on Technology Field throughout the afternoon. In the early evening the company assembled at the Institute, formed for parade, and under the command of Captain H. L. Wirt, '18, marched to the North Station. Tuesday morning found Company A at East Machias, from where, after a cold breakfast, it marched to the shore of Gardner's Lake, a few miles distant. Here the soldiers were conveyed to the camp on the opposite side by ferry.

Major Russell, who had regularly been in charge of the engineering summer camp, acted as executive officer and outlined the course of instruction and the daily program for the engineers. The early summer rains had swamped the intended drill field, delayed the construction of the barracks, and washed out portions of the road to the camp; and, consequently, the first two weeks were devoted to hard manual labor repairing the damage done. As soon as another drill field, affording better drainage, had been cleared, drill began in earnest. At first the progress of the company seemed slow and discouraging, but after the first few days of camp life had tamed the high spirits of the men, drill improved rapidly, and soon the company executed its evolutions with remarkable precision, discipline, and bearing. The soldiers were anxious to learn military engineering, and

so Major Russell kept them at first at work repairing roads, building the rifle range, and cleaning up débris, to teach them at once the character of the work engineers are required to do, and military discipline. Hard work and long hours were the rule, yet the officers had no difficulty with the men, and the enthusiasm of the students continued in spite of the disagreeable character of the work.

Previous to the arrival of the company, officers had been appointed to take complete charge of the organization. The Chief of Staff was Lieutenant J. M. DeBell, '17. Lieutenant F. A. Washburn, '18, was appointed Quartermaster; Lieutenant A. E. Tuttle, '18, Ordnance Officer; and to the Technical and Engineering Staff were appointed Captain H. L. Wirt, '18; Lieutenant E. H. Clarkson, '16; Lieutenant R. O. Lowengard, '17; and Lieutenant K. S. M. Davidson, '19; all experienced officers.

The program which was followed for the first week outlined a strenuous day's work. First Call was blown at 6.15 A.M. Reveille was observed on the drill field fifteen minutes later. Mess came at 7.00, and then a short time was allowed before morning drill started at 8.00 o'clock. Drill or engineering work was continued without a break until Recall was blown at 11.30. Mess then came at 12.00 o'clock and was followed by the afternoon drill at 1.30. Recall was again blown at 4.30 P.M. Then followed the ceremony of Retreat and full-dress parade at 5.45. Mess came again at 6.00. Quarters was blown at 9.15, Tattoo at 9.30, and Taps at 9.45 o'clock. The student soldiers were busy almost every minute of the day, and during their few spare moments they had to clean their rifles, do police duty, launder their clothes, and prepare their uniforms for the full-dress parade at Retreat. As soon as the men had become accustomed to discipline and intensive work, General Order Number 4 appeared, announcing that because of the limited time and the great amount of work to be accomplished, it was necessary to lengthen



Students Receiving Instruction in Military Engineering

the hours of drill. The order read: "Beginning July 3, the following schedule of bugle calls and formations will become effective:

5.30 A.M.	First Call
6.00	Reveille
	Assembly
6.25	Mess
6.30	Assembly
7.00	Sick Call
7.10	Drill
7.15	Assembly
11.30	Recall
11.55	Mess
12.00 M.	Assembly
12.55 P.M.	Drill
1.00	Assembly
5.15	Recall
6.05	First Call
6.15	Assembly
	Retreat
	Colors
6.25	Mess
6.30	Assembly
9.15	Quarters
9.30	Taps



Captain Bland, R. F. A. C.

All the duties in camp were performed by the students, including kitchen police, which is usually heartily detested by the soldier because it is generally considered a disciplinary measure. The squads alternated at regular police duty every day, and that squad which was on duty was not required to take the regular routine drill, but had to assist in the construction of the power plant, the barracks, or the rifle range.

The drilling of the company was conducted along the lines universally adopted by the government at the Reserve Officers' Training Camps. The enlisted men were shifted within their squads, each man having an opportunity to act as corporal. The corporals were called upon from time to time to act as sergeants, the sergeants as lieutenants, and the lieutenants as captain, and every man had several opportunities to act in each capacity. Skeleton squads aided in instruction in complicated drill movements by increasing the size of the company, and gave more men an opportunity to command.

Under the direction of Ordnance Officer A. E. Tuttle, rifle ranges were constructed in a small valley three-quarters of a mile from the camp. Two well-protected butts were constructed, and firing points were located at distances of two and three hundred yards from the target.

Instruction was given in the construction and care of the Springfield rifle, and each man was given target practice on the range. Because the ammunition available was limited, sub-calibre rifles were used to some extent, and aiming practice was given on a miniature range before actual rifle practice was allowed.



A Company Marching under Difficulties, Camp Cunningham

Through the efforts of Major Russell, Captain Bland, a young officer of the Royal Field Artillery of Canada, who had seen two years' service in France, was secured to instruct at Camp Cunningham. He did not arrive until the middle of July, and by that time the students had become very proficient in both close and extended order infantry drill. The Canadian officer immediately set about instructing the men in Canadian artillery drill. A dummy field battery was constructed for the use of those taking the work, and Canadian commands and methods were practised until the drill was as perfect as the enthusiastic soldiers could make it. Considerable difficulty arose at first from the dissimilarity of the Canadian and American commands, but this was soon overcome, and such lengthy commands as "To the halt, on the outer flank, right form," were as easily understood and executed as the American translation, "On right into line." For practical training in artillery, a miniature Belgian village was built at the camp, and a small bore rifle mounted on a dummy fieldpiece was employed to attack it. The effects produced were realistic and were of considerable aid in understanding the theory of artillery attack and defence.

In the line of engineering, considerable instruction was given by lectures and explanations supplementing the practical work in the field. Besides repairing roads and digging trenches, the students constructed a strong derrick with material obtained in the field and a few crude tools.

The third division to arrive at Camp Cunningham came July 25. Some sixty men taking courses requiring summer-camp instruction arrived at East Machias and were met at the station by Captain Wirt, '18. Here they were immediately organized into a company, together with those men in Company A who were intending to take the regular surveying courses. Company B, to its surprise, was put under the same strict military discipline as the first company, but did not take it as well. Considerable dissatisfaction was expressed during its first days at the camp, but soon the organization realized the seriousness of the work they were doing, and, getting into the spirit of the camp, Company B rivaled the other in enthusiasm and proficiency.



Artillery Instruction with Dummy Field Piece

The barracks, which had been completed early in July, were turned over for the use of Company A upon the arrival of the new detachment, and the tents were occupied by the regular summer-camp students and the officers of both companies. The newly constructed power house supplied the barracks, the company streets, and the administration buildings with electric light, and this convenience added greatly to the comfort of the men. In a way, the barracks afforded more comfortable accommodations than the tents, because the canvas gave little protection against mosquitoes which during the early summer infested the district. Netting was supplied to all men occupying tents, and this gave some relief from the pest. Black flies were numerous during the early weeks of the camp and were particularly annoying during ceremonies and parades when attention had to be maintained; but these insects did not remain throughout the summer, and August found the camp rid of them.

With the arrival of the regular summer-camp students the schedule of work was considerably changed. Three options were allowed the Company A men. Captain Bland was to continue his artillery instruction and give a thorough course in artillery, guns, and mortars to those desiring to specialize along that line; members of the Institute instructing staff volunteered their services and were to give courses in Applied Mechanics which would make it possible for some of the sophomores to anticipate their third-year work; and the regular surveying instruction was to be given. Company B was required to take, in addition to the work in stream-gauging and surveying, approximately two hours' drill and military instruction daily. Company A, comprising those men not taking surveying courses, was organized under Lieutenant K. S. M. Davidson, '19, who was promoted to the rank of Captain. Corporal W. H. Banks, '19, and Sergeant C. P. Davis, '19, were raised to the ranks of First and Second Lieutenants respectively. Captain H. L. Wirt, '18, assumed command of Company B, assisted by Lieutenant R. O. Lowengard, '17, and former First Sergeant R. F. Lewis, '19, who became Second Lieutenant.

Company A devoted its mornings, after an hour's infantry drill, to Applied



Rifle Practice on the Range, Camp Cunningham

Mechanics or Artillery, and its afternoons to artillery instruction under Captain Bland, or elementary surveying. Company B executed close and open order drill for an hour and three-quarters every morning, and devoted the remainder of the day to practical field work in surveying. In the evenings both companies took part in the ceremony of Retreat and the battalion parade which often followed it.

The artillery school took up signaling, gun placing, ammunition, mounted and dismounted drill for artillerymen, mortars, etc. Under the direction of Captain Bland, Company A constructed an extensive line of trenches, similar in the smallest detail to those on the French and English battle front, with several dugouts, machine-gun emplacements, and observation posts. These were used in mimic warfare, and upon several occasions Company A defended the line during nights when rain storms flooded the trenches and, leaving several inches of mud and muck in the dugouts, made sleep impossible.

Company B, with only limited time to devote to military work, confined itself to close and open order drill. Some field campaigning was undertaken, and although it was not extensive, it was instructive and successful.

At the request of the people of East Machias, several exhibition drills were given in the town, and Company A, to which the honor of performing always fell, did surprisingly excellent work. The company was given a smooth, level field, and the men, who had been accustomed to drilling on rough and sloping ground, executed their movements with the briskness and bearing which drilling on uneven surfaces had developed.

The development of athletic teams was not given any serious attention because of the great amount of military work, but an informal baseball team was organized which was successful against East Machias. A series of games was played on Sundays between Companies A and B in which the former proved the winner. On July 4 and Labor Day athletic contests were arranged and run off before a crowd of spectators who came from the Machiases. The swimming and track events brought out a number of individual winners; the baseball game went to Company

A, and the tug-o'-war between the front and rear ranks of Company A was won by the latter. The minstrel show given in the East Machias town hall and the dance in Odd Fellows' Hall which followed it were very successful, and were as much enjoyed by the townsfolk as by the student soldiers. No attempt was made to stage an elaborate production because of the lack of time and finances; but an excellent vaudeville was presented by the students with the local talent at the camp.

The miners left Camp Cunningham for the Pike Hill Mine, Vermont, the last week in August. Here, under the direction of Mr. Barry of the Institute instructing staff, they surveyed all accessible parts of the mine; and working long shifts each day, including Sundays and Labor Day, they completed the course in short order and returned to Boston the second week in September. Because of the small number of men and the great amount of time devoted to underground surveying, neither military drill nor discipline was attempted; the students spending most of their spare time on the surface developing a team which finally succeeded in defeating the horseshoe champions at the mine. The miners' bunk house accommodated the men and, in spite of the cold and the lack of water and other conveniences, the stay there was enjoyed.

Company A, after almost three months in Camp Cunningham, returned to Boston September 9 and 10. Company B remained at Technology, Maine, until September 14, when the camp finally closed for the season.

The results of the summer-camp training were exceedingly gratifying. Efficient soldiers, and no doubt officers, had been developed by the military work, and the primary object for the establishment of the camp had been attained. Although several men left during the course of the summer to join the Royal Flying Corps of Canada, and three or four were drafted, the great majority of the students returned to Technology in the fall determined to continue their technical education and work seriously to prepare themselves for efficient war service. From the standpoint of the student the camp was a great success. The rigors of military life brought out the better qualities of each man, brought him into closer personal contact with his fellow student, and developed him physically. Captain Bland, who was assigned to the instruction of the Yale battery during the present year, proved a most popular officer, and he, together with the genial Dr. Adams, did much to keep up the spirit and enthusiasm of the men.



Aëroplane View of Trenches, Camp Cunningham

The Technology Ambulance Unit

THE first Technology Ambulance Unit to leave for service in France was organized in the spring of 1917 and sailed for Europe the latter part of June. Upon the arrival of the unit the men were outfitted and immediately detailed for service behind the lines.

Although the original intention of the unit was to enter the ambulance service of the French army, they found that there was an urgent need for men in the transport section. The unit therefore volunteered for transport service and was connected with the Reserve Transport Section of the French army. Excellent equipment was supplied by the French government, and at its orders the unit was shifted from place to place carrying ammunition and other supplies to the rear of the lines in those places where the fighting was heaviest.

The men who served with the first unit were: H. B. Allen, '18, R. M. Allen, '16, F. N. Breed, '12, L. B. Cahill, '19, K. H. Day, '17, D. Ely, '18, E. P. Greissmer, '20, I. G. Hall, '18, R. Henderson, E. V. Holden, '18, F. W. Holmes, N. Kohlhopf, F. L. Kline, '18, J. R. Milliken, '20, D. A. Reed, '18, G. W. Root, '19, F. B. Smith, D. G. Tarpley, '17, and C. N. Winslow, '18. Other Technology men left for ambulance and camion service soon after the closing of the school term, but were connected with other college units.

Upon the expiration of their terms of service most of the men entered the regular service of the Allies. Several of them have obtained commissions in the Transportation Division of the Quartermaster's Department, and an equal number have passed their brevet tests in French and American aëronautical service.

Technology ranks ninth among the colleges of the country in the number of volunteers in ambulance and transport service who went abroad before the United States had taken an active part in the war. Three of the Institute men who were in the ambulance section were awarded the Croix de Guerre for distinguished service in the field.



With the Tech Unit in France

R. M. Allen, '16 C. Ferguson, K. H. Day, '17 H. B. Allen, '18 F. L. Kline, '18 N. Kohlhopf

The Technology Club in Paris

IN June, 1917, Mrs. Edward Cunningham, whose husband was of the Class of 1891, volunteered to contribute funds for the establishment of a Technology Club in Paris to be the headquarters of Institute men abroad. Accordingly it was decided to send a representative to Paris with the first Technology Ambulance Unit, and Van Rensselaer Lansingh, '98, was asked to undertake the work. Upon his arrival in Paris, Mr. Lansingh investigated all possible plans, and as a result the Technology Club opened on July 15, 1917, at 7 rue Anatole de la Forge.

The club had accommodations for six men, which was at first amply sufficient because of the limited number of Tech men in Paris at one time. Rooms and board were provided at a minimum rate and all personal comforts were supplied for the guests, making the place more of a home than a club. Men from other colleges were welcomed and extended all privileges.

The success of the Technology Club in Paris, and the fact that representatives of some thirty American colleges availed themselves of the privileges of the club during the six months of its existence, hastened the organization of the American University Union in Europe. Men appointed from Yale, Princeton, Harvard, and Technology planned the Union and finally established it in the Royal Palace Hotel, which was secured for the duration of the war. Upon the opening of the Union in October, 1917, the Technology Club disbanded; and together with some of the larger colleges, Technology opened a bureau in the Union for the better accommodation of her men. Mr. Lansingh, '98, remained in charge of the Technology Bureau and also acted as Assistant Director and Business Manager of the Union. Robert M. Allen, '16, a member of the first Technology Unit, assisted in managing the Bureau, but when he was obliged to give up the work in February, Rev. George C. Gibbs, '00, went to Paris to take charge of Technology's interests at the Union. Under the direction of these three men the Technology Bureau has been of invaluable service to Institute men in service abroad and has kept in touch not only with them, but also with their parents and friends.

The Schools for Marine Engineers

UNDER the direction of Prof. E. F. Miller, the free schools of the United States Shipping Board for training marine engineers were established not only at Technology, but also at nine other technical colleges throughout the country.

Thirty-five men opened the first of the series of sections at the Institute on July 9; the students being mostly men with engine-room experience who required only a little more technical knowledge to fit them to become officers. For those with steam licences of any kind the course was four weeks' intensive work; for the others a longer course of instruction was given. The mechanical engineering laboratory served surprisingly well for the instruction of the men, although at first few marine engines were available. Instruction was given by means of lectures and laboratory demonstrations, and the students were required to make reports on their experiments with valve gears, pumps, refrigerating machines, strength of materials, propellers, and marine engines of all kinds.

The great need for competent marine enigneers in the merchant marine, the large salaries paid, and the great war bonuses have attracted seamen and have resulted in so large an enrolment that two or three successive sections of engineers are being instructed at each school at one time. Upon the completion of the course and the receipt of their licences from the United States steamboat inspection service, the graduates are free to hold officers' positions in the merchant marine.

The Navy Aviation Detachment

THE success of the first ground school of aviation at Technology resulted in the consideration of a plan to establish a similar school for naval aviation at the Institute. July 7, 1917, Secretary of the Navy Daniels addressed a letter to President Maclaurin asking whether a navy aëronautical school could be opened at M. I. T. Without hesitation Dr. Maclaurin sent an affirmative answer to the Navy Department, and after a concrete plan of training had been arranged, a ground school of naval aviation was established at the Institute. The first section of fifty students arrived at Technology on July 23, 1917, six days after the Navy Department had definitely decided to open the school, which was the first of its kind to be established in the United States.

As in the case of the school of army aviation, Professor Peabody was put in charge of the instructing staff. Lieutenant E. H. McKetterick, U. S. N., the first commandant of the school, was relieved by Lieutenant-Commander R. W. Cabaniss, U. S. N., after its organization had been completed.

The ten weeks' course of training at this school is divided into periods of four and six weeks. The first period is devoted to disciplinary instruction and signaling. The second period is devoted mainly to instruction in aviation, navigation, seaplane engines, meteorology, machine guns, aëronautical instruments, bombs, and radio-telegraphy. The normal number of each "flight" was fixed at sixty men, although this number was commonly exceeded, and a new section was sent fortnightly. The service has become so popular that a waiting list of four or five hundred volunteers, mostly college students and graduates, has been kept for many months in the Naval Aviation Headquarters.

At first the naval students were quartered in the upper floors of Building 2, but when the Walker Memorial was ready for occupancy the detachment was transferred to the new building. As this branch of the Service became popular the Navy Department increased the size of each unit detailed at Technology, and consequently it became necessary to secure more extensive accommodations than



Flight of Naval Aviators



New Aëronautical Laboratories

those afforded by the Walker Memorial. For this purpose the entire second floor of the Tech Block was leased by the Institute and opened as a receiving ship for the naval aviators who had had no previous military training.

The Navy Department has supplied the Institute with several naval aëroplanes and instruments, and specially constructed laboratories have been erected in the rear of the Technology buildings for the purpose of giving practical instruction. Upon the completion of the course of instruction at Technology the student flight officers are sent to various naval aviation stations for instruction in piloting before being commissioned in the Navy.

The Walker Memorial

THE movement for the erection of a memorial to the memory of President Walker was first started in 1898. At that time the rapidly growing Institute felt the need of a suitable place for the physical training of its students, and a committee was organized to obtain funds from the alumni for a gymnasium building to be dedicated to Francis Amasa Walker.

Francis Amasa Walker graduated from Amherst in 1860 and the next year enlisted with the 15th Massachusetts Volunteers. He served with distinction during the first years of the war and for "gallant and meritorious services" in the battle of Chancellorsville he received the brevets of colonel and brigadier-general. He was taken prisoner in 1864. After the war General Walker made a brilliant record as Director of the Ninth and Tenth Censuses, and in 1873 became Professor of Economics at the Sheffield Scientific School, from which position he was called in 1881 to the presidency of the Institute.

Under President Walker's administration the Institute developed from a struggling technical school to a great scientific university. His courage, energy, and particularly his sincere enthusiasm endeared him to the students and faculty alike, and the Tech spirit of to-day is largely due to his influence.

At first it was the intention of the committee to raise a hundred thousand dollars, but when it was learned that the Institute intended to move to Cambridge, the fund required was raised to half a million, so that a building might be erected which would house not only a gymnasium but also dining rooms and student offices, and be in keeping with the plans of the architect. This fund was raised through



The Walker Memorial

the generosity of the alumni and the final plans were drawn up by Mr. W. W. Bosworth, and accepted in December, 1915. The cornerstone was laid during the Dedication and Reunion of 1916, and it was expected that the building would be formally opened in September, 1917.

Just previous to the date set upon for the opening of the Walker Memorial, Secretary of the Navy Daniels paid a great tribute to the work of Technology by establishing at the Institute the first school of naval aviation. Four days were allowed the Institute to prepare quarters for the naval detachments. It was then decided that no more fitting dedication could be given to the Memorial than to open it to the service of the government which General Walker served so loyally in war and peace; and when, during August, 1917, the building was finally completed, it was turned over to accommodate the student officers of the Navy.

The building houses a great dining room, the largest in Greater Boston, besides several smaller grill rooms and refectories. There is a large gymnasium on the top floor, which is surrounded by numerous courts and offices originally intended for the activities; and there are several reading rooms, bowling alleys, and a rifle range.

For years the undergraduates have been looking forward to the completion of the Walker Memorial. Particularly during the last year, when student life was greatly handicapped by the lack of meeting places, and the activities were quartered in little chicken-wire coops in the basement of the main buildings, the need of the building was felt.

The administration of the entire building was to be left in the hands of the students, and it was to be devoted solely to the accommodation of the student body. The opportunity to use the building for a greater purpose, however, was

appreciated by the undergraduates, and they gladly gave up the Memorial to house the government students. The students have, however, been permitted to use the dining halls at certain hours, the rifle range and bowling alleys have been open to them, and the great hall has upon occasion been opened for dances, dinners, and meetings.

The Walker Memorial has accommodated an average of about six hundred government students at a time. The naval reserve cadets, radio operators, naval aviation inspectors, naval aviation student ground officers, naval aviation student flight officers, besides regularly enlisted men, have been quartered in the building in varying numbers.

No more fitting tribute could have been made to the memory of General Walker than to dedicate the building to the service of his country, and the Walker Memorial will be venerated by future undergraduates all the more because of the services it is now rendering.

The President's House

SIMULTANEOUSLY with the Walker Memorial, the new residence of President Maclaurin was completed and opened. The building was built in the angle of the dormitories and is shielded by them from the factories and commercial structures in the rear. It was modelled after one of the old Florentine villas and its composition follows the characteristic motive of the Institute buildings, — a high first story with subordinated windows above. Surmounting the roof is a two-story tower pavilion in which is built a unique suite of study and retiring rooms. The lines are extremely simple, and the light limestone treatment of the exterior contrasts pleasingly with the green of the formal garden in which the building is set.

The garden which separates the mansion from the dormitories was laid out by Miss M. K. Babcock, '08. It is elevated by high walls above the surrounding grades, and is screened from the dormitory itself by cedars and poplars.

The building was planned for the purpose of entertaining large gatherings as



The President's Mansion

well as a dwelling for the President. Its interior is handsomely outfitted and the simplicity characteristic of the exterior is maintained in its dignified and elegant decoration.

The residence was presented to the Institute by Charles A. Stone, '88, and Edwin S. Webster, '88.

Fall Registration

ONE of the war's most striking effects upon education is to be seen in the registration of students at Technology. Contrary to the experience of the great majority of educational institutions in the country, Technology opened the fall semester with only a ten per cent. decrease in her total enrolment. The entering freshman class was the largest in the history of the Institute, five hundred and four men reporting as against four hundred and fifty the year before. Last year's freshman class showed a gain of six per cent. over the number who were still at the Institute during the second term, four hundred and forty-three men registering with this class. The juniors suffered the greatest loss, only three-fourths of the Class of 1919 returning to finish their technical education. Eighty-six per cent. of the Class of 1918 returned to the Institute, but of the four hundred and eighty-four before the vacation only three hundred and twenty-five enrolled as seniors. The number of graduate students fell to thirty-nine, sixty per cent. of the previous year's registration.

The course in Naval Architecture showed an increase of sixteen per cent. Chemical Engineering had twelve per cent. more enrolled in the fall than heretofore; Civil Engineering showed a decrease of only one and two-tenths per cent.; Electrical Engineering lost two per cent.; and Engineering Administration six and a half per cent. The most surprising loss came in the course in Mechanical Engineering, which showed a decrease of twenty-one per cent.

A total of sixteen hundred and seventy students registered in September, 1917. A marked tendency to increased enrolment in the courses dealing with the necessary war sciences was evident in the distribution of this number.

The M. I. T. Cadet Corps

IN conformity with the requirements of the Acts of Congress of July 2, 1862, and August 30, 1890, Technology has for the past fifty-three years provided instruction in military tactics and science. The M. I. T. Cadet Corps, organized in 1865 in accordance with the stipulations of the Land Grand Act, has grown with the ever-increasing size of the entering classes from its skeleton company infancy to a regiment of two battalions. Under Major Edwin T. Cole, U. S. A., retired, as Commandant, the battalion, which had existed for some forty years, was expanded to a regiment in 1912 to meet the increased size of the freshman classes and to give more men experience in commanding. This fall the navy blue uniforms and light blue trappings which had become so unpopular were discarded and the regulation olive drab uniform of the Army was adopted. Six hundred men, mostly members of the freshman class, have been enlisted in the Corps this year. Commanded by experienced commissioned officers from the upper classes, they have taken the disciplinary instruction more seriously and have developed a more efficient unit than any first-year class of recent years.

The work of the Cadet Corps, which is required of all freshmen who are American citizens, and all men in the first year of the Reserve Officers' Training Corps, is limited to three hours a week of close and extended order drill and instruction in the manual of the bayonet and ceremonies. Officers are appointed by the commanding student officer and upon the approval of the Commandant commissions are issued. It has been customary to pay the officers a small sum for their services out of the appropriation received by Technology under the Land Grant Act.



M. I. T. Cadet Corps, 1917

The Reserve Officers' Training Corps

ON the third of June, 1916, Congress passed an act "for making further and more effectual provisions for the national defense." Under this act numerous Reserve Officers' Training Corps have been established in the colleges of the country to train young men for temporary officers in the Army. At Technology two units of the Corps were established in the fall of 1917 by order of the Secretary of War.

Although Technology had applied for the establishment of several units of the Reserve Officers' Training Corps early in the summer, when the fall term opened no action had been taken by the War Department, and consequently no units were organized. The sophomores intending to register for the work of the Corps were advised to take the instruction given to the Advanced Battalion until official recognition had been given, and the freshmen as usual were required to enlist in the Cadet Corps. The upper-classmen were not eligible to join the R. O. T. C. because all the military instruction necessary could not be received prior to their graduation. Definite orders for the military work were issued by the government late in October; but official recognition was withheld until December, when an order came from the War Department authorizing the establishment at the Institute of a Coast Artillery and a Signal Corps unit of the Senior Division, Reserve Officers' Training Corps. As a result the Institute now requires that every student who is a candidate for a degree must take military work for two years, instead of one, as formerly.

The first year's instruction in the Reserve Officers' Training Corps is the same as that heretofore given to the Cadet Corps, and during the second year three hours weekly must be devoted to military work. Thereafter no further study is required, but those men desiring to continue the work and try for a commission in the Reserve must spend a minimum of five hours a week in the military studies prescribed by the War Department. Men enrolling in the Corps for their third and fourth undergraduate years will receive an allowance of thirty cents a day for rations and also a uniform, and will be expected to complete the work of the Corps.

Commissions will probably not be issued upon graduation, but the candidates will very likely be required to spend considerable time in a training camp in order to demonstrate their ability.

Lieutenant Rugg, U. S. A., has been assigned to the instruction of the second-year students of the Reserve Officers' Training Corps at Technology. The Coast Artillery unit, which is the larger of the two, takes all its military work under his direction. Instruction is given in seacoast engineering, military regulations and organization, military topography, and Coast Artillery drill. The Signal Corps unit, enrolment in which is limited to students in Courses VI and XIV, and to those who can take the prescribed electrical studies, devotes its time to the study of military topography, infantry drill, and field-signaling, in addition to the regular curriculum courses in electricity.

At present the number of freshmen who have necessarily had to enroll for two years' instruction in the R. O. T. C. is over five hundred and fifty, and two hundred and seventeen sophomores are taking the second-year instruction.

The Advanced Battalion

IN order to provide military instruction for those upper-classmen who were ineligible to join the Reserve Officers' Training Corps, the Department of Military Science organized the Advanced Battalion. Enlistment was voluntary, but a student who registered for the course was required by Faculty ruling to complete the work satisfactorily. Four companies were organized for the fall term. These were captained by experienced students, who held their positions indefinitely, while the positions of lieutenants and non-commissioned officers were filled by men from the ranks who exchanged commands from time to time. Numerous lectures on military subjects were given and considerable close and extended order drill was undertaken in order to maintain the discipline of the organization. Lieutenant André Morize, an officer in the French Army who had been detailed to instruct at Harvard University, lectured on trench warfare, preparation for attack and defense, and conditions of modern warfare. F. A. Washburn, '18, instructor in machine guns at the school of the Naval Aviation Detachment, explained the workings and characteristics of the various types of machine guns and their applications in battle. During the second term Major E. T. Cole, U. S. A., retired, delivered informal lectures on military organization and the principles of warfare.

The Naval Aviation School for Inspectors

LATE in November, 1917, a school for inspectors, run in connection with the Naval Aviation Detachment at Technology, was opened for the Navy Department. The primary purpose of the school was to train graduates of technical institutions of recognized standing to serve as inspectors of airplanes and aëronautical engines and material.

The school opened with fifty men, but subsequent enrolment brought the number up to seventy. The course was intensive, lasting only seven weeks, yet designed to cover all phases of engineering necessary in the manufacture of aircraft. The students, many of whom were men of considerable experience, were taught not only the details of gas engines and airplane construction, but also the elements of metallurgy and electrical engineering, the details of metallography, strength of materials, stresses, rigging, methods and precision of delicate measurements, and wing surfaces. Sufficient instruction in discipline was given to acquaint the men with close order drill and military courtesy. After the course of instruction was well under way the school was divided into two sections,



The Dormitories and the President's Garden

one specializing in airplane construction and the other in airplane motors. When the school closed on January 25, 1918, the thirty men who survived the examinations were given the rank of Chief Petty Officer and detailed to complete their courses of instruction under inspectors at aëronautical plants in Keyport, N. J., Buffalo, N. Y., Pittsburgh, Pa., and Washington, D. C., before receiving their commissions.

A second school was opened immediately after the close of the first, but with a decrease in enrolment. It is expected that similar schools will be maintained at the Institute until the need for technically trained government inspectors of aircraft has been met.

Harvard Coöperation and the McKay Bequest

FOR many years the problem of bringing Harvard University and the Massachusetts Institute of Technology into a relationship whereby they could jointly maintain a school of applied science, and strengthen by coöperation rather than weaken by duplication and competition their already established engineering departments, has been of considerable moment to the Corporations of the two institutions. At length in January, 1914, an agreement was made between Harvard and Technology. This provided that instruction in certain branches of engineering was to be given, through coöperation between the two institutions, in the buildings of the Institute and at the cost of a portion of the income of the Gordon McKay Bequest to Harvard University.

Gordon McKay had been a successful Cambridge manufacturer and inventor. He had come into contact with the officers of the University, and had taken an

interest in the development and growth of the Lawrence Scientific School during the ten years before his death in 1903. His will provided that after the payment of certain annuities, eighty per cent of the net income of his estate was to be paid annually to Harvard until the death of the last annuitant. The residue of the estate, estimated at $22,948,899.20, was then to be transferred to the University. The will provided that the income "be used to promote applied science, First, by maintaining professorships, workshops, laboratories, and collections for any or all of those scientific subjects which have or may hereafter have, applications useful to men and; Second, by aiding meritorious and needy students in pursuing these subjects."

The plan of coöperation between Harvard University and Technology assumed its final form in February, 1915. Its object was for the two institutions to combine in an arrangement to conduct courses leading to degrees in mechanical, electrical, civil and sanitary engineering, mining, and metallurgy, and in the promotion of research in these sciences. Harvard agreed to devote to the maintenance of the course "not less than three-fifths of the net income of the McKay Endowment." It was further understood that the education was to be left entirely in the hands of the Institute and conducted as a part of the present curriculum; that the Harvard professors in the engineering courses were to become members of the Technology Faculty; that the equipment possessed by Harvard was to be turned over to the Institute; that the President of the Institute was to be the executive head of all courses which came under the arrangement, and act as the agent of the University; that all students in these courses were to register at Technology only; and that all funds were to be expended through the bursary of the Institute after the approval of the appropriations by the Corporation of Harvard.

The plan was endorsed by high legal opinion, and it was believed that the results would be more in accord with Gordon McKay's provision for "pupils who have had no other opportunities for previous education than those which the public schools afford" than was the Harvard Graduate School of Applied Science.

Under the provisional agreement, instructors and students from each institution have been teaching and learning in both, and men upon graduating from the Institute in the courses of engineering which were included in the plan, were entitled to receive not only the degree of Technology but also that of Harvard. Four years of coöperation have produced results which proved highly satisfactory and encouraging to both institutions.

The trustees of the McKay estate withheld their approval to the proposed plan, and in order to assure itself of the validity of this agreement the Corporation of Harvard University asked for instructions from the Supreme Court of Massachusetts. In February, 1917, the case was presented to the court, and in October the case was argued. On November 27, 1917, Judge De Courcy handed down the opinion of the Supreme Court that the agreement was not in accordance with the intentions of Gordon McKay and that therefore it could not be lawfully carried out. It was the opinion of the Court however that "it may be assumed that a coöperative plan like that proposed would be advantageous to both of these great institutions by creating one school of applied science of the highest efficiency, with economy in expenditure and effort, to take the place of two competitive schools."

The opinion of the Supreme Court makes it necessary for Harvard and Technology either to devise some new system of coöperation which will be fully in accord with the intentions of Gordon McKay, or for the establishment by Harvard University of a separate technical institution. Plans to accomplish the former object are at present under consideration.

The Concentrated Undergraduate Courses

AT a special meeting of the Faculty on December 7, it was decided to give the Class of 1919 an opportunity to graduate earlier than would ordinarily be the case by shortening the required course by one term's work, and continuing the work without a break throughout the summer and winter months. Under this plan the juniors may graduate at the end of September or the beginning of October, 1918, anticipating their scheduled graduation by eight months.

The schedules of the various courses have been so arranged by the omission of certain non-professional subjects and the concentration and intensification of others, that almost an entire term's work has been dropped in each case. The more difficult courses, and those requiring more concentrated application on the part of the student, have been included in the work of the spring semester, while the others, and the greater part of the necessary laboratory work, have been postponed until the summer months. A week's vacation will necessarily have to be allowed between the terms for the correction of examination papers and the usual Faculty meetings, and in order to make this possible it has already been decided to omit the usual Christmas vacation in 1918. These plans do not effect the present freshman and sophomore classes, which will spend the summer as heretofore prescribed — either having vacation, surveying camp courses, or a short term in the chemical laboratory.

The plan of the Institute in establishing these concentrated courses is to prepare as rapidly as possible a considerable number of thoroughly trained young engineers for the service of the country, and to increase the number of graduates in a year. Although no definite action has been taken by the Faculty, it is expected, if the war continues indefinitely, that similar courses will be established for future classes. The standard of the work required for graduation has not been lowered by the new ruling, and men entering the Institute will be forewarned of the difficulty of the courses contemplated.

In a letter addressed to the members of the Class of 1919 on March 18, 1918, the Faculty stated that it was its intention to limit the privilege of graduation in the fall of 1918 to those candidates for degrees who are called into military or government service, or into industrial work which may be of direct service to the government, before October, 1918. Candidates for graduation not called by October, 1918, will continue their studies until January, 1919, unless called into service prior to that time. Special schedules will be arranged for this term, but the regular fourth year work will not be given during the first term of 1918–1919 and no fourth year work will be given in the second term. This decision makes it possible for those students who, because of nationality or physical disability, will not enter government service, to complete their entire course, not omitting those non-professional subjects from which the others will be excused.

Enlistment in the Engineer Reserve

THE ruling made by Provost Marshal Crowder, and approved by Secretary of War Baker in the latter part of 1917, exempted a considerable number of undergraduate students from military service while completing their technical training. The order, which has been incorporated in the Selective Draft Regulations, left the details to the Chief of Engineers but provided that "a proportion of students pursuing an engineering course in one of the approved technical engineering schools listed in the War Department, may enlist in the Enlisted Reserve Corps of the Engineer Department, and the registrant shall be placed in Class V on the ground that he is in the military service of the United States." The regulations

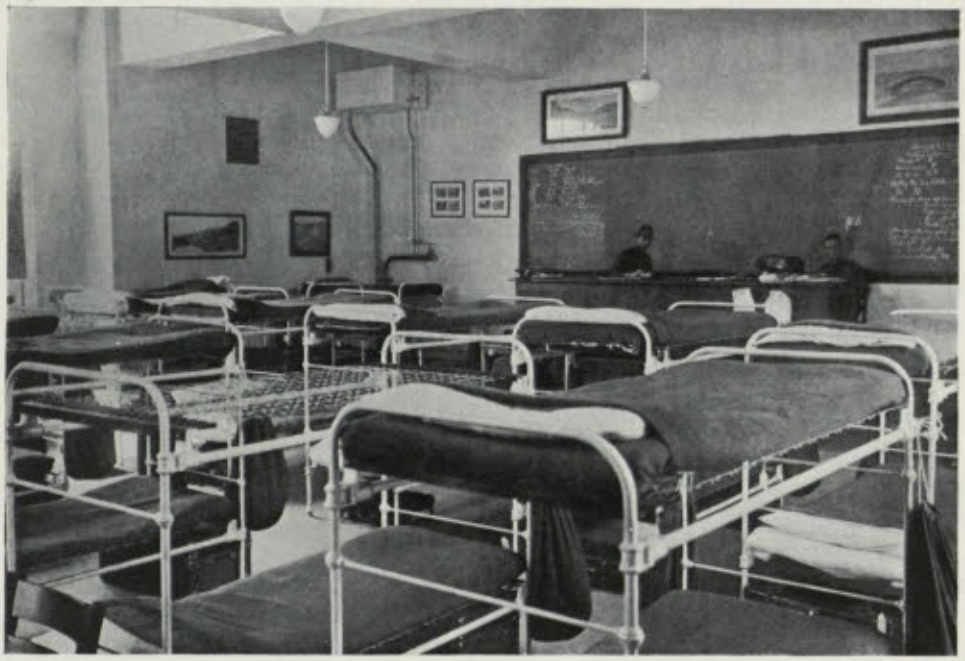
of the Chief of Engineers limit this privilege to those students to whom the institution issues a certificate, properly attested by the president of the school, stating that he is a regular student in good standing, is a candidate for an engineering degree, that in the judgment of the faculty of the school, based upon his academic record supplemented by his relations with fellow students and by observation of his instructors, he may fairly be regarded as deserving a place in the first third qualitatively of the young men graduating from the institution during the past ten years. These regulations were the outcome of the efforts of national engineering societies to prevent the drafting of students whose training, if completed, would be of great military value. As a result of this order, many undergraduate students at Technology who had registered in the first draft enlisted in the Reserve Corps of the Engineer Department. Upon their graduation from the Institute they automatically revert back to their former classification and may be called out immediately as enlisted men of the Engineer Reserve.

School for Ground Officers, Aviation Section, Signal Corps

THE great need of the United States Army for technically trained ground officers in the Aviation Section of the Signal Corps necessitated the establishment of a military aëronautical engineering school at the Institute. In order to accommodate the five hundred men who were expected to be continually under instruction at Technology, the Signal Corps temporarily discontinued its ground school for flight officers, and assigned the barracks in Building 1 for the use of the engineers. The first squadron of sixty men began its course of instruction on January 21, 1918. Thereafter an equal number of students entered every week until the number reached five hundred, the majority of which were men who had already been commissioned captains and lieutenants in the Signal Corps.

The average course of instruction requires eight weeks, but the length of time devoted to study by each student officer varies with his ability and previous experience. In addition to the eight regular squadrons which are under instruction, a preparatory section is maintained for those men who have had considerable practical experience but who have not had sufficient theoretical training to understand the principles of engineering. In the preparatory squadron instruction is given in algebra, the elements of physics and mechanics, and such other studies as will permit intelligent understanding of the engineering work which constitutes the most important part of the course. The regular program is divided into four distinct courses. One hundred and twenty-two hours are devoted to military subjects; sixty-eight to the study of airplane engines; sixty-five to the details of airplane construction, rigging, landing gear, wings, and stresses; and forty-two to the study of methods and means of transportation and particularly the automobile truck. Instruction is given by the faculty of the United States Army School of Military Aëronautics, which is composed largely of young Institute alumni, assisted to some extent by regular members of the Technology staff. Upon the successful completion of the course commissions are awarded to the non-commissioned men, and all are detailed for immediate service at the Army aviation stations.

It is the intention of the United States Army to maintain the present school until a thousand men have been graduated. These men will be placed in charge of all engineering work connected with the administration of the work of the Aviation Section, and will have charge of the stations and equipment of the flight officers. When the required number of aëronautical engineers have been trained the ground school for flight officers will be reëstablished at Technology.



Class-Room Barracks of Army Aviators

Second-Term Registration

THE final registration figures for the second semester of the Institute year showed a decrease of only twenty from the figures of the fall term. Although many of the fourth-year men who had worked throughout the summer months left Technology and entered government service at the end of the first term, the number lost was almost balanced by new men entering.

For the first time in her history Technology admitted a regular class in February. One hundred and seven picked men entered the Institute without examinations at the beginning of the second term, and by working throughout the summer months will be able to register as sophomores in September, 1918. The junior freshmen, although admitted without the usual entrance examinations, were required to bring a special testimonial of ability from the principals of their preparatory schools and were required to pass a physical examination proving they had the stamina necessary to complete the difficult and concentrated schedule proposed. In doing this, Technology has set aside precedent in order to train a greater number of engineers and scientists in the shortest possible time, without lowering in the least her high standards to scholarship.

The greatest decrease came in the senior class from which about sixty men graduated as the result of the work anticipated during the summer of 1917. Many members of the Class of 1918 entered the courses in Naval Architecture and Radio Engineering given at the Institute to prepare for positions in ship construction and the Signal Corps. The Faculty has advised all seniors taking these courses that, provided they had clear records upon enrolling, the satisfactory completion of these studies would be accepted in lieu of the regular work and thesis required for graduation. The total number registered now stands at sixteen hundred and fifty, eighty-five per cent of the normal enrolment.

The Course in Radio Engineering

AT the request of Major-General Squier, Chief Signal Officer of the United States Army, for technically trained men to oversee the instruction of the operators of the Signal Corps, there was established at Technology a special course in Radio Engineering. This course was started at the beginning of the second term of the present year and is being given at the Institute in coöperation with Harvard University. Professor A. E. Kennelly of Technology and Professor E. L. Chaffee, '07, of Harvard are in direct charge of the work. The object of the intensive course is to train advanced students in electrical engineering to be experts in all branches of radio engineering.

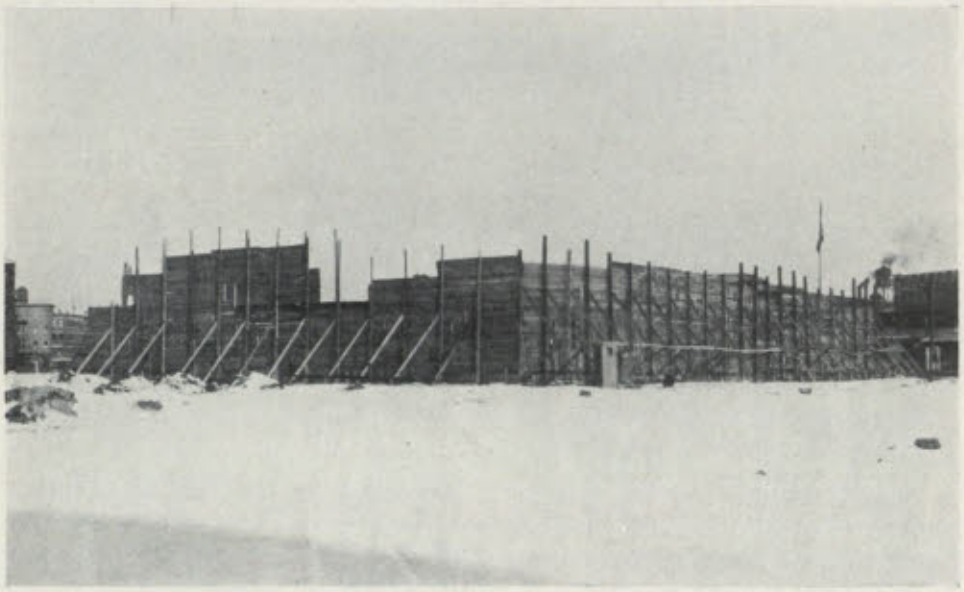
Sixteen fourth-year students, mostly members of Course VI, registered for the work. After passing the Army physical examination they were temporarily included in the Engineer Reserve Corps and placed in Class V according to the draft ruling. Although the students had not finished their undergraduate studies, the Faculty has decided that the satisfactory completion of the courses in radio engineering will be accepted in lieu of the regular curriculum work for graduation. When the course has been completed the students will be transferred to the Reserve Signal Corps, and although no definite statement has been made by General Squier, it is probable that commissions will be awarded.

The course is of fifteen weeks' duration, averaging thirty hours a week of classroom, lecture, and laboratory work. Particular stress is laid upon the more detailed and technical aspects of radio engineering, for the study of which the students had been prepared by previous undergraduate courses in electricity. Instruction is given in methods of signaling, the study of batteries, types of transmitters and receivers, and the construction and repair of apparatus. Alternating currents of radio frequencies are taken up with some detail and considerable time is devoted to the study of the distributing capacities of circuits, resonance, electron discharge in vacuum tubes, the use of vacuum tubes for receivers and transmitters, and airplane radio communication and apparatus. In addition to the theoretical work in radio engineering, the students must be proficient in sending and receiving messages before the completion of the course. It is probable that similar courses will be run by other technical colleges until the five hundred radio engineers have been trained.

Research

THE research laboratories and fellowships of Technology, always an important part of the work of the Institute, have been of particularly great service to the government during the past year. Without exception every member of the staff of the research laboratories, and every member of the Faculty and instructing staff with sufficient ability and time, has devoted his energy to research along lines of military value. The work now going on, and the results already accomplished are secrets which cannot be divulged; and the importance of which may never be known.

Particularly extensive research, which is known to have been of considerable importance, has been carried on by the laboratories of physical and applied chemistry. The work of these departments has been done not only at Technology, but also in Washington and France. Dr. William H. Walker, head of Course X, has been appointed Lieutenant-Colonel and Assistant Director of the Chemical Service Section of the National Army. Professors F. G. Keyes and H. H. Hanson, both Captains, are serving with the same organization in France. Commissions have been awarded to many other members of the staffs of the research laboratories, and they are carrying on their work both in America and France.



U. S. Government Research Station, M. I. T.

Organized research work is being conducted in all the departments at Technology, and it has been found necessary to increase the facilities for this work. A special station has been built on the Institute grounds particularly for experimental military research and is continually guarded by a detachment of the Coast Artillery Corps. The equipment of the laboratories has been increased, and new men have been added to the staffs in many departments.

The Alumni

SINCE the summer months of 1917 the War Service Auxiliary of M. I. T., which has been coöperating with the Technology Committee for National Service, has kept a list of all Institute alumni known to be in the military service of the United States. Of the ten thousand men who have been students at Technology since 1865, two thousand and thirty-four were known to be in the service on March 23, 1918. Of this number twelve hundred and seventy-two were commissioned as officers; one hundred and sixty-nine were attending the officers' training camps, and fifty-one were acting as inspectors and instructors. Four hundred and fifty-six were in foreign service; three hundred and twenty-four in aviation; three hundred and eighty-nine in the Navy; and fifty serving with the Expeditionary Forces in the Ambulance, Red Cross, or Y. M. C. A. Corps. It is estimated that approximately twenty-five hundred alumni are in industrial military service in France and America.

Major Donald M. McRae, U. S. A., a member of the Class of 1916, has been awarded the Cross of the Legion of Honor and the British Military Cross, for which he was recommended five times. William B. Poland, '90, has received the Cross of the Legion of Honor. Alan Stuart, '14, has won the British Military Cross. Norwood P. Johnston, '19, Gordon Stewart, '14, Kimberly Stuart, '19, and James M. White, '14, have been decorated with the Croix de Guerre.

Twenty-two former students are known to have died in service previous to March 23.



CLASSES

Class of Nineteen-eighteen



McFarland Porter Dinkins Kelly
Fletcher Van Kirk Collins

President
Robert Woods Van Kirk, Jr.

Vice-President
Earl Preston Collins

Secretary
David Meconkey McFarland

Treasurer
*Richard Alfred Wilkins
Saxton Woodbury Fletcher

INSTITUTE COMMITTEE

*Oliver Donn Burton
Philip Moss Dinkins
Kenneth Reid

EXECUTIVE COMMITTEE

*Henry Millet Blank
Thomas Patrick Kelly
Garnett Hartle Porter
*George Roland White

* Resigned.


PHIL
BILL
PHIL
OMAR
1918
SAX +
MOLLY
CARL
GRETCHEN +
WIN
GEORGE
FRED


KEN
BILL MONK
JACK
JOHN
GRUNY
ODY
TOM
FRITZ
GEORGE

Class of Nineteen Hundred and Nineteen



Sanford Coldwell Kenison Banks McClintic Parsons McCarten

President
*Carl Edison Thomas
William Howard Banks, Jr.

Vice-President
Howard Hale McClintic, Jr.

Secretary
Charles Jewett Parsons

Treasurer
John Sharples Coldwell

INSTITUTE COMMITTEE

George Clyde McCarten
Donald Dickinson Way
*Kenneth Andrews Wright

EXECUTIVE COMMITTEE

Arthur Cilley Kenison
David Curtis Sanford, Jr.
*Webster Batcheller Shippey

* Resigned

Past Officers of the Class

SOPHOMORE YEAR

President
George Franklin French

Vice-President
John Sharples Coldwell

Treasurer
James Wallace Gibson

Secretary
Guy Hammett Davis

Institute Committee

*Arlo Ellsworth Garnsey
Edward Francis Deacon
*Arthur Ernest Griffin
Webster Batcheller Shippey

Executive Committee

George Clyde McCarten
Arthur Ellsworth Page

* Resigned

FRESHMAN YEAR

President
Arthur Ernest Griffin

Vice-President
Laurance Melvin Dalton

Secretary
Céleste Johnson Brennan

Treasurer
Arlo Ellsworth Garnsey

Institute Committee

Oswald Cammann, Jr.
Kenneth Andrews Wright
*Alan Francis Winslow

Executive Committee

Guy Hammett Davis
James Ward Reis, Jr.

Athletic Association

Arthur Ellsworth Page
George Franklin French

* Resigned



Class of Nineteen-Nineteen

Edmund C. Adams
Franklin S. Adams
A. Alfaro-Moran
James H. Allen
Aubrey P. Ames
Percy D. Ames
Edward C. Anderson
Oscar W. Anderson
Ernest G. Arzapalo
Lewis J. Atwood, Jr.
Gordon W. Ayer
Clarence S. Babbitt
Frank M. Babbitt
Wayland S. Bailey
Fred P. Baker
Frederic A. Baker
Raymond C. Baldes
Marshall C. Balfour
William H. Banks, Jr.
Frederick W. Barney
Frederick M. Barnicoat
Herbert W. Barrett
Charles J. Barrios
Ray H. Bartlett
William H. Bassett, Jr.
Clarence W. Bates
George L. Baum
Ralph C. Bean
Leo E. Baeulieu
James H. Becker
Minor M. Beckett
George A. Beeche
Gilbert F. Beers
William F. Bennett, Jr.
Roderick L. Bent
Morris Berkowitz
Franklin A. Birmingham
Hernan Besa-Montt
Herbert W. Best

Arthur H. Blake
Roderic M. Blood
Henry B. Blumberg
Paul W. Blye
Robert S. Bolan
Frederick W. Boley
Ernest C. Bomar
George R. Bond, Jr.
Henry A. deBonneval
Willard E. Bonnell
William N. Boright
Thomas H. Bott, Jr.
Norman T. Bourke
William I. Bowditch
John D. Bowman
Will W. Boyer
Ingvald T. Braaten
Stanley B. Bragdon
Stanton H. Breed
Céleste J. Brennan
Benjamin H. Bristol, 2nd
Frederick S. Britton
Daniel H. Brown
Edward Brown
Lewis J. Brown
Louis A. Brown, Jr.
Malcolm C. Brown
Willis C. Brown
Samuel A. Brunelle
Henry J. Bruno
Leonard M. Bruton
Eliot H. Bryant
Perry B. Bryne
John E. Buckley, Jr.
Royden L. Burbank
Wilbur S. Burbank
Douglas M. Burckett
Brainerd C. Burnham
James H. Butler, Jr.

Harold M. Butter
Francis J. Callanan
Oswald Cammann, Jr.
Harry U. Camp
Dugald W. Campbell
George W. Cann
Joseph E. Cannell
Attilio Canzanelli
Percy W. Carr
John S. Carter
Lawrence W. Cartland
Ralph A. Cartwright
Richard F. Cashin, Jr.
Henry L. Cassidy
John E. Cassidy
Amasa H. Castor
Noel Chadwick
Lester VanD. Chandler
Charles A. Chayne
Frederick W. Childs
Walter E. Church
Frederick E. Claflin
John A. Clark
Myron H. Clark
Waldo B. Clark
Albert B. Clarkson
Bernard S. Cohen
Elizabeth Coit
William G. Coke
Lawrence C. Colby
John S. Coldwell
Francis T. Coleman
William C. Colley
Earl P. Collins
Helen B. Colson
Norman D. Conniers
Myles F. Connors
Anthony W. Contieri
Andrew A. Cook

Charles C. Cook
Jere H. Cook
Richard H. Coombs
Huron D. Corthell
John T. Cosgrove
Francis J. Coyne
Walter J. Creedon
Daniel N. Crowley
Kenneth M. Cunningham
John T. Curran
Margaret A. Curry
Ingraham Curtis
Loretta M. Dakin
Laurance M. Dalton
Alfredo C. Dandt
Blake Darling
Luis Dasso
Harold J. Daube
Kenneth S. M. Davidson
Victor Davidson
Cutter P. Davis
Guy H. Davis
Israel W. Davis
Edward F. Deacon
Andrew Deane
Raymond H. Dearden
Herman Dedichen
Theodore Dehon, Jr.
Horace W. Denison
Henry S. Derby
Thomas S. Derr
Leopold DeSalvo
Moacyr R. Dias
Frank H. Dillion
Harold E. Dimmick
Charles S. Donovan
Everett F. Doten
Angus D. Douglas
Charles W. Drew, Jr.



Class of Nineteen-Nineteen

Herbert L. Duffy
Robert W. Durland
Lewis S. Edgarton
Albert L. Edson
John T. Elliot
Fenton G. Elwell
William K. B. Emerson, Jr.
John M. Erving
Eli Ettlinger
Richard S. Everit
Robert D. Fairbanks
Herbert G. Fales
John J. Falkenberg
Robert L. Falkenberg
Charles J. Farist
Augustus P. Farnsworth
Edmund G. Farrand
Arthur E. Farrington
William J. Farrisee
Andrew J. Fassitt
Edwin S. Fields, Jr.
James R. Fisher
Harry H. Fisk
Ralph F. Flather
Jackson Fleckenstein
George G. Fleming
Ralph C. Flewelling
Edmund J. Flynn
Arthur R. Ford
Francis M. Fowler
Edward A. Freeman
Oliver F. Freeman
Wilbur H. Freeman
George F. French
Robert E. Friedlich
Oscar J. Fulreader
William B. Gagnebin
George P. L. Gail
Anthony J. Gallagher

Arlo E. Garnsey
Wynn Gaylord
Grant E. Gay
Hugo P. Geisler, Jr.
Ralph H. Gilbert
Henry C. Giles
Laurence A. Gillett
James W. Gibson
Ralph H. Gilbert
Henry C. Giles
John P. Gillion
Robert L. Gilmore
Frederick J. Given
Robert W. Gleason
Louis J. Goldstein
Alfonzo J. Gomez
Maurice E. Goodridge
Ross E. Gottard
Joseph H. Gould, Jr.
Grant D. Green, Jr.
Frederick W. Griebel
Arthur E. Griffin
Henry A. Grosscup
Joseph S. Guppy
Robert P. Hackett
Henry S. Hadley
William J. Hagan
George Halkiopulos
Daniel C. Hall
Roger T. Hall
Walter T. Hall
Russell Hamilton
William S. Hammond
Ralph J. Hannigan
Lewis E. Hartman
Arthur R. Harvey
James J. Haverty
James R. Hawkes
Maurice L. Hayden

Stuart J. Hayes
Russell A. Haynes
Conrad H. Hedin
Emil R. Helmrich
Carl S. Helrich
Charles M. Herrick
Herman A. Herzog
Frederick R. Hewes
Samuel Heyman
Ernest R. Higgins
Joseph Higgins
Edwin W. Hill
George B. Hirsch
Alfred G. Hoffman
Lincoln Hoffman-Pinther
Richard S. Holmgren
James Holt
Joseph W. Homer, Jr.
Benjamin M. Hooper
Frederick J. Hopkinson
Freeman H. Horton
Alfred W. Hough
Edward M. Howard
Homer V. Howes
Walter M. Howlett
Frank C. Hoyt
Kuang P. Hu
Chi Y. Huang
Eben S. Hubbard
Richard Van A. Hubbell
Thomas J. Hughes
Shao Y. Hung
Reginald S. Hunt
Frederick L. Hunter, Jr.
Charles W. Hyde
Roscoe H. Hyson
Charles H. Ilsley
George A. Inglis
Robert I. sley

Harold K. Ireland
George A. Irwin
Leslie A. Jackson
Jay E. Jacobs
Sidney J. Jacobs
Locke Le B. James
Paul G. Jenney
Harry P. Jewett
Alfred A. Johns
Arthur S. Johnson
Rogers B. Johnson
Norwood P. Johnston
Bertram F. Jones
Clyde C. Jones
Homer C. Jones
Ira P. Jones
George Kahn
John H. Kaiser
Everett E. Karg
John L. Karmire
Joseph Kaufman
Samuel A. Kaufman
Arthur F. Kaupe
Wendell H. Kayser
Clarence E. Keating
Scott Keith
Leo A. Kelley
Alton S. Kelsey
Bedros Kemkemian
Arthur C. Kenison
Ervin M. Kenison
Irving Kennard
Charles T. Kennedy
Harold R. Kepner
John W. Kilduff
Wirt F. Kimball
Donald K. Kitchen
Max Knobel
Carlos Krebs

Harry A. Kuljian
Sung S. Kwan
Raymond G. Lafean
John J. Landy
Wilfred O. Langille
Harold E. Langley
Sik K. Lau
Granville R. Law
John F. Lawagnino
Edgar H. Lawton
Edward C. Layng
William J. Leahy
Frederic M. Lee
Kuangtao T. Lee
Marshall B. Lee
Wee K. Lee
Roger M. Leland
Boudy Lemp
Gustave Levy
Robert F. Lewis
Shee-mon Li
Mariano F. Lichauco
Jacob Lichter
Charles C. Likins
Robert R. Litehiser
Charles E. Little
William H. Little
Thomas M. Lloyd
Francisco Lobos
Ralph C. Lockwood
Wilfred J. Long
Harold N. Loomer
Phillips W. Loomis
Milton A. Loucks
Donald H. Lovejoy
Arthur Lundquist
Dirk J. Luykx
George C. McCarten
Edward B. McCarthy
Lewis A. McCarthy
Howard H. McClintic, Jr.
Lawrence C. McCloskey
George W. McCreery
Arthur W. Macfarland
Andrew J. McGowan
Alan H. McIntosh
Harold W. McIntosh
William R. Mackay
Donald McKechnie
Walter R. McKenney
Malcolm R. McKinley
Howard S. MacKirdy
Eugene R. McLaughlin
Alexander M. McMorran
Robert B. MacMillin
Herbert L. McNary
George F. Magraw
Philip F. Maher
Israel Maizlish
Charles B. Maloy
Isadore Mandelbaum
Constantine C. Manny
Haroutune H. Mardoian
Fritz E. Markus
Arthur J. Marsh
Harold F. Marshall
George R. Martin
Jose F. Martinez
Marcial E. Martinez
Oscar S. Martinson
Ray S. Maxon
Elliot D. May
Albert Mayer
D. Oscar Mayer
Warren A. Maynard
Sheldon F. Mayo
Edward J. Mead
Francis L. Mead
John Meader
Robert S. Means
Herbert C. Merrill
John O. Merrill
Leland H. Merrill
Roswell A. Merritt
Stephen A. Merselis
Maurice A. Michaels
George Michelson
Welsey B. Miller
James R. Milliken
David P. Minard
Henry A. Miner
Eugene Mirabelli
Robert W. Mitchell
Yoshihiko Mito
Harold C. Moberg
Robert A. Montgomery
Edward G. Moody
Bernard S. Moore
Clinton D. Moore
James R. Moore
Harold S. Morrill
Robert F. Morrison
Albert Morse
Lawrence J. Moylan
Adolf L. Müller
Harold F. Murphie
Dudley B. Murphy
John J. Murphy
Henry R. Murphy
William M. Murphy
Harold J. Murray
Herbert C. Muther
Robert B. Nathanson
John H. Nelson
Raymond Newcomb
Joseph S. Newell
Mason S. Noyes
Karl L. Nutter
Clarence L. Nutting
Arthur A. Obert
James W. O'Brien, Jr.
Austin J. O'Connor
Arthur M. O'Connor
Aloysius F. O'Donnell
Felix L. Omelich
John W. Orcutt
Frank G. Osgood
William R. Osgood
Frederick E. Owen
Arthur E. Page
Sherwood Page
Russell S. Palmer
Chen-Chi Pan
Benjamin Parker
Frederick A. Parker
Meredith F. Parker
George U. Parks
Charles J. Parsons
Sol. M. Passell
Francesco Pastorino
Ellsworth G. D. Paterson
Webb C. Patterson
Carley H. Paulsen
Karl C. Payne
Harry L. Peach
Frederick L. Peart
Ralph H. Pease
Paul D. Peltier
Ernest F. Perkins
Donald C. Pero
Carl W. Phelps
Frank L. Philbrook
Edwin M. Pickop
Carl H. Pierce
Edward F. Pierce, Jr.
Margaret Pierson
William K. Pike
William K. Pinkney, Jr.
Pedro A. Piza
Herbert R. Pollys
Carl G. L. Polson
Clara Poppic
Francis D. Porcher
Ray Powers
Harold G. Pratt
Amos N. Prescott
Holden C. Priest
Harold M. Putnam
Lansing M. Quick
Bliss M. Ranney
Frederick J. Rasmussen
Arthur Ray
Armour L. Reid
James W. Reis, Jr.
Albert B. Reynolds
Frank P. Reynolds
Philip L. Rhodes
Alan G. Richards
Arklay S. Richards
Edward A. Richardon
Harold M. Richardson
Leonard A. Richardson
John L. Riegel
Radford W. Rigsby
Arthur Roberts
George W. Roberts
Walter C. Roberts
Karl F. Rodgers
Robert W. Rogers
Maurice H. Role
Henry Rommer
Burritt A. Root
George W. Root
Lawrence G. Ropes
Ernest C. Roth
John R. Rowe
Warren K. Russell
Whitney A. Russell
William P. Ryan
Edward L. Sache
Laurence D. St. John
Marion S. Sanders
David C. Sanford, Jr.
James C. Sansberry
Alexander H. Santos
Ralph Sargent
Eduardo E. Sarti
Earl E. Saunders
Russell H. Savage
Paul D. Scheeline
Albert P. Schefer
Ernest F. Schindler
Albert P. Schur
Ernest L. Schwartz
Edward E. Scofield
Robert W. Scott
Charles W. Scranton
James P. Scully
Howard H. Searles
Edgar P. K. Seifert
Hyman P. Selya
Cecil R. Seymour
Hyman N. Shapero
Philip M. Shaw
Timothy E. Shea
Theodore Shedlovsky
William D. Shepard
Benjamin H. Sherman
Edward M. Sherman
Samuel A. Sherman
Webster B. Shippey
Edwin C. Shultz
Ralph M. Silloway
Howard M. Simonds
William L. Skidmore
Grover C. Slator
Howard B. Sloan
Isidor Slotnik
Archer G. Smith
Edgar R. Smith
Frank F. Smith
Frederick G. C. Smith, Jr.
Gregory H. Smith
James H. Smith
Leighton B. Smith
Merritt P. Smith
Morton A. Smith
Russell S. Smith
Eugene R. Smoley
Frederick H. Smyser
Leon I. Snow
William B. Snow
Everett A. Soars
Lloyd R. Sorenson
Bertram H. Southwick
Arthur M. Southwick
Hyman G. Spector
Adolph F. Spiehler
Frederick C. Spooner
Jesse Stam
Arnold B. Staubach
Everett G. Stebbins
Richard B. Stehle
Marvin M. Stetler
John Stevens
Victor E. Stevenson
William O. Stevenson
Chester C. Stewart
Harry Stiller
Donald C. Stockbarger
Carlos A. Stöwhas
James M. Strang
James G. Strobridge
Kimberly Stuart
Edgar A. Stubenrauch
Charles R. Sullivan
Carl L. Svenson
Paul F. Swasey
Sherwood H. Taber
Charles H. Tavener
Carl E. Thomas
William P. Thomas
Phil R. Thompson
G. W. Thorne
B. Alden Thresher
James P. Thurber
Elwood M. Tillson
Joseph H. Tooley
Frank A. Travers
Ralph E. Tribou
Seiichi Uchida
Maximilian Untersee
Donald B. Upham
Raphael Van Neste
Louis F. van Zelm
Arthur H. Vignolles
William H. Vogt
Ernst F. D. von Voss
Arthur E. Wales
Albert C. Walker
Henry Wallerstein
Walter F. Walworth
John R. Ward
Frederick L. Warner
Alfred L. Warren
Harold C. Wasgatt
Donald D. Way
Leon H. A. Weaver
Eaton Webber
Dean K. Webster, Jr.
Francis A. Weiskittel
William G. Welch
Herbert E. Wellcome
Harold C. Wells
Robert H. Wells
Robert K. Wells
Charles E. Westland
Henry S. Weymouth
Herbert P. Wheeler
Murray M. Whitaker
Howard L. Whitcomb
Charles E. B. White
Horace D. White
Henry R. Whiton
Carl L. Whittemore
Russell J. Widdowson
Dean F. Willey
Abraham J. Williams
Ellen E. Williams
Ralph G. Williams
Russell E. Williams
Henry E. Wilson
Arthur Winebaum
Holley S. Winkfield
Donald B. Winter
George H. Wiswall, Jr.
Lester Wolfe
Louis Wolff
Kenneth F. Wood
Henry W. Wright
Kenneth A. Wright
Stuart E. Wright
Victor A. Wynne
Francis O. Wyse
Char F. Yao
Tek C. Yeh
Herbert F. Young
Alfredo Zubiria S.



PAUL



DOLLY



ARNOLD



KWAN

19



STAUBY FRANK
BILL MAX

19



HOWARD



NELLIE





BAT

Harry A. Kuljian
Sung S. Kwan
Raymond G. Lafean
John J. Landy
Wilfred O. Langille
Harold E. Langley
Sik K. Lau
Granville R. Law
John F. Lawagnino
Edgar H. Lawton
Edward C. Layng
William J. Leahy
Frederic M. Lee
Kuangtao T. Lee
Marshall B. Lee
Wee K. Lee
Roger M. Leland
Boudy Lemp
Gustave Levy
Robert F. Lewis
Shee-mon Li
Mariano F. Lichauco
Jacob Lichter
Charles C. Likins
Robert R. Litehiser
Charles E. Little
William H. Little
Thomas M. Lloyd
Francisco Lobos
Ralph C. Lockwood
Wilfred J. Long
Harold N. Loomer
Phillips W. Loomis
Milton A. Loucks
Donald H. Lovejoy
Arthur Lundquist
Dirk J. Luykx
George C. McCarten
Edward B. McCarthy
Lewis A. McCarthy
Howard H. McClintic, Jr.
Lawrence C. McCloskey
George W. McCreery
Arthur W. Macfarland
Andrew J. McGowan
Alan H. McIntosh
Harold W. McIntosh
William R. Mackay
Donald McKechnie
Walter R. McKenney
Malcolm R. McKinley
Howard S. MacKirdy
Eugene R. McLaughlin
Alexander M. McMorran
Robert B. MacMillin
Herbert L. McNary
George F. Magraw
Philip F. Maher
Israel Maizlish
Charles B. Maloy
Isadore Mandelbaum
Constantine C. Manny
Haroutune H. Mardoian
Fritz E. Markus
Arthur J. Marsh
Harold F. Marshall
George R. Martin
Jose F. Martinez
Marcial E. Martinez
Oscar S. Martinson
Ray S. Maxon
Elliot D. May
Albert Mayer
D. Oscar Mayer
Warren A. Maynard
Sheldon F. Mayo
Edward J. Mead
Francis L. Mead
John Meader
Robert S. Means
Herbert C. Merrill
John O. Merrill
Leland H. Merrill
Roswell A. Merritt
Stephen A. Merselis
Maurice A. Michaels
George Michelson
Welsey B. Miller
James R. Milliken
David P. Minard
Henry A. Miner
Eugene Mirabelli
Robert W. Mitchell
Yoshihiko Mito
Harold C. Moberg
Robert A. Montgomery
Edward G. Moody
Bernard S. Moore
Clinton D. Moore
James R. Moore
Harold S. Morrill
Robert P. Morrison
Albert Morse
Lawrence J. Moylan
Adolf L. Müller
Harold F. Murphie
Dudley B. Murphy
John J. Murphy
Henry R. Murphy
William M. Murphy
Harold J. Murray
Herbert C. Muther
Robert B. Nathanson
John H. Nelson
Raymond Newcomb
Joseph S. Newell
Mason S. Noyes
Karl L. Nutter
Clarence L. Nutting
Arthur A. Obert
James W. O'Brien, Jr.
Austin J. O'Connor
Arthur M. O'Connor
Aloysius F. O'Donnell
Felix L. Ohmelich
John W. Orcutt
Frank G. Osgood
William R. Osgood
Frederick E. Owen
Arthur E. Page
Sherwood Page
Russell S. Palmer
Chen-Chi Pan
Benjamin Parker
Frederick A. Parker
Meredith F. Parker
George U. Parks
Charles J. Parsons
Sol. M. Passell
Francesco Pastorino
Ellsworth G. D. Paterson
Webb C. Patterson
Carley H. Paulsen
Karl C. Payne
Harry L. Peach
Frederick L. Peart
Ralph H. Pease
Paul D. Peltier
Ernest F. Perkins
Donald C. Pero
Carl W. Phelps
Frank L. Philbrook
Edwin M. Pickop
Carl H. Pierce
Edward F. Pierce, Jr.
Margaret Pierson
William K. Pike
William K. Pinkney, Jr.
Pedro A. Piza
Herbert R. Pollys
Carl G. L. Polson
Clara Poppic
Francis D. Porcher
Ray Powers
Harold G. Pratt
Amos N. Prescott
Holden C. Priest
Harold M. Putnam
Lansing M. Quick
Bliss M. Ranney
Frederick J. Rasmussen
Arthur Ray
Armour L. Reid
James W. Reis, Jr.
Albert B. Reynolds
Frank P. Reynolds
Philip L. Rhodes
Alan G. Richards
Arklay S. Richards
Edward A. Richardon
Harold M. Richardson
Leonard A. Richardson
John L. Riegel
Radford W. Rigsby
Arthur Roberts
George W. Roberts
Walter C. Roberts
Karl F. Rodgers
Robert W. Rogers
Maurice H. Role
Henry Rommer
Burritt A. Root
George W. Root
Lawrence G. Ropes
Ernest C. Roth
John R. Rowe
Warren K. Russell
Whitney A. Russell
William P. Ryan
Edward L. Sache
Laurence D. St. John
Marion S. Sanders
David C. Sanford, Jr.
James C. Sansberry
Alexander H. Santos
Ralph Sargent
Eduardo E. Sarti
Earl E. Saunders
Russell H. Savage
Paul D. Scheeline
Albert P. Schefer
Ernest F. Schindler
Albert P. Schur
Ernest L. Schwartz
Edward E. Scofield
Robert W. Scott
Charles W. Scranton
James P. Scully
Howard H. Searles
Edgar P. K. Seifert
Hyman P. Selya
Cecil R. Seymour
Hyman N. Shapero
Philip M. Shaw
Timothy E. Shea
Theodore Shedlovsky
William D. Shepard
Benjamin H. Sherman
Edward M. Sherman
Samuel A. Sherman
Webster B. Shippey
Edwin C. Shultz
Ralph M. Silloway
Howard M. Simonds
William L. Skidmore
Grover C. Slator
Howard B. Sloan
Isidor Slotnik
Archer G. Smith
Edgar R. Smith
Frank F. Smith
Frederick G. C. Smith, Jr.
Gregory H. Smith
James H. Smith
Leighton B. Smith
Merritt P. Smith
Morton A. Smith
Russell S. Smith
Eugene R. Smoley
Frederick H. Smyser
Leon I. Snow
William B. Snow
Everett A. Soars
Lloyd R. Sorenson
Bertram H. Southwick
Arthur M. Southwick
Hyman G. Spector
Adolph F. Spiehler
Frederick C. Spooner
Jesse Stam
Arnold B. Staubach
Everett G. Stebbins
Richard B. Stehle
Marvin M. Stetler
John Stevens
Victor E. Stevenson
William O. Stevenson
Chester C. Stewart
Harry Stiller
Donald C. Stockbarger
Carlos A. Stöwhas
James M. Strang
James G. Strobridge
Kimberly Stuart
Edgar A. Stubenrauch
Charles R. Sullivan
Carl L. Svenson
Paul F. Swasey
Sherwood H. Taber
Charles H. Tavener
Carl E. Thomas
William P. Thomas
Phil R. Thompson
G. W. Thorne
B. Alden Thresher
James P. Thurber
Elwood M. Tillson
Joseph H. Tooley
Frank A. Travers
Ralph E. Tribou
Seiichi Uchida
Maximilian Untersee
Donald B. Upham
Raphael Van Neste
Louis F. van Zelm
Arthur H. Vignolles
William H. Vogt
Ernst F. D. von Voss
Arthur E. Wales
Albert C. Walker
Henry Wallerstein
Walter F. Walworth
John R. Ward
Frederick L. Warner
Alfred L. Warren
Harold C. Wasgatt
Donald D. Way
Leon H. A. Weaver
Eaton Webber
Dean K. Webster, Jr.
Francis A. Weiskittel
William G. Welch
Herbert E. Wellcome
Harold C. Wells
Robert H. Wells
Robert K. Wells
Charles E. Westland
Henry S. Weymouth
Herbert P. Wheeler
Murray M. Whitaker
Howard L. Whitcomb
Charles E. B. White
Horace D. White
Henry R. Whiton
Carl L. Whittemore
Russell J. Widdowson
Dean F. Willey
Abraham J. Williams
Ellen E. Williams
Ralph G. Williams
Russell E. Williams
Henry E. Wilson
Arthur Winebaum
Holley S. Winkfield
Donald B. Winter
George H. Wiswall, Jr.
Lester Wolfe
Louis Wolff
Kenneth F. Wood
Henry W. Wright
Kenneth A. Wright
Stuart E. Wright
Victor A. Wynne
Francis O. Wyse
Char F. Yao
Tek C. Yeh
Herbert F. Young
Alfredo Zubiria S.



PAUL



DOLLY



ARNOLD



KWAN

19



STAUBY FRANK
BILL MAX

19



HOWARD



NELLIE





BAT

WEARERS ~ OF THE NUMERALS

FOOTBALL

Herbert William Barrett
Henry Joseph Bruno
Myron Harrison Clark
Albert Batchelder Clarkson
Cutter Pierce Davis
John Joseph Falkenberg
Robert Lawrence Falkenberg
Anthony Joseph Gallagher
James Wallace Gibson
Joseph Seaverns Guppy
Thomas Joseph Hughes
Reginald Stuart Hunt
Charles Winthrop Hyde
Robert Fairn Lewis
Leland Hawthorne Merrill
Edwin Bennett Murdough
Austin Joseph O'Connor
John Wesley Orcutt
Arthur Ellsworth Page
Frederick Jessen Rasmussen
James Ward Reis, Jr.
George Wells Root
James Bennett Scully
Webster Batcheller Shippey
Edwin Chester Shultz
James Gordon Strobridge
Carl Edison Thomas

TRACK

Marshall Coulter Balfour
Roderic Leslie Bent
Herbert Walter Best
Norman Douglas Conniers
William Becar Gagnebin
Maurice Elmer Goodridge
Herman Alfred Herzog
Chi Yen Huang
Charles Hale Ilsley
Leslie Allerton Jackson
Harry Parker Jewett
Ralph Cooper Lockwood
George Clyde McCarten
Lawrence Charles McCloskey
William Matthew Murphy
William Pinkney, Jr.
John Laurence Riegel
Robert Wesley Scott
Charles Wallace Scranton

TUG-O'-WAR

James Howard Becker
Frederick William Boley
Stanton Holway Breed
Charles Augustine Chayne
Frederick Evarts Claflin
Myron Harrison Clark
John Sharples Coldwell
Laurance Melvin Dalton
Kenneth S. M. Davidson
Everett Fitz Doten
George Franklin French
Samuel Heyman
David Oscar Mayer
Eugene Reginald McLaughlin
Alexander M. McMorran
Robert Burns MacMullin
Adolf Lancken Müller
Arthur Ellsworth Page
Sherwood Page
Russell Smith Palmer
Paul Desnoyers Peltier
John Laurence Riegel
Lawrence Darius St. John
William Pratt Thomas
Maximilian Untersee
Harold Clinton Wasgatt
Dean Kingman Webster, Jr.
Henry Stanley Weymouth
Francis Octavus Wyse

BASEBALL

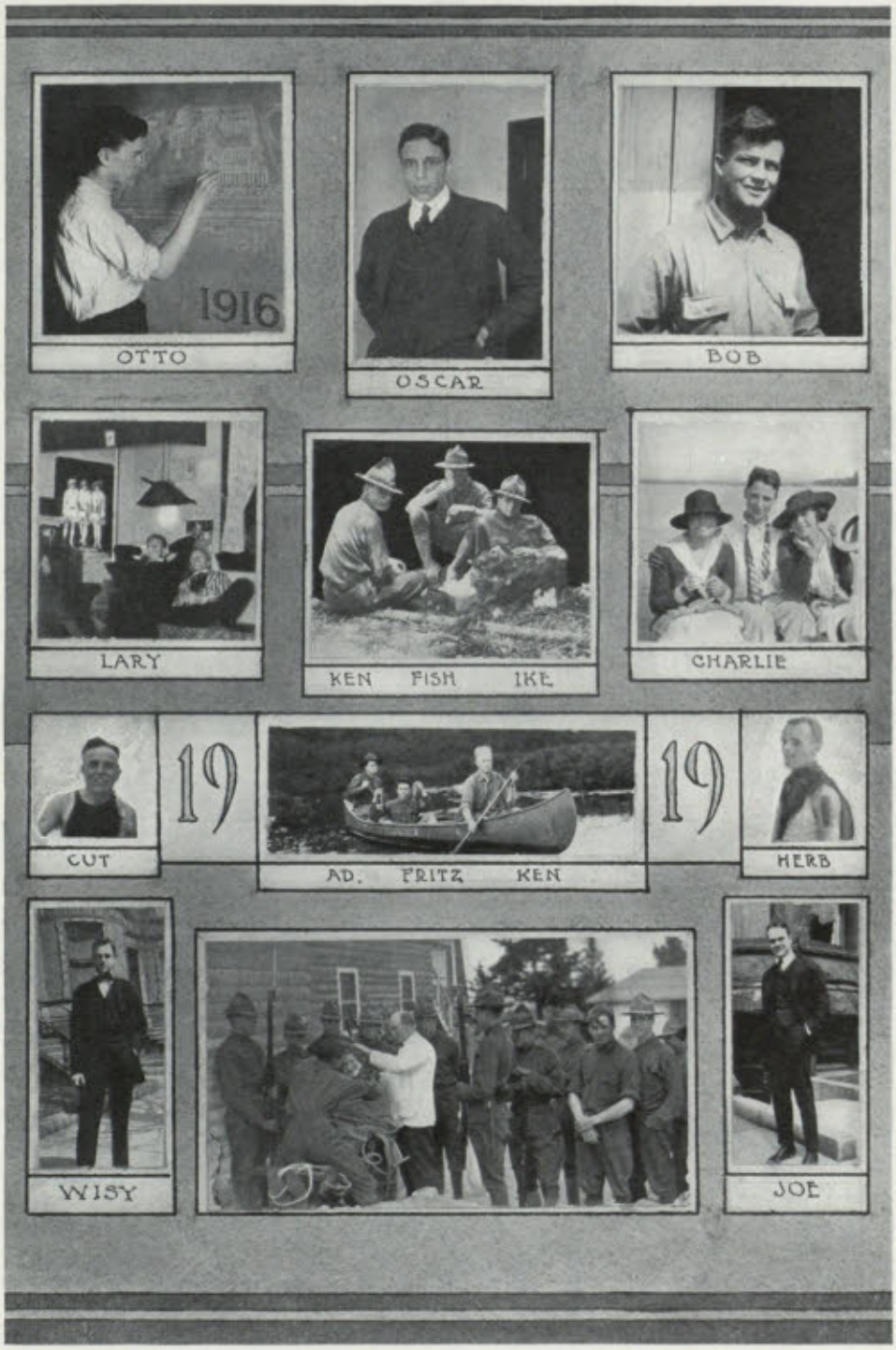
William Howard Banks, Jr.
Frederick William Boley
Henry Joseph Bruno
Horace Webster Denison
Herbert Lewis Duffy
William James Farrisee
Anthony Joseph Gallagher
Arthur Ernest Griffin
Thomas Joseph Hughes
Frederick Andrew Parker
William Pinkney, Jr.
Ernest Francis Schindler
Walter Frederick Walworth
Herbert Franklin Young

CREW

Harold Jack Daube
John Joseph Falkenberg
Robert Lawrence Falkenberg
Robert Prescott Hackett
Dirk Jacobus Luykx
Edwin Bennett Murdough
Benjamin Howland Sherman
Maximilian Untersee
Eaton Webber
Dean Kingman Webster, Jr.

WRESTLING

Cutter Pierce Davis
Fenton Groves Elwell
James Holt
George Andrew Inglis
Donald Wentworth Kitchin
Alexander M. McMorran
Edgar Reynolds Smith


1916
OTTO
OSCAR
BOB
LARY
KEN FISH IKE
CHARLIE
CUT
19
19
AD. FRITZ KEN
HERB
WISY
JOE

WEARERS OF THE INSTITUTE INSIGNIA

WEARERS OF THE T

Herman Alfred Herzog
George Clyde McCarten
Charles Wallace Scranton
Charles Edward Westland

WEARERS OF THE ΔTΔ

Roderic Leslie Bent
Herman Alfred Herzog
Leslie Allerton Jackson
Ralph Cooper Lockwood
George Clyde McCarten
Howard Hale McClintic
Charles Wallace Scranton
Charles Edward Westland

WEARERS OF THE ΔTΔ

Herman Alfred Herzog
George Clyde McCarten

WEARERS OF THE ΔTΔ

Richard Francis Cashin, Jr.
Carl Edison Thomas
Waldo Bishop Clark

WEARERS OF THE ΔTΔ

Paul Desnoyers Peltier
Carl Hilton Pierce
Burritt Alaric Root
Arthur Edward Wales
Charles Wallace Scranton
Paul Daniel Scheeline
Maximilian Untersee

WEARERS OF THE ΔTΔ

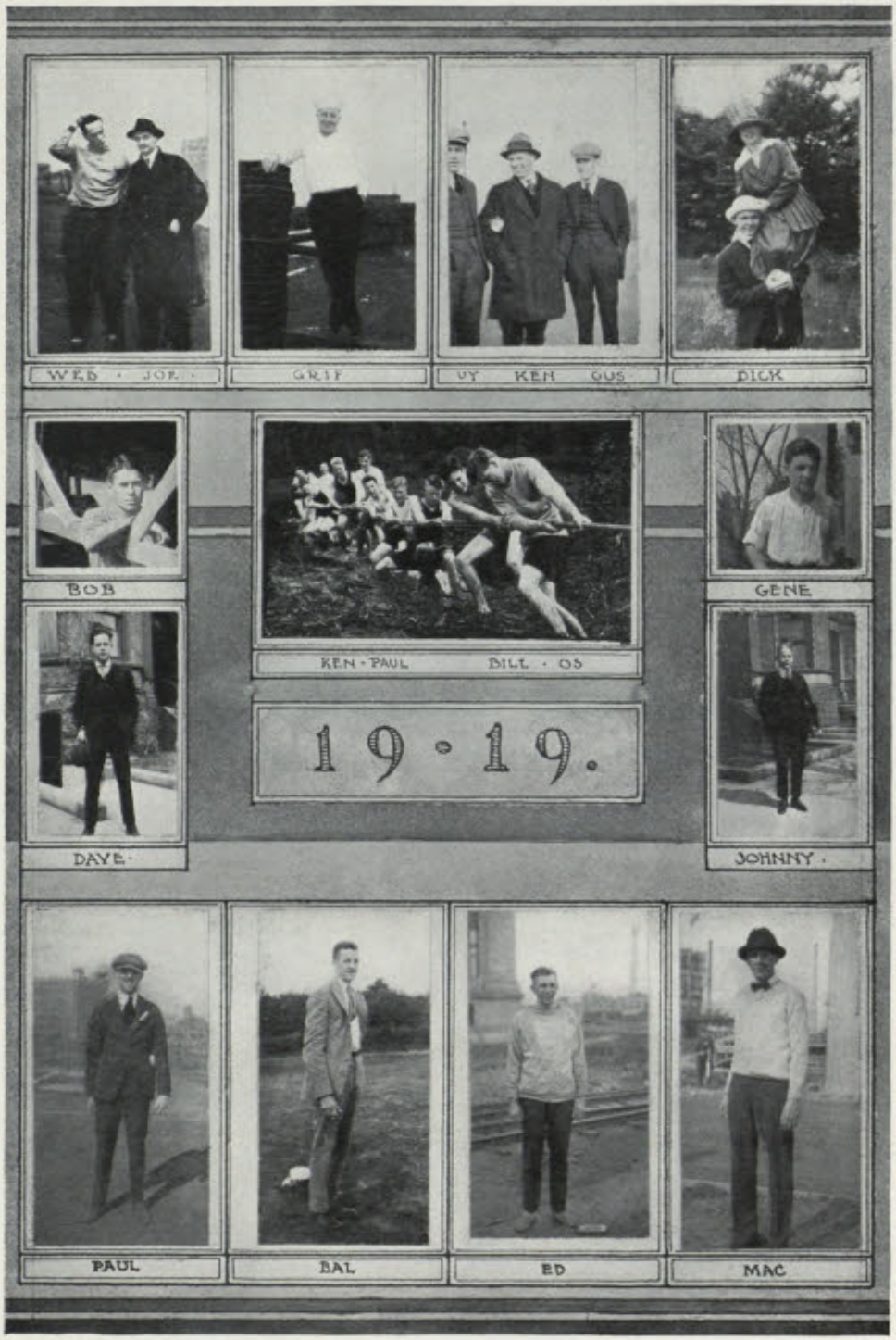
George Andrew Inglis
Eaton Webber

WEARER OF THE ΔTΔ

Wirt Fuller Kimball

WEARER OF THE ΔTΔ

Edward Leslie Sache


WEB · JOE ·
GRIF
UY KEN GUS
DICK
BOB
KEN · PAUL
BILL · OS
GENE
1 9 · 1 9.
DAVE ·
JOHNNY ·
PAUL
BAL
ED
MAC

Class of Nineteen-Twenty



Bradley Kellar Abercrombie Ryer Hines Casey

President
*Edward Vaughn Jones

Vice-President
Edwin Delamater Ryer

Secretary
*Robert Laird Turner

Treasurer
*Alan Luther Morse
John Jerome Hines, Jr.

INSTITUTE COMMITTEE

*James Lindley Dean
Frank Leo Bradley
John William Kellar

EXECUTIVE COMMITTEE

*Anthony Anable
Ralph Pidgin Abercrombie
Bartholomew Francis Casey

* Resigned

Class of Nineteen-Twenty-one



Trowbridge Officer | Worcester McEvoy | O'Hearn Stockwell | Norton Clark

President
Ernest Farnham Stockwell

Vice-President
Lawrence Wellington Trowbridge

Secretary
Richmond Sanford Clark

Treasurer
Joseph Henry McEvoy, Jr.

INSTITUTE COMMITTEE

*Garvin Bawden

Rollin Francis Officer

Edmund Francis O'Hearn

EXECUTIVE COMMITTEE

Arthur Warren Norton

John Newton Worcester



SENIOR PORTFOLIO.



Lawrence James Allen, Waltham, Mass.

Born July 27, 1894.
Mechanical Engineering.
Prepared at Waltham High School.
Mechanical Engineering Society (3, 4).
Entered Freshman Year.



Nemesio Alvaré y Gómez, ΠΔΦ, Sagua la Grande, Cuba.

Born February 15, 1896.
Mechanical Engineering.
Prepared at Colegio Nuestra Señora de Montserrat, Cienfuegos, Cuba.
Mechanical Engineering Society (2, 3, 4); Cosmopolitan Club (1, 2, 3, 4), Vice-President (3), President (4); Latin-American Club (2, 3, 4), Secretary (3); Catholic Club (1, 2, 3, 4).
Institute Committee (4).

Thesis: An investigation of the Holding Power of Lag Screws in Soft Woods.
(With F. G. Sanchez.)
Entered Freshman Year.



Harold Vivian Atwell, Hopedale, Mass.

Born July 12, 1896.
Electrochemistry.
Prepared at Hopedale High School.
Chemical Society (2, 3, 4); Electrical Engineering Society (4).

Thesis: A Government Electrochemical Problem.
(With J. M. Avery and C. C. Fuller.)
Entered Freshman Year.

Julian Miles Avery, ΚΣ, Framingham, Mass.

Born June 19, 1896.

Electrochemistry.

Prepared at Framingham High School.

K_2S; Chemical Society (2, 3, 4), President (4); Rifle Club (1, 2, 3).

Class Track Team (1, 2); M.I.T.A.A. (2); Technique Electoral Committee (2).

Walker Memorial Committee (3); Election Committee (3); Institute Committee (4); Track Team (1, 2, 3, 4); Wearer of the T.

Thesis: A Government Electrochemical Problem. (With H. V. Atwell and C. C. Fuller.)

Entered Freshman Year.



Malcolm Johns Baber, A.B., Pottsville, Pa.

Born June 5, 1894.

Naval Architecture and Marine Engineering.

Prepared at Hotchkiss School and Yale University, A.B.

Naval Architecture Society (3, 4); Aero Club (3, 4).

Enlisted for National Service, December, 1917.

Entered Junior Year.



Benjamin Darling Ballintine, Boston, Mass.

Born April 29, 1891.

Mechanical Engineering.

Prepared at Amherst College.

Enlisted for National Service.

Entered Sophomore Year.





Samuel Barron, Dorchester, Mass.

Born March 20, 1895.
Chemical Engineering.
Prepared at Mechanic Arts High School.

Thesis: The Distillation of Colorado Shale.
Entered Freshman Year.



Clarence Eustus Bassett, ΦΣΚ, Taunton, Mass.

Born April 20, 1895.
Engineering Administration.
Prepared at Taunton High School.
Chemical Society (2, 3); Corporation XV (3).
Entered Freshman Year.



Challen Morton Beattie, Quincy Mass.

Born July 5, 1895.
Mechanical Engineering.
Prepared at Chauncy Hall School.
Mechanical Engineering Society (2, 3, 4); Chauncy Hall Club (1); Rifle Club (2).
Dormitory Committee, Treasurer (4).
Entered Freshman Year.



Walter Thomas Biggar, Dorchester, Mass.

Born March 7, 1896.
Civil Engineering.
Prepared at Mechanic Arts High School.
Civil Engineering Society (2, 3).
Enlisted for National Service.
Entered Freshman Year.



Sidney Briggs Blaisdell, Providence, R. I.

Born November 9, 1895.
Mechanical Engineering.
Prepared at Providence Technical High School.
Mechanical Engineering Society (2, 3, 4).
Entered Freshman Year.



Paul Edward Blanchfield, Chicopee, Mass.

Born November 17, 1895.
Chemical Engineering.
Prepared at Chicopee High School.

Thesis: A Comparison of Various Tests for the Determination of the Value of Gas Engine Oils.
Entered Freshman Year.



Rudolph Beaver, Budapest, Hungary.

Born December 22, 1886.
Civil Engineering.
Cosmopolitan Club (1, 2, 3, 4), Secretary (2), Vice-President (4); Naval Architecture Society (1, 2); Civil Engineering Society (3, 4).

Thesis: An Experimental Investigation of the Strength of Miniature Skewed Arches.
(With D. N. Rubin.)
Entered Freshman Year.



Henry Adler Berliner, Washington, D. C.

Born December 13, 1895.
Mechanical Engineering.
Prepared at McKinley Manual Training School.
Class Crew (3).
Entered Junior Year.



Eli Berman, Boston, Mass.

Born May 17, 1898.
Electrical Engineering.
Prepared at Boston English High School.
Entered Freshman Year.



Leo Stanilaus Blodgett, Portland, Me.

Born June 27, 1897.

Naval Architecture and Marine Engineering.

Prepared at Portland High School.

Naval Architecture Society (2, 3, 4); Catholic Club (2).

Tug-o'-War (1, 2); Technique Electoral Committee (2); Institute Committee (1, 3).

Entered Freshman Year.



Aram Boghossian, Cesarea, Turkey.

Born April 20, 1893.

Civil Engineering.

Prepared at Robert College, Constantinople, and New York University.

Civil Engineering Society (3, 4).

Track Team (4).

Thesis: Discharge and Loss of Head in an Open Nozzle Hydrant.

Entered Junior Year.



Jacob Joseph Bolotin, Youngstown, Ohio.

Born July 2, 1896.

Mechanical Engineering and Electrical Engineering.

Prepared at Rayen School, Youngstown.

Mechanical Engineering Society (3, 4); Electrical Engineering Society (4); Chess Club (1, 2, 3); Menorah Society (2, 3, 4).

Thesis: Utilization of Rhode Island Coal.

Entered Freshman Year.



Nelson Arthur Bond, ΦΚΣ, Roxbury, Mass.

Born July 4, 1896.
Sanitary Engineering.
Prepared at English High School.
Beaver.
Technique Electoral Committee (2); Class Cross Country Team (1).
Entered Freshman Year.



Stuart MacLeod Boyd, Malden, Mass.

Born June 10, 1895.
Chemical Engineering.
Prepared at Malden High School.
Chemical Society (2, 3, 4).
Class Relay (1).
Thesis: Flow of Gas Mixtures in Capillary Tubes.
Entered Freshman Year.



George Seldon Brewer, ΚΣ, A.B., Westfield, N. Y.

Born October 8, 1891.
Chemical Engineering.
Prepared at Westfield High School and Oberlin College, A.B.
Pi Delta Epsilon; Chemical Society (3, 4); Cosmopolitan Club (3, 4).
Entered Sophomore Year.



Ernest Reuben Bridgewater, ΔΧΑ, Cuyahoga Falls, Ohio.

Born September 30, 1896.
Chemical Engineering.
Prepared at University of Akron.
Chemical Society (3, 4).
Entered Junior Year.



Thomas Vincent Brosnahan, Cambridge, Mass.

Born February 7, 1895.
Engineering Administration.
Prepared at Cambridge Latin School.
Corporation XV (3, 4); Catholic Club (3, 4).
Entered Freshman Year.



Donald Browne, Malden, Mass.

Born November 26, 1897.
Physics.
Prepared at Malden High School.
Entered Freshman Year.



James Marion Bugbee, ΘΔΧ, Boston, Mass.

Born April 14, 1896.
Mining Engineering and Metallurgy.
Prepared at Winchester High School.
Mining Engineering Society (2, 3, 4).
Wrestling Team, Manager (4).
Entered Freshman Year.



Francis Carroll Burke, Watertown, Mass.

Born November 25, 1896.
Architecture.
Prepared at Watertown High School.
Architectural Society (2, 3, 4).
Entered Intensive Naval Architecture Course, February, 1918.
Entered Freshman Year.



Oliver Donn Burton, ΣΧ, Asbury Park, N. J.

Born June 26, 1895.
Chemistry.
Prepared at Asbury Park High School.
Osiris; Beaver; Walker Club.
Tug-o'-War (1, 2), Captain (1, 2); Technique Electoral Committee (2); Junior Prom Committee (3).
Institute Committee (2); Budget Committee, Chairman (4); Inter-Fraternity Conference, Vice-President (3); Junior Battalion, Staff Captain (3); The Tech, Circulation Manager (4).
Entered Freshman Year.

Alexander Winton Caird, ΑΤΩ, Northampton, Mass.

Born June 15, 1895.

Civil Engineering.

Prepared at Northampton High School and Worcester Polytechnic Institute.

Masque; Civil Engineering Society (2, 3, 4), Secretary (3).

Tech Show, Assistant Publicity Manager (2), Publicity Manager (3).

Thesis: A Study of Recent Developments and Probable Trend of Block Signalling Practice.

Entered Intensive Naval Architecture Course, February, 1918.

Entered Sophomore Year.



Stuart Hill Caldwell, ΦΣΚ, Newton Center, Mass.

Born October 1, 1896.

Mechanical Engineering.

Prepared at University High School, Chicago, and Phillips Andover Academy.

Mechanical Engineering Society (2, 3, 4), Secretary (4); Pack and Paddle (3, 4).

Thesis: An Investigation into the Relative Characteristics of Rolled and Cut Threads on Soft Steel Bolts.

(With R. B. Brown.)

Entered Freshman Year.



Georgius Young Cannon, ΑΤΩ, Salt Lake City, Utah.

Born March 6, 1892.

Architecture.

Prepared at Salt Lake High School and University of Utah.

Architectural Society (2, 3, 4).

Glee Club (2, 3).

Entered Sophomore Year.





Charles Clinton Carpenter, Cambridge, Mass.

Born November 11, 1893.

Civil Engineering.

Prepared at Somerville High School.

Civil Engineering Society (2, 3, 4).

Tech Show, Assistant Business Manager (1, 2), Business Manager (3).

Thesis: An Experimental Determination of the Capacity of Island Pond, Hampstead, New Hampshire, with Respect to Water Power.

(With G. W. Thomas.)

Entered Freshman Year.



Percy Walcott Carr, ΦΒΕ, Lawrence, Mass.

Born September 28, 1896.

Chemical Engineering.

Prepared at Lawrence High School.

Osiris; K_2S; Chemical Society (2, 3, 4); Deutscher Verein.

Technique Electoral Committee (2); Technique Portfolio Editor (3).

Tech Show, Music (1); Glee Club (1, 2, 3, 4), Leader (2, 3, 4), Manager (2); Chairman Walker Pow-Wow Committee (3).

Entered Intensive Naval Architecture Course, February, 1918.

Entered Freshman Year.



Nino Tesher Catlin, ΑΦ, New Haven, Conn.

Born May 12, 1896.

Naval Architecture and Marine Engineering.

Prepared at Technische Hochschule, Karlsruhe, Germany.

Naval Architectural Society (4).

Tug-o'-War Team (2).

Mandolin Club (3, 4); Tech Show (3).

Thesis: Design of the Reinforcement for a Concrete Ship.

(With H. L. Wirt.)

Entered Sophomore Year.



Morris Leonard Caust, Roxbury, Mass.

Born June 26, 1895.
Electrochemistry.
Prepared at Brockton High School.
Chemical Society (3, 4).
Entered Freshman Year.



Samuel Harrison Chamberlain, Jr., ΦΣΚ, Boston, Mass.

Born May 3, 1893.
Mechanical Engineering.
Prepared at Newton High School and Dartmouth College.
Mechanical Engineering Society (3, 4).
Junior Battalion, Lieutenant (3); Advanced Battalion, Captain (4).

Thesis: Effects of Heat Treatment on Smokeless Barrel Steel.
(With W. H. Kayser.)
Entered Sophomore Year.



John Howe Chase, ΨΥ, B.S., Riverside, Cal.

Born November 5, 1894.
Civil Engineering.
Prepared at Riverside High School and University of Rochester, B.S.
Civil Engineering Society (3, 4).
Preparedness Committee (3).

Thesis: A Project for the Installation of Block Signals on the Boston and Maine Railroad, North Cambridge to Gleason Junction, on the Northampton Division.
(With W. Wyer.)
Entered Junior Year.



Chun-yang Chen, Shanghai, China.

Born December 7, 1893.
Mining Engineering and Metallurgy.
Prepared at Tsing Hua College, Peking, China.
Mining Engineering Society (3, 4); Chinese Club.

Thesis: Concentration of a Virginia Copper Ore by Tables and Flotation.
Entered Freshman Year.



Wei-yu Chiu, Wusih, Kiangsu, China.

Born February 2, 1894.
Electrical Engineering.
Prepared at Government Institute of Technology, Shanghai, China.
Electrical Engineering Society (3, 4); Cosmopolitan Club.
Entered Sophomore Year.



Byron Redmond Cleveland, Lawrence, Mass.

Born May 13, 1896.
Mechanical Engineering.
Prepared at Lawrence High School.
Mechanical Engineering Society (3, 4).
Entered Freshman Year.



Eaton James Clogher, Dorchester, Mass.

Born August 7, 1896.

Electrical Engineering.

Prepared at Mechanic Arts High School.

Electrical Engineering Society (3, 4); Catholic Club.

Entered Freshman Year.



Earl Preston Collins, ΑΧΑ, Cambridge, Mass.

Born October 20, 1896.

Chemical Engineering.

Prepared at Rindge Technical High School.

Masque; Chemical Society (3, 4).

Vice President (4); Governing Board (4); Class Dinner Committee (4).

Tech Show, Music (1, 2, 3, 4); Musical Clubs (2, 3, 4).

Entered Freshman Year.



Harold Ebert Collins, Newton Highlands, Mass.

Born September 16, 1897.

Engineering Administration.

Prepared at Newton Technical High School.

Corporation XV (3, 4); Tennis Club (3), Treasurer (3).

Class Baseball (2, 3); Class Election Committee, Chairman (2).

Cadet Corps, Lieutenant (2), Captain (3), Colonel (4); Junior Battalion, Captain (3).

Entered Freshman Year.



William Lovejoy Collins, Newton Highlands, Mass.

Born May 5, 1895.
Electrical Engineering.
Prepared at Newton Technical High School.
Electrical Engineering Society (3, 4).
Cadet Corps, Lieutenant (2), Captain (3), Major (4); Junior Battalion, Lieutenant (3).
Entered Freshman Year.



Lester Carlton Conner, Malden, Mass.

Born August 23, 1893.
Chemical Engineering.
Prepared at Malden High School.
Thesis: The Electrolytic Oxidation of Aneline.
Entered Freshman Year.



William Henry Costelloe, Saginaw, Mich.

Born September 19, 1891.
Electrical Engineering.
Prepared at Saginaw High School and University of Michigan.
Electrical Engineering Society (3, 4), President (4); Catholic Club (1, 2, 3, 4); Chess Club (1, 2, 3, 4), Vice-President (4).
Class Football (2).
Entered Freshman Year.



Philip Brooks Craighead, Malden, Mass.

Born January 5, 1895.
Civil Engineering.
Prepared at Malden High School.
Civil Engineering Society (2, 3, 4), Assistant Treasurer (3).
Tech Show, Chorus (2), Cast (3); Cadet Corps, Lieutenant (4).
Entered Freshman Year.



Ralph Joseph Crosby, Hartford, Conn.

Born November 7, 1895.
Mechanical Engineering.
Prepared at Hartford High School.
Entered Freshman Year.



Samuel Philip Crotwell, Newberry, S. C.

Born December 15, 1895.
Electrical Engineering.
Prepared at Newberry College.
Vectors.
Entered Junior Year.



Stanley Robinson Cummings, Wollaston, Mass.

Born January 25, 1897.
Mechanical Engineering.
Prepared at Quincy High School.
Mechanical Engineering Society (2, 3, 4).

Thesis: Investigation of the Weak Points of Small Firearms.
Entered Freshman Year.



Howard Mason Cyr, Malden, Mass.

Born July 11, 1896.
Chemical Engineering.
Prepared at Malden High School.
Chemical Society (2, 3, 4), Vice-President (4); Chess Club (2, 3).

Thesis: A Study of Certain New Compounds of Copper.
Entered Freshman Year.



Clarence Herschel Dagnall, Oak Bluffs, Mass.

Born November 7, 1895.
Electrical Engineering.
Prepared at B. M. C. Durfee High School, Fall River, Mass.
Electrical Engineering Society (3, 4); Rifle Club (2).
Entered Freshman Year.



Norman Dawson, Needham Heights, Mass.

Born January 30, 1896.
Sanitary Engineering.
Prepared at Needham High School.
Track Team (3).
Entered Freshman Year.



Robert Vincent Derrah, ΦΓΔ, Salt Lake City, Utah.

Born April 14, 1895.
Mechanical Engineering.
Prepared at Salt Lake High School.
Mechanical Engineering Society (3, 4).
Rifle Club (3).

Thesis: Comparative Tests on Chapman Valves.
(With A. L. Hamilton.)
Entered Sophomore Year.



Philip Moss Dinkins, ΧΦ, Montclair, N. J.

Born December 20, 1896.
Chemical Engineering.
Prepared at Montclair High School.
Osiris; Beaver; Chemical Society (2, 3, 4).
Technique Electoral Committee (2); Technique, Business Manager (3); Executive Committee (4).
Mandolin Club (1, 2); Musical Clubs, Manager (2); Crew, Manager (2); Interfraternity Conference, President (4); Institute Committee (4); Activities Committee, Chairman (4); Budget Committee, Chairman (4); Treasurer (4); M.I.T.A.A. (4).

Thesis: The Equilibria of the Higher Oxides of Manganese in Contact with Concentrated Sodium Hydroxide Solutions.
(With R. W. Van Kirk, Jr., and T. M. Knowland.)
Entered Freshman Year.



Joseph Augustine Donovan, Cambridge, Mass.

Born September 16, 1896.
Chemical Engineering.
Prepared at Cambridge High and Latin School.

Thesis: The Disengaging Velocities of Gases from Frothing Liquids.
Entered Freshman Year.



Charles Warren Dow, Lynn, Mass.

Born October 17, 1896.
Chemistry.
Prepared at Lynn Classical High School.
Chemical Society (2, 3, 4).

Thesis: The Electrolytic Chlorination of Certain Phenols.
Entered Freshman Year.



Eric William Drury, Victoria, B. C., Canada.

Born June 3, 1895.
Architecture.
Prepared at McGill University.
Architecture Society (3, 4).
Entered Intensive Naval Architecture Course, February, 1918.
Entered Sophomore Year.



Paul Fenno Dudley, Milton, Mass.

Born November 12, 1894.
Electrical Engineering.
Prepared at Milton High School.
Vectors; Electrical Engineering Society (3, 4).
Entered Freshman Year.



Malcolm Alfred Lancelot Eales, ΘX, Melrose, Mass.

Born December 19, 1894.
Electrical Engineering.
Prepared at Melrose High School.
Vectors; Pi Delta Epsilon; Electrical Engineering Society (3, 4); Wireless Society (2, 3); Masonic Club (3, 4); Aero Club (4).

The Tech, Associate Editor (1), Assistant Societies Editor (2), Societies and Institute Editor (3); Technology Monthly, Editor in Chief (4); Executive Committee (4).

Thesis: Design of Hydro-Electric Plant at Raymond, New Hampshire.
(With R. F. Grohe, J. W. B. Kennard, A. L. Russell.)
Entered Freshman Year.



George Olaf Ekwall, Waltham, Mass.

Born February 26, 1897.
Chemical Engineering.
Prepared at Waltham High School.
Chemical Society (4); Wireless Society (1, 2).

Thesis: The Electrolytic Preparation of Permanganates.
Entered Freshman Year.



Clarence Meredith Ellis, A.B., North Attleboro, Mass.

Born January 23, 1892.

Architecture.

Prepared at Phillips Andover Academy and Yale University, A.B.

Architectural Society (3, 4); Frieze and Cornice (4).

Entered Junior Year.



George Adolph Elz, Jamaica Plain, Mass.

Born August, 16, 1896.

Electrical Engineering.

Prepared at Boston Latin School.

Electrical Engineering Society (3, 4), Secretary (4).

Entered Freshman Year.



Walter Bernard Englebrecht, Stapleton, N. Y.

Born January 31, 1893.

Chemical Engineering.

Prepared at Curtis High School, New Brighton, N. Y.

Entered Freshman Year.



Yale Evelev, Boston, Mass.

Born January 15, 1893.
Electrical Engineering.
Prepared at Boston English High School.
Electrical Engineering Society (3, 4); Menorah; E.H.S. Club (2, 3, 4).
Entered Freshman Year.



Elizabeth Mary Fennessey, B.S., Boston, Mass.

Born June 18, 1895.
Biology and Public Health.
Prepared at Trinity College, B.S., Washington, D. C.
Cleofan (2, 3, 4), President (3, 4).
Entered Sophomore Year.



William Penn Fisher, ΦΚΣ, Glen Ridge, N. J.

Born January 4, 1897.
Chemical Engineering.
Prepared at Glen Ridge High School; Princeton University.
K_2S; Chemical Society (2, 3, 4).
Class Relay (2, 3).
Entered Sophomore Year.



Carlyle Darracott Fiske, ΑΤΩ, West Roxbury, Mass.

Born May 14, 1897.

Mechanical Engineering.

Prepared at Mechanic Arts High School.

Mechanical Engineering Society (3, 4).

Thesis: Investigation of Pneumatic Automobile Tires.

(With J. E. Rowe.)

Entered Freshman Year.



Harold Warner Fitch, Dorchester, Mass.

Born February 1, 1895.

Mechanical Engineering.

Prepared at Hartford Public High School.

Mechanical Engineering Society (3, 4), Treasurer (4); Officers Club (2, 3); Rifle Club (2, 3).

Cadet Corps, Lieutenant (2); Junior Battalion, Captain (3); Finance Committee (4).

Entered Freshman Year.



Saxton Woodberry Fletcher, ΦΓΔ, Andover, Mass.

Born March 3, 1895.

Mechanical Engineering.

Prepared at Phillips Andover Academy.

Beaver; Pi Delta Epsilon; Mechanical Engineering Society (3, 4).

Technique Electoral Committee (2); Treasurer (4); Finance Committee (4).

The Tech, Assistant Advertising Manager (2), Advertising Manager (3).

Entered Intensive Naval Architecture Course, February, 1918.

Entered Freshman Year.



Lawrence Hugo Flett, Melrose, Mass.

Born March 26, 1896.
Chemistry.
Prepared at Melrose High School.
Beaver; K_2S; Chemical Society (2, 3, 4).
Class Relay, Manager (1, 2); Technique, Photograph Editor (3).
Tech Show (1, 2).
Entered Freshman Year.



James Arthur Flint, ΣΑΕ, Denver, Col.

Born September 13, 1894.
Mechanical Engineering.
Prepared at University of Denver.
Mechanical Engineering Society (3, 4).
Entered Freshman Year.



Rolfe Ames Folsom, Malden, Mass.

Born May 16, 1897.
Electrochemistry.
Prepared at Malden High School.
Chemical Society (2, 3, 4); Electrical Engineering Society (4); Wireless Society (1, 2, 3).
Entered Freshman Year.



Karl Leonard Ford, Salem, Mass.

Born February 18, 1895.
Chemical Engineering.
Prepared at Salem High School.
Chemical Society (2, 3, 4).
Class Relay (1, 2).
Enlisted for National Service.
Entered Freshman Year.



Stanley Hamilton Franklin, Providence, R. I.

Born July 2, 1896.
Chemical Engineering.
Prepared at Providence English High School.
Chemical Society (2, 3); Rifle Club (3).
Entered Freshman Year.



John Wetherell Friery, Jamaica Plain, Mass.

Born October 20, 1896.
Civil Engineering.
Prepared at Mechanic Arts High School.
Civil Engineering Society (2, 3, 4), Vice-President (4).
Tech Show Chorus (2, 3).

Thesis: An Experimental Investigation to Determine the Relation between Suspended Matter in Rock Powder and Cementation Tests.
(With J. M. Hanley.)

Entered Freshman Year.



Clarence Chisholm Fuller, Mansfield, Mass.

Born November 15, 1895.

Electrochemistry.

Prepared at Mansfield High School.

Chemical Society (2, 3, 4); Electrical Engineering Society (4); Wireless Society (2, 3); Officers Club (2).

Cadet Corps, Lieutenant (2).

Thesis: A Government Electrochemical Problem. (With H. V. Atwell and J. M. Avery.)

Entered Freshman Year.



Samuel Fuller, East Bridgewater, Mass.

Born September 19, 1895.

Civil Engineering.

Prepared at Berkeley Preparatory School, Boston.

Civil Engineering Society (3, 4).

Entered Freshman Year.



Hugo Paul Geisler, Jr., New York, N. Y.

Born June 29, 1895.

Electrical Engineering.

Prepared at Saginaw High School, Saginaw, Mich.

Rifle Club (3); Officers Club (2); Catholic Club (1, 2); Wireless Society (1, 2, 3), Secretary (3).

Swimming Team (1); Tech Monthly, Advertising Manager (2), Circulating Manager (3); Tech Show, Electrician (1, 3); Cadet Corps, Lieutenant (2), Captain (3); Advanced Battalion, Captain (4).

Entered Freshman Year.



Maurice Edward Gelinas, Lowell, Mass.

Born April 9, 1896.
Electrical Engineering.
Prepared at Lowell High School.
Electrical Engineering Society (4).
Entered Intensive Naval Architecture Course, February, 1918.
Entered Freshman Year.



Robert Titus Gidley, Springfield, Mass.

Born January 7, 1893.
Architecture.
Prepared at Springfield Technical High School.
Architectural Society (2, 3, 4).
Entered Intensive Naval Architecture Course, February, 1918.
Entered Freshman Year.



Earnest Palmer Giles, ΦΔΘ, San Antonio, Texas.

Born March 17, 1894.
Architecture.
Prepared at University of Texas.
Architectural Society (2, 3, 4).
Wrestling Team (1, 2, 3), Captain (4); Wearer of the T.
Entered Intensive Naval Architecture Course, February, 1918.
Entered Freshman Year.



Arthur Joseph Giuranovich, Boston, Mass.

Born December 31, 1895.

Civil Engineering.

Prepared at Boston English High School.

Civil Engineering Society (2, 3, 4); Cosmopolitan Club (4); E.H.S. Club (3, 4); Catholic Club (1, 2, 3, 4), Vice-President (4).

The Tech, News Staff (2), Sporting Editor (3), Assistant Managing Editor (4), Editor in Chief (4); Class Track Team (1, 2).

Entered Intensive Naval Architecture Course, February, 1918.

Entered Freshman Year.



Harold Low Gleason, Dorchester, Mass.

Born August 6, 1893.

Electrical Engineering.

Prepared at Wentworth Institute.

Electrical Engineering Society (3, 4).

Class Football Team (1, 2), Captain (2); Class Baseball Team (1, 2, 3), Captain (2).

Entered Freshman Year.



Edgar Nathan Goldstine, ΣΑΜ, B.S., Terre Haute, Ind.

Born October 7, 1896.

Civil Engineering.

Prepared at Rose Polytechnic Institute, B.S.

Menorah Society.

Entered Senior Year.



Aaron Goodman, Dorchester, Mass.

Born April 22, 1897.
Electrical Engineering.
Prepared at Boston English High School.
Electrical Engineering Society (3, 4); Menorah Society; E.H.S. Club.
Entered Freshman Year.



Donald Chapin Goss, AXA, Lynn, Mass.

Born July 19, 1894.
Architecture.
Prepared at Lynn Classical High School.
Architectural Society (2, 3, 4); Frieze and Cornice; Track Team (1).
Entered Freshman Year.



Charles Harry Grace Gray, Dorchester, Mass.

Born May 26, 1896.
Electrical Engineering.
Prepared at Boston English High School.
Electrical Engineering Society (3, 4), Vice-President (4); E.H.S. Club (3, 4).
Tug-o'-War (1).
Entered Freshman Year.



Robert Ferdinand Grohe, Jamaica Plain, Mass.

Born October 13, 1895.

Electrical Engineering.

Prepared at Boston English High School.

Electrical Engineering Society (3, 4), Treasurer (4); E.H.S. Club (3, 4), President (4).

Tug-o'-War (1); Finance Committee (4); Tech Show, Orchestra (1, 2, 3).

Thesis: Design of Hydro-Electric Plant at Raymond, New Hampshire.

(With M. A. L. Eales, J. W. B. Kennard, A. L. Russell.)

Entered Freshman Year.



Alfred Paul Grossman, Melrose, Mass.

Born June 29, 1895.

Mining Engineering and Metallurgy.

Prepared at Melrose High School.

Mining Engineering Society (2, 3, 4); Menorah Society (2, 3, 4).

Thesis: Concentration of a Copper Ore.

Entered Freshman Year.



Ernest Alton Grunsfeld, Jr., New York, N. Y.

Born August 25, 1897.

Architecture.

Prepared at Phillips Exeter Academy.

Architectural Society (2, 3, 4); Exeter Club (3).

Technique, Art Editor (3).

The Tech, News Staff (1), Associate Editor (2); Tech Show, Scenery Director (4); Institute Committee, Bulletin Board Committee (4); Tech Night Committee (4); Technology Monthly, Art Editor (4); Pow-Wow Committee, Chairman (4).

Entered Intensive Naval Architecture Course, February, 1918.

Entered Freshman Year.



John Warren Gustaveson, Norfolk, Va.

Born February 24, 1896.

Electrical Engineering.

Prepared at Norfolk High School and Virginia Military Academy.

Electrical Engineering Society (3, 4).

T. C. A., Boys' Work Committee, Chairman (4).

Thesis: A Statistical Study of the Economics of the One Man Light Safety Car.

Entered Junior Year.



George Frederick Halfacre, Boston, Mass.

Born April 30, 1897.

Mining Engineering and Metallurgy.

Prepared at Boston English High School.

Mining Society (2, 3, 4), Secretary (3).

Class Relay (2, 3, 4); Class Track Team (1, 2, 3, 4); Varsity Track Team (2, 3, 4); Varsity Cross-Country Team (3, 4); Indoor 2-Mile Relay (2, 3, 4); 4-Mile Relay (2, 3, 4); Wearer of the T.

Thesis: Concentration of a Virginia Copper Ore by Jigs, Tables, and Flotation.

Entered Freshman Year.



John Merrill Hanley, Dorchester, Mass.

Born November 2, 1897.

Civil Engineering.

Prepared at Mechanic Arts High School.

Thesis: An Experimental Investigation to Determine the Relation between Suspended Matter in Rock Powder and Cementation Tests.

(With J. W. Friery.)

Entered Freshman Year.



Carl Brown Harper, A.B., B.S., Elkins, W. Va.

Born April 30, 1894.
Aero Engineering.
Prepared at Davis and Elkins College, Elkins.
Electrical Engineering Society (3, 4); Aero Club, Vice-President (4).
Entered Junior Year.



Edwin Russell Harrall, ΘΔΧ, Providence, R. I.

Born April 11, 1896.
Civil Engineering.
Prepared at Hope Street High School, Providence.
Civil Engineering Society (2, 3, 4).
Tech Show, Orchestra (1, 2, 3).
Entered Freshman Year.



Elliott Dean Harrington, ΒΘΠ, Elkhorn, Wis.

Born August 10, 1895.
Electrical Engineering.
Prepared at Elkhorn High School and Beloit College.
Masque; Electrical Engineering Society (2, 3, 4); Aero Club (3, 4).
Musical Clubs (2, 3, 4), Banjo Club, Leader (4); Tech Show, Cast (3), Author (4).
Entered Sophomore Year.



Clarence Dunbar Hart, ΒΘΠ, S.B., West Somerville, Mass.

Born June 19, 1894.
School for Health Officers.
Prepared at Somerville High School and Tufts College, S.B.
Entered Senior Year.



William Elmo Hartley, A.B., Springfield, Mo.

Born September 20, 1892.
Chemical Engineering.
Prepared at Drury College, A.B.
Chemical Society (4).
Entered Junior Year.



Ervine Olney Herman, Brookline, Mass.

Born September 20, 1895.
Physics.
Prepared at Newton High School.
Chemical Society (3); Electrical Engineering Society (3).
Fencing Team (1, 2), Manager (1).
Entered Freshman Year.



Perry Anderson Hewitt, ΔΧΔ, Montgomery, Ala.

Born May 6, 1897.
Chemistry.
Prepared at Tome School and Chauncy Hall School.
Chemical Society (2).
Entered Sophomore Year.



Wilfred Reynolds Holt, East Haven, Conn.

Born July 26, 1897.
Chemical Engineering.
Prepared at Mt. Hermon School.
Chemical Society (2, 3, 4).
Entered Freshman Year.



Frank Herbert Hopkins, Rockland, Mass.

Born December 8, 1896.
Civil Engineering.
Prepared at Rockland High School.
Civil Engineering Society (2, 3, 4); Officers Club.
Entered Freshman Year.



Alan Frank Howard, Woburn, Mass.

Born June 24, 1895.
Engineering Administration.
Prepared at Reading High School.
Corporation XV, Director (3), Treasurer (4).
Entered Freshman Year.



Paul Henry Howard, Woburn, Mass.

Born June 24, 1895.
Engineering Administration.
Prepared at Reading High School.
Corporation XV, President (4).
Entered Freshman Year.



Julian Cheever Howe, ΦΚΣ, Cohasset, Mass.

Born October 24, 1895.

Engineering Administration.

Prepared at Cohasset High School and Phillips Andover Academy.

Osiris; Walker Club; Corporation XV (3, 4), President (4).

Class Football (1, 2); Junior Prom Committee, Treasurer (3).

Tech Show, Orchestra (1); Glee Club (1, 2, 3); Chairman Finance Committee (4).

Entered Freshman Year.



Stephen Aloysius Hoye, Dorchester, Mass.

Born July 23, 1892.
Engineering Administration.
Prepared at Boston College High School.
Corporation XV (3, 4); Catholic Club (2, 3, 4).
Entered Freshman Year.



Chuan Yuan Hsu, Peking, China.

Born September 4, 1892.
Civil Engineering.
Prepared at Phillips Andover Academy.
Entered Freshman Year.



Yun-chung Hsu, Nanking, China.

Born September 5, 1890.
Electrochemistry.
Chemical Society (2, 3, 4); Electrical Society (4); Chinese Club (1, 2, 3, 4).

Thesis: A Study of Locomotive Superheaters.
Entered Freshman Year.



Edgar Wolcott Huckins, Roxbury, Mass.

Born February 24, 1891.
Engineering Administration.
Prepared at Mechanic Arts High School.
Corporation XV (3, 4); Civil Engineering Society (2).
Tech Show, Chorus (2).
Entered Freshman Year.



Ottomar Gay Hugo, Jr., ΘΔΧ, San Antonio, Texas.

Born March 8, 1895.
Mechanical Engineering.
Prepared at San Antonio Academy.
Electrical Engineering Society (3); Mechanical Engineering Society (3, 4).
Track Team (1); Tech Show (2).
Entered Freshman Year.



Giles Daniel Hulseman, ΚΣ, Kansas City, Mo.

Born February 12, 1897.
Electrical Engineering.
Prepared at University of Kansas.
Vectors; Electrical Engineering Society (2, 4).
The Tech, Assistant Advertising Manager (2).
Entered Sophomore Year.



George Bradfield Hutchings, Jr., ΦΣΚ, Stamford, Conn.

Born August 22, 1895.
Mechanical Engineering.
Prepared at Stamford High School.
Osiris; Beaver; Masque; Mechanical Engineering Society (2, 3, 4).
Tug-o'-War (2).
Tech Show, Assistant Business Manager (1, 2), Business Manager (3), General Manager (4); The Tech, General Manager (4); Institute Committee (4).
Enlisted for National Service.
Entered Freshman Year.



Willard Earl Imhoff, ΘΔΧ, Port Arthur, Texas.

Born July 20, 1895.
Mechanical Engineering.
Prepared at The Rice Institute, Houston, Texas.
Mechanical Engineering Society (3, 4).
Entered Junior Year.



Masaki Ito, Osaka, Japan.

Born 1884.
Mining Engineering and Metallurgy.
Prepared at Osaka Technical College.
Entered Senior Year.



Herbert Foster Jermain, ΣX, Stamford, Conn.

Born December 25, 1894.
Electrochemistry.
Prepared at Stamford High School.
Officers Club (2).
Cadet Corps, Lieutenant (2).
Entered Freshman Year.



Charles John Christian Johansen, Dorchester, Mass.

Born July 7, 1893.
Electrical Engineering.
Prepared at Boston English High School.
Electrical Engineering Society (4).
Entered Freshman Year.



Alfred Augustus Johns, A.B., Rochester, N. Y.

Born March 29, 1893.
Sanitary Engineering.
Prepared at University of Rochester, A.B.
Cosmopolitan Club (3, 4); Masonic Club (2, 3, 4), President (4).
Orchestra (2).
Entered Sophomore Year.



Alfin Johnson, Honolulu, T. H.

Born November 2, 1890.
Civil Engineering.
Prepared at Oregon State Agricultural College.
Entered Senior Year.



Bertram Francis Jones, Roxbury, Mass.

Born September 5, 1893.
Chemistry.
Prepared at Boston English High School and Mass. College of Pharmacy.
Chemical Society (2, 3, 4).
Class Football (1, 2); Class Baseball (1, 2).
Entered Freshman Year.



William Alfred Jones, Cambridge, Mass.

Born June 1, 1896.
Civil Engineering.
Prepared at Rindge Technical School.
Civil Engineering Society (4); Officers Club (2).
Cross-Country Team (1).
Cadet Corps, Lieutenant (2), Captain (3); Junior Battalion, Captain (3); Advanced Battalion, Captain (4).
Instructor in Infantry Drill, U. S. Naval Aviation Detachment (4).

Thesis: An Investigation to Determine the Volumetric Changes in Concrete due to Moisture Content.
(With H. R. Lacey.)
Entered Freshman Year.



Karl Herman Kaiser, ΛΧΑ., Boston, Mass.

Born June 17, 1896.

Architecture.

Prepared at Boston English High School.

Architectural Society (2, 3, 4); Architectural Engineering Society (2, 3, 4), Vice-President (3).

Technique, Assistant Art Editor (3).

Entered Freshman Year.



Harry Leon Katz, Malden, Mass.

Born September 19, 1892.

Civil Engineering.

Prepared at Mechanic Arts High School and Tufts College.

Civil Engineering Society (3, 4); Menorah Society.

Thesis: Effect of Sidewalk Widths upon Rapid Transit of Pedestrian Traffic.

Entered Intensive Naval Architecture Course, February, 1918.

Entered Junior Year.



Joseph Aloysius Kelley, Haverhill, Mass.

Born December 15, 1895.

Chemical Engineering.

Prepared at Haverhill High School.

Chemical Society (2, 3, 4); Catholic Club (2, 3, 4), Secretary (4).

Thesis: Absorption of HCl and Air by Special Carbon A.

Entered Freshman Year.



Thomas Patrick Kelly, Jamaica Plain, Mass.

Born August 1, 1895.

Chemical Engineering.

Prepared at West Roxbury High School.

Chemical Society (2, 3, 4); Catholic Club (1, 2, 3, 4), Treasurer (4).

Tug-o'-War (1); Technique Electoral Committee (2); Executive Committee (4).

Thesis: Antidimming Compounds for Gas Mask Lenses.

Entered Freshman Year.



John William Bennett Kennard, Dorchester, Mass.

Born October 2, 1897.

Electrical Engineering.

Prepared at Boston English High School.

Electrical Engineering Society (2, 3, 4); E.H.S. Club (3, 4); Rifle Club.

Thesis: Design of Hydro-Electric Plant at Raymond, New Hampshire.
(With M. A. L. Eales, R. F. Grohe, A. L. Russell.)

Entered Freshman Year.



Parker Henry Kennedy, ΑΤΩ, Middleboro, Mass.

Born November 26, 1895.

Mechanical Engineering.

Prepared at Middleboro High School.

Mechanical Engineering Society (2, 3, 4).

Tug-o'-War (2); Technique Electoral Committee (2).

Enlisted for National Service.

Entered Freshman Year.



John West Kilduff, Boston, Mass.

Born March 7, 1896.
Sanitary Engineering.
Prepared at Boston English High School.
Civil Engineering Society (4); E. H. S. Club (3, 4).
Class Relay (3); Gym Team (2).
Entered Freshman Year.



John Timothy Kiley, Somerville, Mass.

Born November 17, 1896.
Electrical Engineering.
Prepared at Somerville High School.
Electrical Engineering Society (3, 4); Wireless Club (2); Rifle Club (3); Catholic Club (2, 3, 4).
Class Wrestling Team (1, 2); Football (2); Class Crew (2, 3).
Varsity Wrestling Team (3, 4).
Entered Freshman Year.



Harold Dustin Kilgore, Gloucester, Mass.

Born June 18, 1895.
Civil Engineering.
Prepared at Gloucester High School.
Civil Engineering Society (2).

Thesis: A Design for a Structure to Replace the Existing Bridge across the Annisquam River at Bridgewater Street, Annisquam, Mass.
Entered Freshman Year.

Thomas Millbury Knowland, Newburyport, Mass.

Born September 11, 1894.

Chemical Engineering.

Prepared at Newburyport High School.

Chemical Society (3); Electrical Engineering Society (4); Rifle Club (1, 2, 3, 4), President (4); Officers Club (2, 3).

M.I.T.A.A. (4); Rifle Team, Manager (4); Junior Battalion, Lieutenant (3); Advanced Battalion, Captain (4).

Thesis: Solution Potential of $NaMnO_4$.

Entered Freshman Year.



Millard Knowlton, M.D., Trenton, N. J.

Born February 18, 1875.

School for Health Officers.

Prepared at Indiana State Normal School and Medical College of Indiana, M.D.

Entered Junior Year.



Cornelius Van Santvoord Knox, ΘX, A.B., New Brunswick, N. J.

Born April 18, 1892.

Civil Engineering.

Prepared at Rutgers Preparatory School and Princeton University, A.B.

Civil Engineering Society (3, 4).

Entered Sophomore Year.





Rolf Knudsen, Borgestad, Norway.

Born August 24, 1893.

Electrochemistry.

Prepared at Grossherzogliche Technische Hochschule, Darmstadt.

Chemical Society (4).

Entered Sophomore Year.



Nathaniel Krasnoff, ZBT, Union, S. C.

Born December 12, 1895.

Electrical Engineering.

Prepared at Central High School, Washington, D. C.

Class Baseball Team, Manager (3).

Entered Freshman Year.



Henry Richard Lacey, Somerville, Mass.

Born August 13, 1896.

Civil Engineering.

Prepared at Somerville High School.

Civil Engineering Society (2, 3, 4).

Thesis: An Investigation to Determine the Volumetric Changes in Concrete due to Changes in Moisture Content.

(With W. A. Jones.)

Entered Freshman Year.



Maurice Neuman Landis, Ph.D., Chicago, Ill.

Born August 16, 1894.
Mining Engineering and Metallurgy.
Prepared at Sheffield Scientific School, Yale, Ph.D.

Thesis: The Effect of Time in Tempering Steel.
Entered Junior Year.



Frederic Allen Lane, Gloucester, Mass.

Born May 16, 1895.
Electrical Engineering.
Prepared at Gloucester High School.
Electrical Engineering Society (3, 4).
Executive Committee (4), Cadet Corps, Lieutenant (2), Captain (3), Major (4), Junior Battalion, Lieutenant (3).
Entered Freshman Year.



Herbert Beamish Larner, Cambridge, Mass.

Born November 28, 1893.
Biology and Public Health.
Prepared at Rindge Technical High School.
Entered Freshman Year.



Elmer Earle Legge, ΧΦ, Brockton, Mass.

Born June 26, 1895.
Mechanical Engineering.
Prepared at Brockton High School.
Mechanical Engineering Society (3, 4).
Tech Monthly, Assistant Business Manager (1, 2).
Entered Freshman Year.



Joakim Lehmkuhl, Bergen, Norway.

Born September 22, 1895.
Electrical Engineering and Engineering Administration.
Prepared at Bergens Tekniske Skole.
Electrical Engineering Society (3, 4); Wireless Society (2, 3).
Class Crew (2, 3).
Entered Freshman Year.



Harry Carl LeVine, Melrose, Mass.

Born March 2, 1896.
Mechanical Engineering.
Prepared at Melrose High School.
Mechanical Engineering Society (2, 3, 4).
Entered Freshman Year.



Leonard Isaac Levine, Dorchester, Mass.

Born January 23, 1897.
Mechanical Engineering.
Prepared at Boston English High School.
Mechanical Engineering Society (3, 4).
Tug-o'-War (1); Class Baseball (1, 2, 3), Captain (3).
Entered Intensive Naval Architecture Course, February, 1917.
Entered Freshman Year.



Carl Alfon Lindgren, Jr., Hathorne, Mass.

Born November 30, 1895.
Electrical Engineering.
Prepared at Holten High School, Danvers, Mass.
Electrical Engineering Society (4).
Entered Freshman Year.



Chester Earl Linscott, Roxbury, Mass.

Born July 9, 1896.
Chemistry.
Prepared at Boston English High School.
Chemical Society (2).
Entered Freshman Year.



Edward Norton Little, ΔΤ, A.B., Peoria, Ill.

Born November 26, 1893.

Electrical Engineering.

Prepared at Peoria High School and Yale University, A.B.

Vectors.

Entered Junior Year.



Gee Call Liu, Canton, China.

Born October 10, 1891.

Civil Engineering.

Prepared at Williston Seminary, Easthampton, Mass.

Civil Engineering Society (3, 4); Chinese Club (1, 2, 3, 4); Cosmopolitan Club (2, 3, 4).

Entered Freshman Year.



Francisco Lobos, B.S., Santiago, Chile.

Born December 30, 1890.

Architecture.

Prepared at Liceum Amunategui of Santiago, Chile and University of Chile, B.S.

Architectural Engineering Society (3, 4); Latin American Club (3, 4); Cosmopolitan Club.

Entered Junior Year.



Francis Leroy Long, Lawrence, Mass.

Born August 10, 1896.

Mechanical Engineering.

Prepared at Lawrence High School.

Mechanical Engineering Society (3, 4).

Entered Intensive Naval Architecture Course, February, 1918.

Entered Freshman Year.



James Edward Longley, Kalamazoo, Mich.

Born August 19, 1892.

Civil Engineering.

Prepared at Kalamazoo College.

Civil Engineering Society (1, 2, 3, 4), Executive Committee (4); Cosmopolitan Club (2, 3); Rifle Club (2).

Dormitory House Committee (3, 4), Chairman (4).

Thesis: An Experimental Investigation of the Effect of Rivet Holes upon the Strength of Steel Tension Members.

(With J. R. Longley.)

Entered Freshman Year.



John Robert Longley, Kalamazoo, Mich.

Born August 19, 1892.

Civil Engineering.

Prepared at Kalamazoo College.

Civil Engineering Society (1, 2, 3, 4), Secretary (3); Glee Club (2, 3).

Thesis: An Experimental Investigation of the Effect of Rivet Holes upon the Strength of Steel Tension Members.

(With J. E. Longley.)

Entered Freshman Year.



William Mason Bradley Lord, ΔΚΕ, A.B., Jamaica Plain, Mass.

Born April 15, 1895.

Engineering Administration.

Prepared at Portland High School and Bowdoin College, A.B.

Mechanical Engineering Society (3, 4); Corporation XV (3, 4).

Entered Junior Year.



Otto Carl Lorenz, ΦΒΕ, Scranton, Pa.

Born November 12, 1896.

Architecture.

Prepared at Central High School, Scranton, Pa.

Beaver; Architectural Society (1, 2, 3, 4); Architectural Engineering Society (1, 2, 3, 4); Aero Club (4).

Class Relay (1, 2), Captain (1, 2); President (1); Technique Electoral Committee (2); Technique, Faculty Editor (3); Election Committee (3).

The Tech Circulation Manager (2); Institute Committee (2).

Entered Freshman Year.



Alexander Goodall MacAlister, Jr., Camden, N. J.

Born August 4, 1895.

Electrical Engineering.

Prepared at Camden Manual Training and High School and University of Pennsylvania.

Electrical Engineering Society (3, 4).

T. C. A., Committee on Boys' Work, Chairman (3), Vice-President (4), Community Service, Chairman (4); Gym Team (2); Swimming Team (3, 4).

Entered Sophomore Year.



Paul McAllister, Auburndale, Mass.

Born January 7, 1898.
Electrochemistry.
Prepared at Newton Technical High School.
Chemical Society (2, 3, 4).
Tech Show, Orchestra (1, 2).

Thesis: Electrolytic Deposition on Wood.
Entered Freshman Year.



Donald Wales MacArdle, Roslindale, Mass.

Born July 3, 1893.
Chemistry.
Prepared at Boston English High School.
Chemical Society (2, 3, 4); E.H.S. Club (2, 3, 4), President (3).
Class Relay (1, 2).
Orchestra (2, 3, 4), Conductor (2, 3), President (4); Glee Club (1).

Thesis: Decomposition of Phosgene by Special Carbon.
(With G. H. Richards.)
Entered Freshman Year.



Donald MacAskill, Salem Depot, N. H.

Born March 8, 1896.
Architecture.
Prepared at Methuen High School.
Architectural Society (2, 3, 4).
Entered Intensive Naval Architecture Course, February, 1918.
Entered Freshman Year.



John Woods McCausland, Chicago, Ill.

Born December 1, 1894.
Mechanical Engineering.
Prepared at Lake High School and Lake Forest Academy, Chicago.
Entered Sophomore Year.



James Lewis McClellan, Brookline, Mass.

Born July 29, 1894.
Chemistry.
Prepared at Boston Latin School.
Thesis: The Action of Aqua Regia upon Kitones
Entered Freshman Year.



Bruce Magaw McDill, A.B., Oxford, Ohio.

Born August 13, 1892.
Sanitary Engineering.
Prepared at Miami University, A.B.
Civil Engineering Society (2, 3).
Thesis: A Study of the Sewerage and Sewage Disposal of Clinton, Mass.
Enlisted for National Service.
Entered Sophomore Year.



Paul Aloysius McGreenery, Winchester, Mass.

Born July 3, 1896.
Mechanical Engineering.
Prepared at St. Johns Preparatory School.
Mechanical Engineering Society (2, 3, 4); Catholic Club; Chess Club (2, 3).
Entered Freshman Year.



Sherman Albert MacGregory, Brockton, Mass.

Born May 24, 1896.
Civil Engineering.
Prepared at Brockton High School.
Civil Engineering Society (2, 3, 4).
Tech Show (2), Lyrics (3, 4).

Thesis: A Project for the Elimination of the Grade Crossings in Union Square, Rockland, Mass. (With G. F. Malley.)
Entered Freshman Year.



Waldemar Stanwood McGuire, Revere, Mass.

Born May 24, 1895.
Chemical Engineering.
Prepared at Revere High School.
Chemical Society (2, 3, 4); Cosmopolitan Club (2, 3); Officers Club (2).
Cadet Corps, Lieutenant (2).

Thesis: Antidimming Compounds for Gas Mask Lenses.
Entered Freshman Year.



George Edward McLaughlin, ΔΤΔ, Brookline, Mass.

Born May 26, 1896.
Mechanical Engineering.
Prepared at Brookline High School.
Catholic Club, Treasurer (3).
Tech Show, Chorus (2), Cast (2, 3); Musical Clubs (4).
Entered Freshman Year.



Harold Clarke McLaughlin, A.B., Sedalia, Mo.

Born October 23, 1892.
Architecture.
Prepared at University of Missouri, A.B.
Architectural Society (1, 2, 3); Frieze and Cornice.
Entered Freshman Year.



Edwin Mongan McNally, ΘΞ, Chelsea, Mass.

Born January 3, 1896.
Mechanical Engineering.
Prepared at Chelsea High School.
Mechanical Engineering Society, Governing Board (4); Catholic Club; Rifle Club.
The Tech, News Staff (1); Tech Show, Orchestra (1); Mandolin Club (3, 4); Orchestra (2, 3, 4), Manager (3), President (4).
Enlisted for National Service.
Entered Freshman Year.



George Michael Macheca, ΘΞ, A.B., New Orleans, La.

Born January 25, 1895.

Mechanical Engineering.

Prepared at Layola University, A.B.

Pi Delta Epsilon; Mechanical Engineering Society (4); Electrical Engineering Society (3); Catholic Club (2); Aero Club (3, 4).

Technology Monthly, General Staff (3), Advertising Manager (3), Manager Editor (4), General Manager (4).

Entered Sophomore Year.



Sarkis Mardiros Madancy, Huseynig, Armenia.

Born March 25, 1892.

Civil Engineering.

Prepared at the Armenian National Academy of Harpoot.

Civil Engineering Society (2, 3, 4); Cosmopolitan Club (2, 3, 4).

Entered Sophomore Year.



Frederick Alexander Magoun, Cambridge, Mass.

Born March 4, 1896.

Mechanical Engineering.

Prepared at Cambridge Latin School.

Mechanical Engineering Society (3, 4); Rifle Club (3, 4).

Tug-o'-War (2); Class Wrestling Team (1).

Cadet Corps, Lieutenant (2), Captain (3); Tech Show, Orchestra (2).

Entered Intensive Naval Architecture Course, February, 1918.

Entered Freshman Year.



George Francis Malley, Adams, Mass.

Born August 5, 1896.

Civil Engineering.

Prepared at Adams High School and Worcester Academy.

Civil Engineering Society (2, 3, 4); Catholic Club.

Class Football (1, 2); Class Baseball (1, 2), Captain (2).

Thesis: A Project for the Elimination of Grade Crossings in Union Square, Rockland, Mass.
(With S. A. MacGregory.)

Enlisted for National Service.

Entered Freshman Year.



Samuel Mann, Plainfield, Mass.

Born July 17, 1897.

Electrical Engineering.

Prepared at Plainfield High School and Stevens Institute of Technology.

Electrical Engineering Society (3, 4).

Entered Sophomore Year.



Eugene Reynolds Manning, ΩA, B.S., Ch.E., Wilmington, Del.

Born July 30, 1890.

Chemical Engineering.

Prepared at Friends University and Delaware College.

Thesis: Government Research in Chemical Engineering Subject.

Entered Senior Year.



Elwood McElwain Manter, Auburndale, Mass.

Born October 12, 1895.
Mechanical Engineering.
Prepared at Newton Technical High School.
Mechanical Engineering Society (3, 4).
Entered Freshman Year.



Hamazasb Der-Manuelian, Lowell, Mass.

Born January 28, 1893.
Engineering Administration.
Prepared at Lowell High School.
Corporation XV (3, 4); Electrical Engineering Society (4).
Entered Freshman Year.



Lawrence Parsons Marshall, ΦΝΘ, Everett, Mass.

Born October 16, 1895.
Engineering Administration.
Prepared at Everett High School and Wesleyan University.
Corporation XV (2, 3, 4).
Entered Sophomore Year.



Leslie Howard Marshall, Waltham, Mass.

Born July 21, 1897.
Chemical Engineering.
Prepared at Waltham High School.
Chemical Society (1, 2).
Entered Freshman Year.



Donald Godfrey Merrill, Taunton, Mass.

Born January 4, 1896.
Mechanical Engineering.
Prepared at Taunton High School.
Entered Freshman Year.



En Chao Miao, Changchow, Kiangsû, China.

Born February 24, 1893.
Civil Engineering.
Prepared at Tsing Hua College, China; St. John's University, China, and University of Illinois.
Civil Engineering Society (2, 3, 4); Cosmopolitan Club (2, 3, 4); Chinese Club (2, 3, 4), Treasurer (2), Secretary (3, 4).
Thesis: A Study of the Development of Steel Freight Cars.
Entered Sophomore Year.



Harold Lionel Miller, Needham, Mass.

Born January 7, 1895.
Mechanical Engineering.
Prepared at Needham High School.
Mechanical Engineering Society (3, 4); Masonic Club (3, 4).
Entered Freshman Year.



Raymond Percy Miller, Swampscott, Mass.

Born January 9, 1896.
Mechanical Engineering.
Prepared at Swampscott High School.
Mechanical Engineering Society (3, 4), Directors Board (4).
Entered Freshman Year.



Edward Hopkins Moffatt, Woodstock, Ontario.

Born April 6, 1894.
Electrical Engineering.
Prepared at Phillips Exeter Academy.
Electrical Engineering Society (3, 4).
Entered Freshman Year.



John Mansfield Mullowney, Jr., Brookline, Mass.

Born July 26, 1896.
Electrical Engineering.
Prepared at Brookline High School.
Electrical Engineering Society (4).
Class Crew, Captain (2).
Entered Freshman Year.



Albert Russell Mumford, Winthrop, Mass.

Born July 13, 1895.
Electrochemistry; Engineering Administration.
Prepared at Mechanic Arts High School.
Chemical Society (3, 4); Rifle Club (3, 4).
Class Relay (1); Class Track Team (1, 2); Technique Assistant Portfolio Editor (3).
Entered Freshman Year.



Albert Francis Murray, ΘX, B.A., Albany, Ala.

Born June 22, 1894.
Electrical Engineering.
Prepared at Maryville College, A.B.
Electrical Engineering Society (2, 3, 4); Wireless Society, Vice-President (2, 3).
Instructor in Radio Telegraphy, U. S. Signal Corps School of Aëronautics, M.I.T. (4).
Entered Sophomore Year.



Frederick Harwood Norton, Boston, Mass.

Born October 23, 1896.
Physics.
Prepared at Nashua High School.

Thesis: Tensile Strength of Magnesium Alloys.
(With John T. Norton.)
Entered Freshman Year.



John Torrey Norton, Boston, Mass.

Born November 13, 1898.
Physics.
Prepared at Nashua High School.
Chemical Society (4); Wireless Society (1, 2).

Thesis: Tensile Strength of Magnesium Alloys.
(With F. H. Norton.)
Entered Freshman Year.



Bernard O'Daly, Dorchester, Mass.

Born June 11, 1897.
Chemical Engineering.
Prepared at Boston English High School.
Chemical Society (2, 3, 4); E.H.S. Club (4); Catholic Club (1, 2, 3, 4), President (4).
Entered Freshman Year.



Gretchen Abigail Palmer, Cambridge, Mass.

Born August 3, 1896.
Chemistry.
Prepared at Milton High School.
Masque; Cleofan, Secretary (3); Chemical Society (2, 3, 4).
Entered Freshman Year.



John Acton Parker, Somerville, Mass.

Born August 31, 1896.
Electrical Engineering.
Prepared at Tufts College.
Entered Sophomore Year.



José Pasos-Diaz, Managua, Nicaragua, C. A.

Born April 25, 1892.
Civil Engineering.
Prepared at U. S. M. A., West Point, N. Y.
Civil Engineering Society (3, 4); Cosmopolitan Club (3, 4); Latin American Club (3, 4).

Thesis: Design for a Multiple Arch Dam at Conchula, San Juan River, Nicaragua.
Entered Junior Year.



Frank Cogswell Pearson, Keene, N. H.

Born March 22, 1895.
Mechanical Engineering.
Prepared at Phillips Exeter Academy.
Mechanical Engineering Society (3, 4); Rifle Club (2, 3, 4).
Entered Freshman Year.



Joseph Keighley Pearson, Lawrence, Mass.

Born December 14, 1893.
Mechanical Engineering.
Prepared at Lawrence High School.
Electrical Engineering Society (3); Mechanical Engineering Society (4).
Entered Freshman Year.



Jorge Pena-Polo, A.B., Bogota, Columbia.

Born December 26, 1893.
Architecture.
Prepared at Colegio Del Rosario, A.B.
Civil Engineering Society (3, 4); Cosmopolitan Club (2, 4); Latin American Club (3, 4).

Thesis: A Design for a Three-Arched Highway Bridge for Columbia, S. A.
Entered Sophomore Year.



Frederick Brueton Philbrick, South Weymouth, Mass.

Born April 21, 1896.
Electrical Engineering.
Prepared at Weymouth High School.
Electrical Engineering Society (4).
Entered Freshman Year.



Marvin Pierce, ΒΘΠ, ΦΒΚ, A.B., Dayton, Ohio.

Born June 17, 1893.
Civil Engineering.
Prepared at Miami University, A.B.
Osiris; Walker Club; Civil Engineering Society (3, 4), President (4).
Institute Committee (4); M.I.T.A.A. (4); Tennis Team (3).

Thesis: A Study of the Maximum Capacity of a Series of Reservoirs.
Entered Junior Year.



Theodore Adolphus Pierson, Hopewell, N. J.

Born May 8, 1895.
Mechanical Engineering.
Prepared at Drexel Institute.
Mechanical Engineering Society (3, 4).
Entered Junior Year.



Garnett Hartle Porter, Cambridge, Mass.

Born September 12, 1896.
Chemical Engineering.
Prepared at Cambridge High and Latin School.
Class Football (1, 2); Class Baseball (2, 3); Governing Board (4); Class Dinner Committee (4).

Thesis: Determination of the Tensile Strength of Glues.
Entered Freshman Year.



John Robinson Poteat, ΦBE, B.A., Greenville, S. C.

Born August 15, 1894.
Electrical Engineering.
Prepared at Furman University, B.A., Greenville, S. C.
Vectors; Electrical Engineering Society (2, 3, 4).
Class Football (2); Class Baseball (1, 2), Captain (2); Glee Club (3, 4), Leader (4).
Entered Freshman Year.



Mahlon Milton Read, Cambridge, Mass.

Born October 1, 1895.
Electrical Engineering.
Prepared at Cambridge High and Latin School.
Enlisted for National Service.
Entered Freshman Year.



Kenneth Reid, ΑΧΑ, Dorchester, Mass.

Born August 23, 1893.

Architecture.

Prepared at Mechanic Arts High School.

Osiris; Beaver; Pi Delta Epsilon; Frieze and Cornice; Architectural Society, Executive Committee (4); Architectural Engineering Society.

Tug-o'-War (1, 2); Treasurer (1, 2).

The Tech, Associate Editor (2), Editor-in-Chief (4); Technique Electoral Committee (2); Technique, Editor-in-Chief (3); Walker Memorial Committee, Chairman (4); Executive Committee (4); Institute Committee (4).

Entered Intensive Naval Architecture Course, February, 1918.

Entered Freshman Year.



Clarence Earl Richards, B.Ph., Columbus, Ohio.

Born November 19, 1892.

Architecture.

Prepared at Denison University, B.Ph.

Architectural Society (2, 3, 4); Architectural Engineering Society (3).

Entered Sophomore Year.



Henry Edward Richards, Lynnfield Center, Mass.

Born April 12, 1896.

Electrical Engineering.

Prepared at Wakefield High School.

Electrical Engineering Society (3, 4).

Glee Club (3, 4).

Entered Freshman Year.



Richard Rimbach, New York, N. Y.

Born December 24, 1895.
Civil Engineering and Sanitary Engineering.
Prepared at Townsend Harris Hall.
Civil Engineering Society (2, 3, 4); Deutscher Verein, Secretary (3); Catholic Club (2, 3, 4).
Cross-Country Team (3, 4).

Thesis: An Investigation of Earths for Fills.
Entered Sophomore Year.



Walter Harrison Robinson, Dorchester, Mass.

Born October 5, 1894.
Civil Engineering.
Prepared at Dorchester High School.
Civil Engineering Society (2, 3, 4); Rifle Club (2, 3).
Entered Freshman Year.



Wingate Rollins, ΔΚΕ, A.B., Milton, Mass.

Born September 17, 1894.
Engineering Administration.
Prepared at Roxbury Latin School and Harvard University, A.B.
Walker Club; Theta Tau.
Enlisted for National Service.
Entered Junior Year.



James Everett Rowe, ΑΤΩ, Providence, R. I.

Born June 13, 1896.

Mechanical Engineering.

Prepared at Phillips Exeter Academy.

Mechanical Engineering Society (2, 3, 4); Exeter Club, Vice-President (3).

Technique, Assistant Business Manager (3).

Activities Committee, Chairman (4); Institute Committee (4); Class Dinner Committee (4); Senior Dance Committee (4).

Thesis: Investigation of Pneumatic Automobile Tires.

(With C. D. Fiske.)

Entered Freshman Year.



Rapheal Robinson Rowe, ΛΧΑ, A.B., Grand Rapids, Mich.

Born August 26, 1896.

Civil Engineering.

Prepared at Central High School, Grand Rapids, and Harvard University, A.B.

Civil Engineering Society (3, 4).

Tech Show, Lyrics (3).

Thesis: The Determination of Expressions for the Deflections of Arches.

Entered Junior Year.



David Nathan Rubin, ΣΑΜ, Holyoke, Mass.

Born July 12, 1897.

Civil Engineering.

Prepared at Holyoke High School.

Civil Engineering Society (3, 4).

Walker Memorial Committee (4).

Thesis: An Experimental Investigation of the Strength of Miniature Skewed Arches.

(With R. Beaver.)

Entered Freshman Year.



Arthur Litchfield Russell, Roxbury, Mass.

Born December 4, 1896.

Electrical Engineering.

Prepared at Boston English High School.

Electrical Engineering Society (4); E.H.S. Club (4).

Thesis: Design of Hydro-Electric Plant at Raymond, New Hampshire.

(With M. A. L. Eales, R. F. Grohe, W. W. B. Kennard.)

Entered Freshman Year.



William Patrick Ryan, BΘΠ, West Medway, Mass.

Born March 11, 1895.

Chemical Engineering.

Prepared at Phillips Andover Academy.

Osiris; Catholic Club.

Class Football (1, 2); Technique Electoral Committee (2); Technique, Athletic Editor (3); Class Election Committee (3); Joint Committee (3).

M.I.T.A.A. (4); Institute Committee (4).

Thesis: Properties of Balloon Fabrics under Repeated Stresses.

(With R. A. Wilkins.)

Entered Freshman Year.



George Arthur Sackett, Revere, Mass.

Born October 12, 1896.

Chemical Engineering.

Prepared at Revere High School.

Technique Electoral Committee (2).

Thesis: A Method for the Direct Determination of Rubber Hydrocarbon in Vulcanized Rubber.

(With M. Seltzer.)

Entered Freshman Year.



DeRoss Salisbury, ΘΞ, Glendale, Cal.

Born February 13, 1886.

Engineering Administration.

Prepared at Marshalltown High School, Iowa, and University of Chicago.

Glee Club (1).

Entered Freshman Year.



Frederico Guillermo Sanchez, Santa Lucia, Orienta, Cuba.

Born September 28, 1890.

Mechanical Engineering.

Prepared at Phillips Andover Academy.

Mechanical Engineering Society (3, 4); Cosmopolitan Club (1, 2, 3, 4); Latin American Club (3, 4).

Thesis: Holding Power of Lag Screws in White Pine and Spruce.

(With N. F. Alvaré.)

Entered Freshman Year.



Alan Bridgman Sanger, Dorchester, Mass.

Born November 9, 1893.

Mining Engineering and Metallurgy.

Prepared at Hyde Park School.

Mining Society (2, 3, 4); Cosmopolitan Club (3, 4); Chess Club (1, 2, 3, 4), President (4), Team (1, 2, 3, 4), Executive Committee (2, 3).

Thesis: Losses of Gold during Cupellation in Fire Assay.

Entered Freshman Year.



Haigh Henry Sarafian, Lawrence, Mass.

Born August 7, 1894.

Chemistry.

Prepared at Euphrates College, Armenia.

Thesis: Changes in the Absorbing Property of Special Carbon.

Entered Freshman Year.



Joseph Tillou Sattels, Plainfield, N. J.

Born June 19, 1896.

Engineering Administration.

Prepared at Plainfield High School and Cornell University.

Entered Sophomore Year.



Albert Saunders, ΘΞ, Malden, Mass.

Born February 19, 1896.

Mechanical Engineering.

Prepared at Malden High School.

Mechanical Engineering Society, Executive Committee (3), President (4).

Banjo Club (3); Cadet Corps, Captain (3); Bulletin Board Committee, Chairman (4); Institute Committee (4).

Entered Freshman Year.



Alfred Francis Sawyer, Haverhill, Mass.

Born July 8, 1895.
Mechanical Engineering.
Prepared at Haverhill High School.
Mechanical Engineering Society (3, 4).
Enlisted for National Service.
Entered Sophomore Year.



Warren Joseph Scott, Cambridge, Mass.

Born June 17, 1896.
Sanitary Engineering.
Prepared at Cambridge Latin School.
Civil Engineering Society (4).
Entered Freshman Year.



Max Seltzer, Lexington, Mass.

Born November 8, 1898.
Chemical Engineering.
Prepared at Lexington High School.
Menorah Society (1, 2, 3, 4); Chemical Society (2, 3, 4).
Editorial Staff of the Tech Monthly (4); Editorial Board of the Tech (3, 4).

Thesis: A Method for the Direct Determination of Rubber Hydrocarbon in Vulcanized Rubber.
(With G. A. Sackett.)
Entered Freshman Year.



Edward Sidman, Dorchester, Mass.

Born September 13, 1895.

Mechanical Engineering.

Prepared at Boston English High and Lowell Institute.

Mechanical Engineering Society (2, 3, 4); Menorah Society (1, 2).

Entered Freshman Year.



Tse-sing Sih, B.S., Shanghai, China.

Born June 6, 1896.

Civil Engineering.

Prepared at Nanyang College, B.S.

Science Club (4); Defence Club, Manager (3).

Thesis: A Study of Methods Adopted for Water Supply and Sewage Disposal in the Various United States Cantonments.

Entered Junior Year.



Arthur Smith, Port Chester, N. Y.

Born August 22, 1895.

Chemical Engineering.

Prepared at Port Chester High] School] and Columbia University.

Chemical Society (2, 3, 4).

Thesis: Absorption of HCl and Air by Special Carbon B.

Entered Sophomore Year.



Richard Herbert Smith, B.S., Dillsboro, Ind.

Born January 15, 1894.

Engineering Administration.

Prepared at Aurora High School and Moores Hill College, Moores Hill, Ind.

Entered Sophomore Year.



Joseph Henry Stagg, Jr., ΔTΔ, Bridgeport, Conn.

Born January 2, 1895.

Engineering Administration.

Prepared at Bridgeport High School.

Corporation XV (3, 4).

Class Baseball Manager (1); Technology Monthly, Assistant Circulation Manager (2), Circulation Manager (3); Tech Show, Chorus (3, 4).

Entered Freshman Year.



Daniel Laurence Starr, Danbury, Conn.

Born November 5, 1896.

Sanitary Engineering.

Prepared at Danbury High School.

Entered Intensive Naval Architecture Course, February, 1918.

Entered Freshman Year.



Charles Currier Stockman, 2nd, Newburyport, Mass.

Born August 1, 1896.
Biology and Public Health.
Prepared at Newburyport High School.
Entered Freshman Year.



Peter MacDonald Strange, Auburndale, Mass.

Born February 20, 1896.
Engineering Administration.
Prepared at Portland High School, Maine.
Corporation XV (3, 4), Director (3); Cosmopolitan Club (3, 4), Treasurer (4).
Hare and Hounds (1, 2, 3); Tech Monthly, Treasurer (4).
Entered Freshman Year.



Harold Vaughn Sturtevant, East Lynn, Mass.

Born June 26, 1895.
Mechanical Engineering.
Prepared at Lynn Classical High School.
Mechanical Engineering Society (3, 4); Rifle Club (1, 2), Vice-President (2).
Class Crew (3).
The Tech, Assistant Circulation Manager (1).
Entered Freshman Year.



Charles Howell Tavener, Mattapan, Mass.

Born May 30, 1895.

Mechanical Engineering.

Prepared at Boston Latin School.

Mechanical Engineering Society (2, 3); Aero Club, Secretary (2), President (3); Cosmopolitan Club (3).

Technology Monthly, Publicity Manager (3).

Entered Freshman Year.



George Washington Thomas, Lowell, Mass.

Born February 22, 1897.

Civil Engineering.

Prepared at Lowell High School.

Civil Engineering Society (3, 4); Catholic Club (3, 4); Officers Club (2).

Cadet Corps, Lieutenant (2).

Thesis: An Experimental Determination of the Capacity of Island Pond, Hampstead, New Hampshire, with Respect to Water Power.

(With C. C. Carpenter.)

Entered Freshman Year.



Clarence Sydney Timanus, Kansas City, Mo.

Born March 20, 1892.

Civil Engineering.

Prepared at Central High School, Kansas City.

Civil Engineering Society (2, 3, 4); Rifle Club (3, 4).

Thesis: An Investigation of the Formulas for Evaporation from Water Surfaces with Special Reference to Data Contained in Water Supply Paper No. 279, United States Geological Survey.

Entered Freshman Year.



John Howard Tipton, ΣN, Elizabethton, Tenn.

Born April 30, 1897.
Electrical Engineering.
Prepared at Elizabethton High School and Georgia School of Technology.
Vectors; Electrical Engineering Society (4).
Entered Junior Year.



Frank Alva Travers, Haverhill, Mass.

Born March 9, 1897.
Chemical Engineering.
Prepared at Haverhill High School.
Glee Club (2).
Entered Freshman Year.



Carlton Everett Tucker, Whitman, Mass.

Born November 13, 1896.
Electrical Engineering.
Prepared at Whitman High School.
Electrical Engineering Society (3, 4); Officers Club (2).
Cadet Corps, Lieutenant (2).
Entered Freshman Year.



William Hugh Turner, Hyde Park, Mass.

Born June 18, 1894.

Mining Engineering and Metallurgy.

Prepared at Hartford Public High School, Hartford, Conn.

Mining Society (3, 4); Rifle Club (1).

Tug-o'-War (1); Treasurer (3); Class Wrestling Team (1).

Glee Club (3, 4); Finance Committee (3); Tech Show, Cast (2).

Entered Freshman Year.



John Pantelemon Vakhliotes, Boston, Mass.

Born August 15, 1890.

Electrical Engineering.

Prepared at Athens University and Harvard College.

Electrical Engineering Society (3, 4).

Entered Junior Year.



Robert Woods Van Kirk, Jr., ΦΒΕ, Chicago, Ill.

Born June 19, 1896.

Chemical Engineering.

Prepared at Newton High School.

Osiris; K_2S; Chemical Society (2, 3, 4).

Governing Board (3); Class President (4); Technique Electoral Committee (2); Relay Team (1, 2); Class Track Team (1, 2, 3, 4).

Institute Committee, Secretary (3), President (4); Joint National Service Committee, Secretary (3); T. C. A., Chairman Freshman Advisers (4); Varsity Track Team (1, 2, 3).

Thesis: Equilibria of the Higher Oxides of Manganese in Concentrated NaOH Solutions.

(With P. M. Dinkins and T. M. Knowland.)

Entered Freshman Year.



Alfred Benedict Vought, ΨΣ, Rutherford, N. J.

Born January 18, 1897.
Mechanical Engineering.
Prepared at Brooklyn Boys' High School and Brooklyn Polytechnic Institute.
Mechanical Engineering Society (3, 4).
Entered Junior Year.



Albert Charles Walker, ΣΦΕ, Denver, Colo.

Born July 26, 1893.
Chemical Engineering.
Prepared at University of Colorado.
Entered Senior Year.



Sibyl Walker, Salt Lake City, Utah.

Born February 20, 1896.
Geology.
Prepared at Rowland Hall.
Cleofan, Treasurer (3).
Class Secretary (1); Technique Electoral Committee (2).

Thesis: A Study of the Ores of Broken Hill, New South Wales.
Entered Freshman Year.



Frederick Arthur Washburn, ΦΣΚ, Dorchester, Mass.

Born September 4, 1893.

Electrical Engineering.

Prepared at Mechanic Arts High School and Lowell Institute.

Masque; Vectors; Rifle Club (1, 2, 3).

Finance Committee (3).

Tech Show, Assistant Business Manager (1, 2), Treasurer (3), Acting General Manager (4); Institute Committee (4).

Enlisted for National Service.

Entered Freshman Year.



Charles Henry Watt, Lexington, Mass.

Born January 15, 1896.

Mining Engineering and Metallurgy.

Prepared at Lexington High School.

Mining Engineering Society (2, 3).

Vice-President (3); Governing Board (3); Class Dinner Committee, Chairman (4); Class Football Team (1, 2); Varsity Hockey Team (2, 3).

Thesis: Concentration of a Virginia Copper Ore by Flotation.

Entered Freshman Year.



Ralph Leslie Whitcomb, Sharon, Mass.

Born January 1, 1897.

Mechanical Engineering.

Prepared at Chauncy Hall School.

Mechanical Engineering Society (3, 4); Chauncy Hall Club (1, 2); Officers Club (2).

Cadet Corps, Lieutenant (2).

Entered Freshman Year.



Benjamin Lee Whorf, Winthrop, Mass.

Born April 24, 1897.
Chemical Engineering.
Prepared at Winthrop High School.
Chemical Society (3, 4).
Entered Freshman Year.



Sumner Kennard Wiley, Somerville, Mass.

Born February 26, 1896.
Architectural Engineering.
Prepared at Somerville High School.
Architectural Society (2, 3), Vice-President (4); Architectural Engineering Society (2), Secretary (3).
Class Football (1); Tug-o'-War (2).
Entered Intensive Naval Architecture Course, February, 1918.
Entered Freshman Year.



Richard Alfred Wilkins, ΦBE, Brookline, Mass.

Born September 12, 1896.
Chemical Engineering.
Prepared at Chauncy Hall School.
Osiris; K_2S; Walker Club.
Technique Electoral Committee, Secretary-Treasurer (2); Technique, Treasurer (3); Class Treasurer (4).
Joint Committee on National Defence, Chairman (3); Finance Committee, Chairman (4).

Thesis: Properties of Balloon Fabrics under Repeated Stresses.
(With W. P. Ryan.)
Entered Freshman Year.



John Albert Williams, ΔKE, Baltimore, Md.

Born June 28, 1896.
Architectural Engineering.
Prepared at Baltimore Polytechnic Institute.
Entered Intensive Naval Architecture Course, February, 1918.
Entered Sophomore Year.



Royal Barry Wills, ΑΧΑ, Melrose, Mass.

Born August 21, 1895.
Architectural Engineering.
Prepared at Melrose High School.
Architectural Society (2, 4); Architectural Engineering Society (3).
Technique, Assistant Art Editor (3); Tech Monthly Staff Artist (4).
Entered Intensive Naval Architecture Course, February, 1918.
Entered Freshman Year.



Walter Chadbourne Wilson, ΦBE, Lowell, Mass.

Born May 21, 1896.
Engineering Administration.
Prepared at Lowell High School.
Corporation XV (3, 4), Secretary (4).
Class Baseball (1, 2).
Entered Freshman Year.



Arthur Elmer Windle, ΦΣΚ, Montello, Mass.

Born July 4, 1892.

Mechanical Engineering.

Prepared at Brockton High School.

Mechanical Engineering Society (2, 3, 4), Governing Board (3); Aero Club (4).

Chairman, Sub-Committee on Preparedness, Naval Affairs (3).

Entered Freshman Year.



Harrison Loring Wirt, Brookline, Mass.

Born October 26, 1895.

Naval Architecture and Marine Engineering.

Prepared at Phillips Andover Academy.

Naval Architectural Society (2, 3, 4), Vice-President (4); Rifle Club (3).

Tug-o'-War (1, 2); Class Wrestling (1, 2), Captain (1); Class Crew (1, 2, 3).

Varsity Crew, Captain (2); Varsity Wrestling Team (2, 3); Cadet Corps, Lieutenant (2), Captain (3); Engineer Corps, Lieutenant (3); Summer Training Unit, Camp Cunningham, Captain (3); Advanced Battalion, Captain (4).

Thesis: Design of the Reinforcement for a Concrete Ship.

(With N. T. Catlin.)

Entered Freshman Year.



Zeng-tse-Wong, Shanghai, China.

Born October 23, 1897.

Mechanical Engineering and Electrical Engineering.

Prepared at Nan Yang College, Shanghai.

Mechanical Engineering Society (3, 4); Electrical Engineering Society (4); Aero Club (4); Chinese Club (3, 4).

Entered Junior Year.



Lester Northrop Woodland, Melrose Highlands, Mass.

Born September 24, 1894.

Architecture.

Prepared at Melrose High School and Chauncy Hall School.

Architectural Society (2, 3, 4); Architectural Engineering Society (2, 3, 4), Executive Committee (3), Secretary (4), Chauncy Hall Club (1, 2, 3).

Entered Freshman Year.



Theodore Paul Wright, ΣN, B.S., Cambridge, Mass.

Born May 25, 1895.

Architecture.

Prepared at Galesburg High School, Galesburg, Ill., and Lombard College, B.S., Galesburg.

Architectural Society, Executive Committee (4); Architectural Engineering Society, Treasurer (3).

Varsity Track Team (3, 4), Captain (4); Wearer of the T.

Entered Junior Year.



Ching-Lieh Wu, Chekiang, China.

Born February 19, 1895.

Chemical Engineering.

Prepared at Tsing Hua Academy, Peking, China.

Entered Sophomore Year.

William Wyer, ΒΘΠ, ΦΒΚ, A.B., Albany, N. Y.

Born April 13, 1895.

Civil Engineering.

Prepared at Albany Academy and Yale University.

Corporation XV (3); Civil Engineering Society, Treasurer (3).

Musical Clubs (3, 4); Tennis Team (3); Dormitory Committee, Chairman (4).

Thesis: A Project for the Installation of Block Signals on the Boston & Maine Railroad, North Cambridge to Gleason Junction, on the Northampton Division.

(With J. H. Chase.)

Entered Junior Year.



Ira Randolph Young, Waverley, Mass.

Born January 23, 1897.

Mechanical Engineering.

Prepared at Belmont High School.

Mechanical Engineering Society (2, 3, 4).

Entered Intensive Naval Architecture Course, February, 1918.

Entered Freshman Year.



Alfredo de Zubiria S., ΦΒΕ, Cartegena, Columbia.

Born March 6, 1895.

Chemistry.

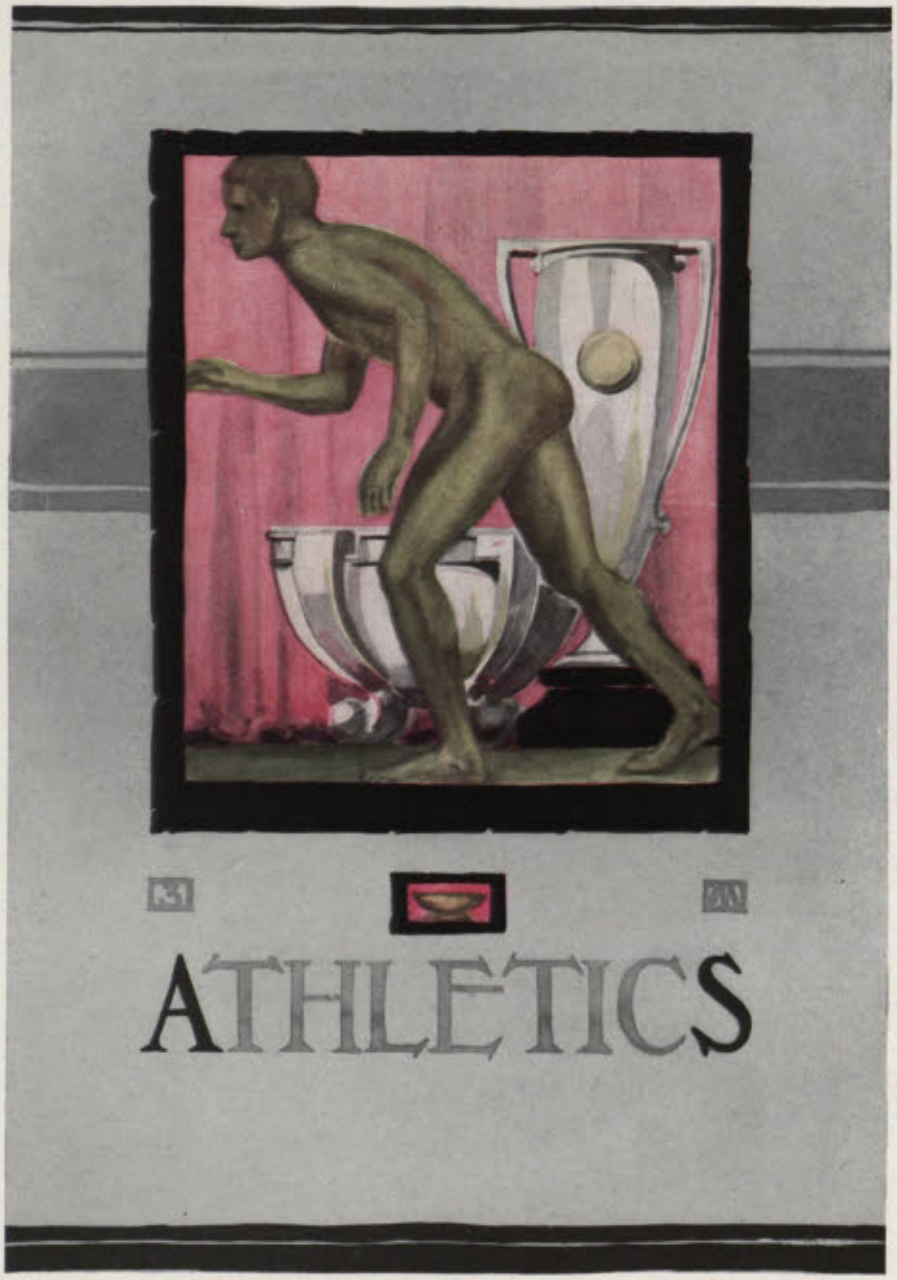
Prepared at Worcester Academy, Worcester.

Chemical Society (2, 3, 4), Treasurer (4); Latin American Club, Vice-President (3, 4); Catholic Club, Vice-President (3), Cosmopolitan Club (1, 2).

Track Team (3, 4); Cross-Country Team (4); Tech Show (1).

Entered Freshman Year.





ATHLETICS

Athletics at Technology

UPON the entry of the United States in the war against Germany, college athletics suffered a severe setback. Indications at the beginning of the year pointed to 1917 as producing some of the greatest track and field athletes in the world. Intercollegiate baseball and football, as well as the other major sports, promised interesting competition; but upon the declaration of war a panic seemed to strike the college world, and an immediate canceling of many impending athletic dates resulted. Without first investigating the advisability of such hasty action it seemed to most college boards that patriotism could best be shown by exclusive war preparation.

In apparent contradiction to this widespread view Technology did not cancel her track schedules but proceeded to fill her athletic program as in normal times. The continuance of athletics on a moderate scale at the United States Military and Naval Academies and the warning of President Wilson that athletic training was essential in preparation for war service, soon brought the leading colleges to their senses. Intercollegiate athletics were then resumed on a scale less spectacular but much more sane than in previous times. In the meantime "informal" teams, safeguarders of reputation and prestige, appeared and only relinquished their hold upon the demands of the college student bodies, who with true athletic spirit desired sport for sport's sake. As a result a much higher standard than expected has been reached, and a truer spirit of athletics for all rather than for the few has been developed.

Statistics show that, of the representative groups of college men in war service, athletes are far in the lead and are best fitted to serve their country. This in itself would appear a justification for the continuation of athletics at all times. On the other hand, for those who have found it wiser to remain in college, it is undisputed that preparation for government service holds a position of priority. For the technical student, whose curriculum serves as preparation, or for the classical student who prepares by added military training, the need of competitive exercise, characteristic of the American people, can be filled only by athletic contests.

As a result of continuing a normal athletic program Technology has gained two New England championships, one in track and field events and the other in cross-country. The swimming team, undefeated in three years, has maintained what is virtually a championship. The wrestling team and the relay teams have been held back by the inability of their managements to arrange intercollegiate schedules; while financial difficulties made the sanctioning of varsity hockey impossible.

Technology athletics, governed solely by a combined graduate and undergraduate body, have been conducted during the past year, as previously, with the view of doing the greatest good for the greatest number. The wisdom of this policy is fittingly expressed in President Maclaurin's Field Day message — "The maintenance of a sane athletic policy here is due to the good sense of the students and the effective guidance of loyal alumni. The conditions of to-day give special emphasis to two considerations: first, the need of sound physical basis for all activity, whether the activity be directed to warlike or peaceful ends, and second, the duty of service and the subordination of selfish interests to the general good."

Advisory Council



Pierce Worcester Dinkins Rockwell Ryan Allen

Chairman
J. Arnold Rockwell, '96

Secretary
Allen W. Rowe, '01

Treasurer
Henry E. Worcester, '97

REPRESENTATIVES FROM THE ALUMNI

Lawrence H. Allen, '07
J. Arnold Rockwell, '96
Allen W. Rowe, '01
Henry E. Worcester, '97

REPRESENTATIVES FROM THE ATHLETIC ASSOCIATION

Philip M. Dinkins, '18
Marvin Pierce, '18
William P. Ryan, '18

M. I. T. A. A.



Ryan Kimball | Knowland McClintic | Pierce Scheeline | McFarland Dinkins

President
William Patrick Ryan, '18

Secretary
Wirt Fuller Kimball, '19

Treasurer
Paul Daniel Scheeline, '19

MEMBERS

REPRESENTATIVES FROM ADVISORY COUNCIL

William Patrick Ryan, '18 — Philip Moss Dinkins, '18 — Marvin Pierce, '18

Manager Track Team
*Howard Hale McClintic, Jr., '19
Carleton Hart Talcott, '20

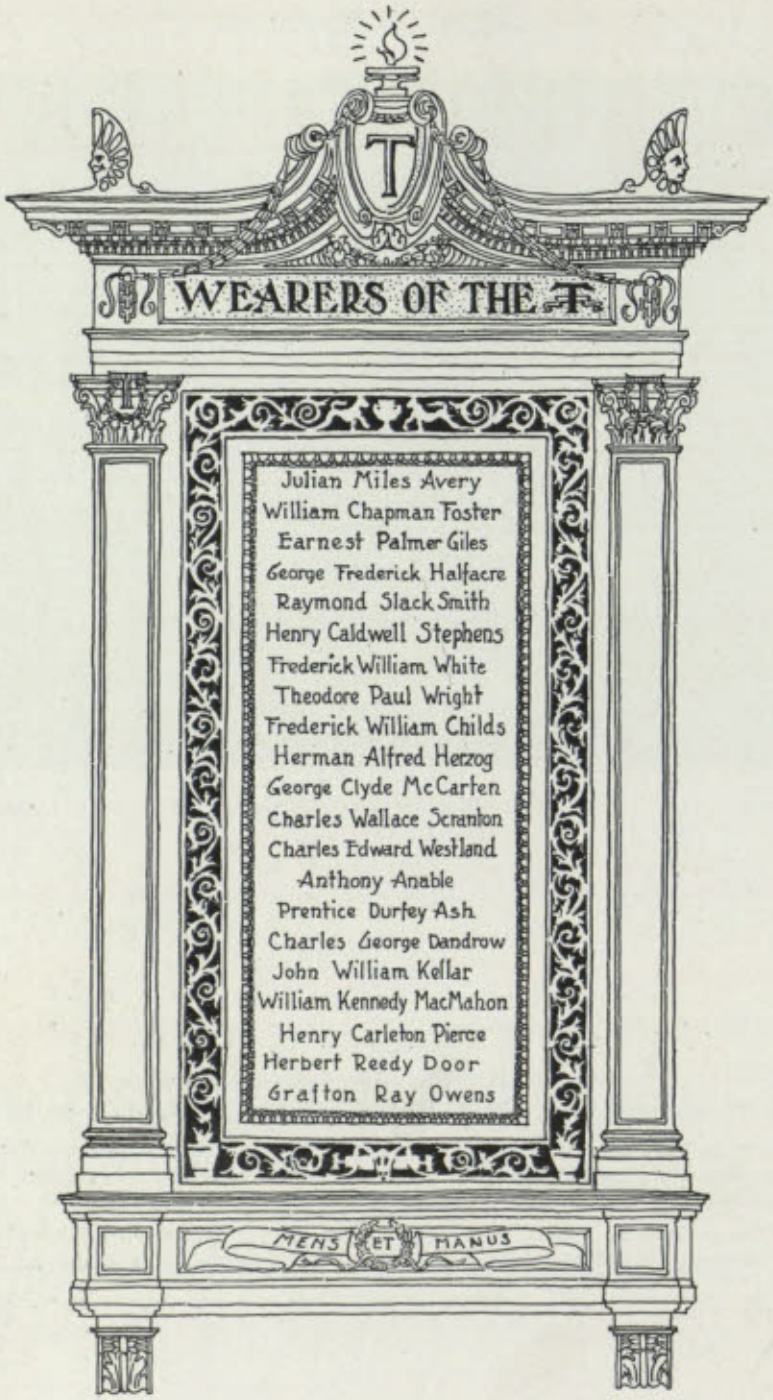
Manager Swimming Team
Paul Daniel Scheeline, '19

Manager Wrestling Team
David Meconkey McFarland, '18

Manager Rifle Team
Thomas Millbury Knowland, '18

Manager Tennis Team
Wirt Fuller Kimball, '19

*Resigned


WEARERS OF THE T
Julian Miles Avery
William Chapman Foster
Earnest Palmer Giles
George Frederick Halfacre
Raymond Slack Smith
Henry Caldwell Stephens
Frederick William White
Theodore Paul Wright
Frederick William Childs
Herman Alfred Herzog
George Clyde McCarten
Charles Wallace Scranton
Charles Edward Westland
Anthony Anable
Prentice Durfey Ash
Charles George Dandrow
John William Kellar
William Kennedy MacMahon
Henry Carleton Pierce
Herbert Reedy Door
Grafton Ray Owens
MENS ET MANUS



TRACK TEAM

Track Season, 1917

THE track season of 1917 was one upon which Technology followers of track sports may long look back with pride and satisfaction. For the first time since 1894 Technology won the N. E. I. C. A. A. championship and also made a clean sweep in a dual meet with Brown University. It was unfortunate that the war crisis so interfered with the track activities of academic colleges as to make it necessary for nine out of the seventeen colleges of the New England Association to abandon their major sports. However, that in no way should belittle the success of our track team which presented a well balanced group of athletes with form and speed enough to have been one of the strongest contenders under normal conditions.

After a successful indoor season the athletes immediately took to the cinder path in preparation for the first meet, the Spring Interclass Meet, which was held the morning of April 20. The Juniors, conceded last place before the events were contested, turned the tables and won with a total score of 44 points. The Freshmen had the second highest score of 39⅝ points, the Sophomores were a close third with 39⅓, while the Seniors trailed with 29⅝ points. Despite the adverse weather conditions the times were good, and with the customary offer of cups to the individual winners the competition was keen. In the four-team relay event the stars of each class showed bursts of speed, but after the eighth relay the victorious 1920 Field Day team showed its superiority and won in the fast time of 4 minutes and 52⅖ seconds.



CAPTAIN O'HARA

The dual track meet schedule had



MANAGER WHITE

1917 Track Team



Talcott, Asst. Mgr. Bent Anable Scranton Ash Sewall McClintic, Asst. Mgr. Smith
McCarten White, Mgr. Kanaly, Coach Westland Dandrow Kellar Herzog Benson Wright
Avery Childs Loomis Sullivan O'Hara, Capt. Halfacre Stephens Russert Brickett
de Zubiria MacMahon Pierce Bossert

dates with Maine and Bowdoin which promised great interest, but these colleges were forced to cancel the meets owing to war activities. However, a meet was arranged with Brown, the second strongest contender for New England honors.

The meet was held on the Technology Field, May 11. The Institute had a well-balanced team which scored in every event, showing mastery in the sprints, distance runs, and the field events, while Brown led in the hurdle and weight events. Considering the soft track and the muddy pits the performances were good, and one M. I. T. record was equalled. In running the 220-yard dash in 22 seconds O'Hara equalled the record for that event made by C. W. Gram in 1909, but because of the wind at his back, and the fact that there were only two timers, the record was not allowed. Pollard, the athletic idol of Brown, was unable to compete, but Isaacs of that university ably won both hurdle races. Technology now appeared able to fulfill her ambition and win the New England Intercollegiates which were to be held the following week.

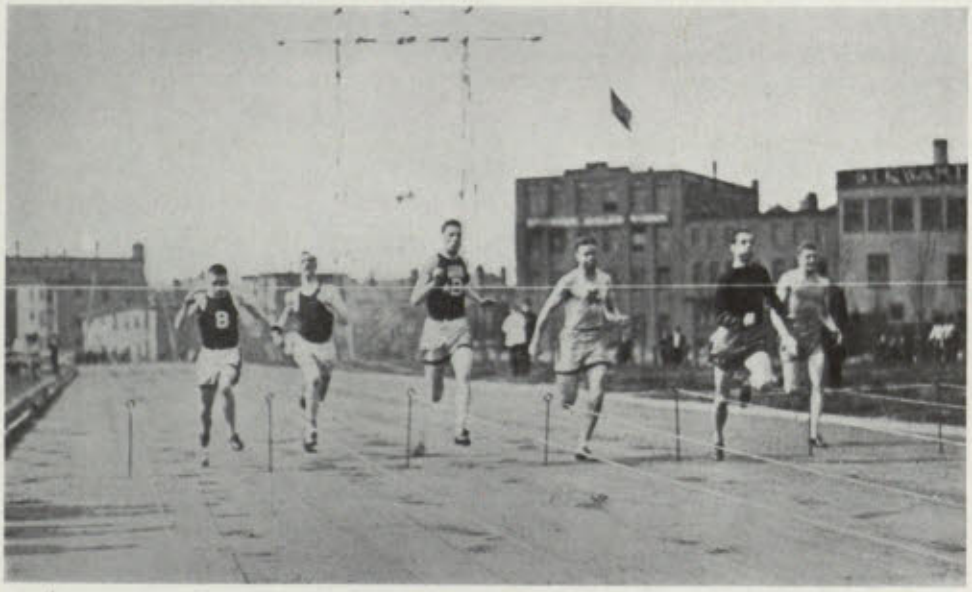
The N. E. I. C. A. A. meet was held May 19, on the Technology Field under M. I. T. management. With eight of the colleges of the New England Association represented, Technology won the championship, scoring 61 points to Brown's



McCarten winning half-mile, N. E. I. A. A. Meet

second place total of 50 points. The Brown team was dangerous at all times, the result being in doubt till Technology's high jumpers made a clean sweep, taking all four places. No greater tribute could be paid Coach Kanaly's training than to say that his team scored six firsts and placed in every event except the high hurdles.

No records were broken, but the times were good considering the strong wind which blew across the field. Captain O'Hara, running in his last meet for Technology, won the hundred-yard dash. With a bad wind McCarten ran the half mile in 1 minute and 59$\frac{3}{5}$ seconds and won his well-deserved T. Herzog was unchallenged in the mile and easily won his event, while Halfacre, pushed to the limit by his Freshman teammate, MacMahon, also scored a first. Wright showed real form in winning the pole vault against the wind and came within four inches of the M. I. T. record. Improvement was shown by the Technology weight men, though these events were not up to the standard of the running events. Pollard of Brown was the popular



100-Yard Dash, N. E. I. A. A. Meet

White (B), third Mullane (B), second Foley (H. C.), fourth O'Hara (T), first

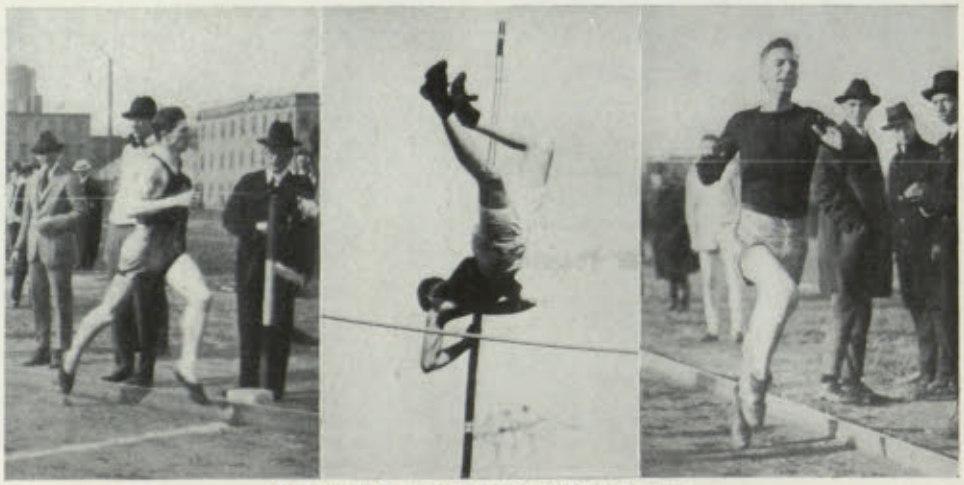
star of the meet, winning both hurdle events and placing third in the broad jump.

Technology was invited to enter a team in the I. C. A. A. A. A. meet scheduled to be held at Philadelphia, but this annual meeting of all college track athletes was prevented by the war crisis, and Technology thus completed her most successful season with the winning of the New England track championship.

The prospects for this year's track team are very auspicious, and the coming season may prove to be as successful as the past season. The possibility of winning another New England championship is uncertain; the chances depending on the number of reliable men who go into government service before the meets, and also on the number and quality of the other college teams in the intercollegiate meetings. It may, however, be confidently expected that Technology will present a track team which in the final summary may be found among the leaders.

An informal invitation has been extended to Technology by Cornell for a track meet at Ithaca on May 4, a date for which formal arrangements will no doubt be concluded. This invitation from one of the "Big Four" in track athletics is an unprecedented compliment, and strongly indicates the present ranking of M. I. T. in the track world. For May 11 tentative arrangements are being made for a meet with either Brown, Dartmouth, or Harvard. The annual N. E. I. C. A. A. track and field meet will be held May 18 on Technology Field. The I. C. A. A. A. A. track and field meet will be held this spring for the first time since 1916, and this year it is scheduled to be contested on May 31 and June 1 at Philadelphia.

The success of the M. I. T. management in supervising the New England meet on Technology Field last year, the granting of the same meet on our own field again this year, and the election of Manager C. H. Talcott, '20, to the Executive Committee of the I. C. A. A. A. A. Conference, are points all attesting to the high standard set by the present track team and those of the past few years.



First Place Winners for M.I.T., N. E. I. A. A. Meet

Halfacre — Two Miles | Wright— Pole Vault | Herzog — One Mile



Place Winners for M. I. T., N. E. I. A. A. Meet

Avery, second in Broad Jump — Loomis, third in 440 Yards — Benson, third in Shot Put

In past years there has often been the complaint of lack of opportunities for judging the abilities of the track men in awarding the T. With no disparagement to the fine work of the 1917 track team, the experience of the past season seems to have shown that under abnormal conditions the present ruling may be too unlimited. A committee of the Advisory Council now drawing up definite rules for the award of insignia will no doubt make the award of T to point winners in the New England's at the discretion of the Advisory Council, which should result in even greater satisfaction and justice to all those interested in track.



Murphy, Brown, winning 440-Yard Dash

Haselton, W. P. I., winner of Hammer Throw

BROWN *vs.* TECHNOLOGY

Technology Field **May 12, 1917**

Event	*Winner*	*Second*	*Third*	*Result*	*T.*	*B.*
100 Yards	O'Hara (T.)	Mullane (B.)	Bossert (T.)	:10⅗	6	3
220 Yards	O'Hara (T.)	Anable (T.)	Mullane (B.)	:22*	8	1
440 Yards	Murphy (B.)	Carder (B.)	Doon (T.)	:51⅗	1	8
880 Yards	McCarten (T.)	Stephens (T.)	Westland (T.)	2:03⅗	9	0
One Mile	Herzog (T.)	McCarten (T.)	Carr (B.)	4:35⅖	8	1
Two Miles	Halfacre (T.)	MacMahon (T.)	de Zubiria (T.)	10:12⅗	9	0
120-Yard Hurdles	Isaac (B.)	Scranton (T.)	Sewall (T.)	:16⅗	4	5
220-Yard Hurdles	Isaac (B.)	Scranton (T.)	Brickett (T.)	:26⅕	4	5
High Jump	Ash (T.)	Sullivan (T.) / Pierce (T.)	Tie	5'9"	9	0
Broad Jump	Wright (T.)	Matthews(T.) / Peters (B)	Tie	21'1"	7	2
Pole Vault	Wright (T.)	Ames (B.)	Brown (B.)	10'9"	5	4
Shot Put	Nichols (B.)	Sinclair (B.)	Ash (T.)	39'	1	8
Hammer Throw	Dandrow (T.)	Sinclair (B.)	DuVernet (T.)	114'7"	6	3
Discus Throw	Nichols (B.)	Armstrong (B.)	Keller (T.)	116'2"	1	8
					—	—
					78	48

* Equals M. I. T. A. A. Record, but not allowed because of wind.



High Hurdles, N. E. I. A. A. Meet

Isaac, Brown; third Taylor, W. P. I.; second Pollard, Brown; first

N. E. I. C. A. A. MEET

Technology Field **May 19, 1917**

Event	*Winner*	*Second*	*Third*	*Fourth*	*Result*
100 Yards	O'Hara Technology	Mullane Brown	White Brown	Poley Holy Cross	:10⅕
220 Yards	Landers Tufts	Anable Technology	Mullane Brown	Goldstein Trinity	:22⅘
440 Yards	Murphy Brown	Mahoney Holy Cross	Loomis Technology	Carder Brown	:51⅗
880 Yards	McCarten Technology	Burke Holy Cross	Stephens Technology	Westland Technology	1:59⅗
One Mile	Herzog Technology	Jones Middlebury	Francis W. P. I.	Crouch Brown	4:30⅕
Two Miles	Halfacre Technology	MacMahon Technology	Jones Middlebury	Garland W. P. I.	9:54⅗
120-Yard Hurdles	Pollard Brown	Taylor W. P. I.	Isaac Brown	Lee Middlebury	:16⅗
220-Yard Hurdles	Pollard Brown	Isaac Brown	Taylor W. P. I.	Scranton Technology	:26
High Jump	Sullivan Technology Ash Technology	Tie	Childs Technology Pierce Technology	Tie	5'9½"
Broad Jump	Bjorn Trinity	Avery Technology	Pollard Brown	Wright Technology	22'4"
Pole Vault	Wright Technology	Ames Brown	Lee Middlebury	Hamlin Boston College	11'3"
Shot Put	Sinclair Brown	Nichols Brown	Benson Technology	O'Connell Holy Cross	39'4½"
Hammer Throw	Haselton W. P. I.	Dandrow Technology	Sinclair Brown	R. S. Smith Technology	105'4½"
Discus Throw	Nichols Brown	Kellar Technology	McNamara Boston College	Armstrong Brown	117'2"

NEW ENGLAND INTERCOLLEGIATES, SUMMARY OF POINTS

	100	*220*	*440*	*880*	*M.*	*2M.*	*H.H.*	*L.H.*	*H.J.*	*B.J.*	*P.V.*	*S.P.*	*H.T.*	*D.T.*	*Totals*
Technology	5	3	2	8	5	8		1	11	4	5	2	4	3	61
Brown	5	2	6		1		7	8		2	3	8	2	6	50
W. P. I.					2	1	3	2					5		13
Holy Cross	1		3	3								1			8
Middlebury					3	2	1				2				8
Trinity		1								5					6
Tufts		5													5
Boston College											1			2	3



RECORDS

COMPARATIVE TRACK RECORDS

Event	*I. C. A. A. A. A.*	*Record*	*N. E. I. A. A.*	*Record*	*M. I. T. A. A.*	*Record*
100 Yards	B. J. Wefers Georgetown	:9⅘	A. B. Kelly Holy Cross	:9⅘	R. S. Franklin 1903	:10⅕
	R. C. Craige Michigan				C. W. Loomis 1915	
220 Yards	B. J. Wefers Georgetown	:21⅕	A. B. Kelly Holy Cross	:22⅖	C. W. Gram 1909	:22
	R. C. Craige Michigan					
	D. F. Lippincott Pennsylvania					
440 Yards	J. E. Meredith Pennsylvania	:47⅗	J. D. Lester Williams	:49⅘	T. H. Guething 1914	:50⅘
					C. T. Guething 1916	1:58
880 Yards	J. E. Meredith Pennsylvania	1:53	N. S. Taber Brown	1:55⅘	P. D. White 1911	
One Mile	J. P. Jones Cornell	4:14⅖	N. S. Taber Brown	4:18⅘	R. G. Brown 1915	4:24⅕
Two Miles	J. S. Hoffmire Cornell	9:23⅕	R. W. Atwater Tufts	9:35⅘	F. L. Cook 1915	9:35⅕
120-Yard Hurdles	F. S. Murray Leland Stanford	:15	A. B. Shaw Dartmouth	:15⅖	E. L. Ovington 1904	:16⅖
220-Yard Hurdles	A. C. Kraenzlein Pennsylvania	:23⅘	W. A. Savage Bowdoin	:24⅗	G. P. Burch 1899	:24⅕
	J. I. Wendell Wesleyan					
Shot Put	R. L. Beatty Columbia	48′10¾″	L. A. Whitney Dartmouth	47′10½″	P. H. Leslie 1914	42′¾″
Hammer Throw	H. P. Bailey Maine	165′¾″	H. P. Bailey Maine	164′8¼″	L. G. Metcalf 1912	130′10″
Discus Throw			L. A. Whitney Dartmouth	135′5⁹⁄₁₀″	O. V. Chamberlain 1911	121′5⅛″
High Jump	W. M. Oler Yale	6′4½″	P. W. Dalrymple Technology	6′⅞″	C. D. Heywood 1893	6′1½″
			H. B. Enright Dartmouth			
Broad Jump	A. C. Kraenzlein Pennsylvania	24′4½″	H. T. Worthington Dartmouth	23′10½″	C. S. Reed 1916	22′7¼″
Pole Vault	R. A. Gardner Yale	13′1″	M. S. Wright Dartmouth	12′6¼″	W. C. Salisbury 1911	11′7″



CROSS COUNTRY

Cross-Country Season

THE 1917 Cross-Country Season proved a banner one for M. I. T. A victory over Harvard, the defeat of Dartmouth on her own course, the championship in the New Englands, and a respectable position in the Intercollegiate Cross-Country Meet comprised a very successful season. Graduation and enlistments did not seriously change the make-up of the team from that of the previous year. By graduation, Dodge, the 1916 Captain, and by war service, Coward, '20, and Hamilton, '18, were lost; but the opening of the season found three experienced veterans, Halfacre, Herzog, and McCarten, awaiting the call. Among the other candidates who still had reputations to earn, and who lived up to their early promise, were Dorr, '20; Owens, '20; and Carpenter, '21.

As usual several hare-and-hound chases furnished preliminary training for the actual cross-country work which opened with the annual handicap cross-country run over the Wakefield course. With appropriate handicapping for the faster men, the race furnished interesting competition and gave promise of a well-balanced team for the season.

The first intercollegiate competition was a race over the Belmont course against Harvard, which resulted in a close 26 to 31 victory for Technology. Each team started fifteen men, the first five of each counting in the scoring. Captain Lewis of Harvard led Captain Herzog to the tape by the safe margin of 25⅗ seconds. Technology was without the services of Halfacre, who was not up to running form, but by placing second, third, sixth, seventh, and eighth, M. I. T. won.

ANNUAL HANDICAP CROSS-COUNTRY RUN

Wakefield Course — **October 20, 1917**

Distance, 7½ miles

Order of finish	*Handicap*	*Actual Time*
H. R. Dorr, '20	3 min.	46 min. 50 sec.
C. L. Stone, '21	4 min. 30 sec.	48 min. 26 sec.
A. W. Miller, '20	4 min. 30 sec.	48 min. 27 sec.
R. Rimbach, '18	4 min.	49 min. 14 sec.
J. F. Hennessy, '21	5 min.	49 min. 29 sec.
Order of finish by actual time		
H. A. Herzog, '19	Scratch	44 min. 57 sec.
H. L. Smith, Grad.	45 sec.	46 min. 37 sec.
J. M. Hanley, '18	1 min. 15 sec.	46 min. 39 sec.
H. R. Dorr, '20	3 min.	46 min. 50 sec.
G. C. McCarten, '19 } *Tie*	45 sec.	46 min. 55 sec.
D. F. Carpenter, '21 }	1 min. 30 sec.	

First Prize won by H. R. Dorr, '20

Time prize won by H. A. Herzog, '19

Record for Wakefield Course, 41 min. 36 sec. Held by A. F. Nye, '14.

1917 Cross-Country Team



Dorr de Zubiria Dyke Carpenter
Talcott, Asst. Mgr. McCarten Herzog, Capt. Halfacre Kanaly, Coach

HARVARD *vs.* TECHNOLOGY

Belmont Course **October 27, 1917**

Distance, 6 miles Time, 35 minutes, 53⅘ seconds

Team Scores

Technology	2	3	6	7	8	=	26
Harvard	1	4	5	10	11	=	31

Individual Winners

1. Lewis, Harvard
2. Herzog, Technology
3. McCarten, Technology
4. Goodwin, Harvard
5. Duggan, Harvard

Scoring Technology Team

2. H. A. Herzog, 1919
3. G. C. McCarten, 1919
6. H. R. Dorr, 1920
7. D. F. Carpenter, 1921
8. G. R. Owens, 1920

DARTMOUTH *vs.* TECHNOLOGY

Hanover Course **November 3, 1917**

Distance, 5 miles — Time, 30 minutes, 13 seconds

Team Scores

Technology	1	4	5	6	8	=	24
Dartmouth	2	3	7	9	10	=	31

Individual Winners

1. Herzog, Technology
2. Gerrish, Dartmouth
3. Avery, Dartmouth
4. Halfacre, Technology
5. McCarten, Technology

Scoring Technology Team

1. H. A. Herzog, 1919
4. G. F. Halfacre, 1918
5. G. C. McCarten, 1919
6. H. R. Dorr, 1920
8. D. F. Carpenter, 1921

Over the Hanover course, probably the hardest hill-and-dale course in New England, Technology defeated the Dartmouth team. To our team, accustomed to more level running, the race resembled a mountain-climbing contest; but nevertheless they had the punch for a 24 to 31 victory. The Dartmouth team, coached to watch the M. I. T. leaders, went away at the start like a two-twenty, but at the two-mile mark the Technology runners were well placed and on their way to their second victory of the season. At the beginning of the final mile Herzog had 300 yards to make up on Captain Gerrish of Dartmouth, but was equal to it, and finished with a five-second lead. Halfacre, McCarten, Dorr, and Carpenter finished fourth, fifth, sixth, and eighth, respectively, showing a well-balanced team which now began to loom up as possible New England champions.



Start of N. E. I. A. A. Cross-Country Race, Franklin Park

True to prophecy Technology won the well-deserved New England championship over the Franklin Park course. With teams from Bowdoin, Williams, Tufts, Boston College, and M. I. T. in the field, Technology won with a total score of 32, Bowdoin finishing second with 40 points. The individual honors went to Goodwin of Bowdoin, a former Wakefield High runner. Technology's first five men to score finished in second, fourth, fifth, ninth, and twelfth places. Halfacre set the pace for the field for the first one and a half miles, and after being forced to alternate the lead several times with Goodwin, settled down into second place and finished sixty yards behind the Bowdoin winner. Although the usual number of colleges were not entered, the race was hard fought and the championship undecided till Technology's fifth man placed ahead of the fifth Bowdoin runner.

The next and final event of the season was the I. C. A. A. A. A. Cross-Country Meet at Van Cortlandt Park, New York. The team victory went to the University of Pennsylvania. Cornell, who has lost this meet only four times in the last nineteen years, had to be content with the winning of first place by Dresser, the captain of the Cornell team. Technology went into the meet hopeful, but with many misgivings, for freshmen were ineligible, and Herzog was kept out of the race by a bad ankle. With the exception of Halfacre and McCarten the team did not run as well as might have been expected, and consequently Technology was forced to accept fourth place. Six of the best college teams were entered, and the race was one of the most successful and closely contested events in intercollegiate cross country held in recent years. Dresser of Cornell led all the way and was threatened only twice, covering the six miles in 33 minutes flat. Halfacre ran his last cross-country race for M. I. T. and made an excellent showing. He ran in second place for the first four miles and gave way only to the superior running of Glover of Pennsylvania to finish in third place. McCarten showed his calibre in fast company and finished fifth.

The war showed its effects in the cross-country work of colleges in general, but Technology had a team and followed a schedule which was the most successful in many years.



Start of the I. C. A. A. A. A. Cross-Country Meet, Van Cortlandt Park, New York

N. E. I. C. A. A. MEET

Franklin Park Course — **November 17, 1917**

Distance, 5 miles — Time, 29 minutes, 8 seconds

Summary of Points

Technology	2	4	5	9	12	=	32
Bowdoin	1	3	7	8	21	=	40
Williams	6	11	15	16	18	=	66
Tufts	14	19	22	23	27	=	105

Boston College — no total, only four finishers.

Individual Winners

1. Goodwin, Bowdoin
2. Halfacre, Technology
3. Cleaves, Bowdoin
4. McCarten, Technology
5. Herzog, Technology

Scoring Technology Team

2. G. F. Halfacre, 1918
4. G. C. McCarten, 1919
5. H. A. Herzog, 1919
9. H. R. Dorr, 1920
12. G. R. Owens, 1920

I. C. A. A. A. A. A. MEET

Van Cortlandt Park Course — **November 24, 1917**

Distance, 6 miles — Time, 33 minutes

Summary of Points

Pennsylvania	2	4	8	10	14	=	38
Cornell	1	11	12	13	18	=	55
Columbia	7	9	15	21	22	=	74
Technology	3	5	24	26	27	=	85
Dartmouth	6	17	20	25	28	=	96

C. C. N. Y. also entered.

Individual Winners

1. Dresser, Cornell
2. Glover, Penn.
3. Halfacre, Technology
4. McHale, Penn.
5. McCarten, Technology

Scoring Technology Team

3. G. F. Halfacre, 1918
5. G. C. McCarten, 1919
24. A. de Zubiria, 1918
26. R. Rimbach, 1918
27. G. R. Owens, 1920



RELAY TEAM

Relay Season

WITH two New England championships on their belt the track men took to the board track soon after Christmas in preparation for the relay season. The four-mile and two-mile teams were practically unchanged from the previous year, while the losses in the one-mile team were satisfactorily bolstered up by the usual additions from the freshman class. By the dropping of the I. C. A. A. A. A. indoor meet this year, as well as by the general upset in intercollegiate track athletics, the prospects for relay conquests were slightly dampened. However, the victories of the three relay teams entered in the annual B. A. A. games and the hoped-for triumphs in the University of Pennsylvania relay carnival stand as evidence of a successful though limited relay season.

BOSTON ATHLETIC ASSOCIATION GAMES

Mechanics Hall **February 2, 1918**

	Time
One-Mile Team	
Technology defeated Harvard	3 minutes, 20⅘ seconds
Two-Mile Team	
Technology defeated Dartmouth	7 minutes, 35⅘ seconds
Freshmen Mile Team	
Technology, 1921, defeated Holy Cross, 1921	3 minutes 33⅘ seconds

In the B. A. A. meet the varsity one-mile team was matched against Harvard and the two-mile team raced with the Dartmouth long-distance team, while the freshman mile quartet opposed the Holy Cross freshmen. Harvard was humbled in a feature of the evening's racing. Avery, running second for Technology, came from the rear with a burst of speed and, placing M. I. T. in the lead, the race was won in easy fashion. The two-mile relay against Dartmouth started off as a closely matched race, but in a sprint for the lead between Page of Dartmouth and Halfacre in the third relay the Dartmouth man lost his baton, and an interesting race was spoiled, Technology winning by a wide margin. A similar misfortune overtook the freshmen in their match with the Holy Cross freshmen. The

TWO-MILE TEAM



McCarten Bardes Halfacre Herzog

ONE-MILE TEAM



Bossert Avery P. Scott Bawden

first three runners had a close fight with M. I. T. having a slight advantage, but on the final lap Bawden was challenged by Dignan of Holy Cross. The Holy Cross runner fell on a corner, and a thrilling finish was prevented.

The Penn. Relay Carnival is scheduled for April 26 and 27 this year and Technology expects to enter at least her two-mile relay team. It will be remembered this same team, Herzog, Halfacre, McCarten, and MacMahon ran in the Relay Carnival last year as a four-mile team and took second in a five-sided race with the University of Chicago, Lafayette, Penn. State, and the University of Pennsylvania.

The deficiency in intercollegiate relay meets during the past season has been fittingly made up by numerous army and navy meets. In this connection it is interesting to note that W. K. MacMahon, '20, entered in the two-mile event in the Army and Navy meet February 16, and representing the M. I. T. R. O. T. C., won second place, thus scoring points which clinched the victory for the army runners. Technology also has had an interest in the track efforts of her close associates, the Naval Aviation students. The Aviators entered teams in the B. A. A. games and the Army and Navy meet, February 16. In a triangular race with the Newport Naval Station team and the U. S. A. Ambulance Service team of Allentown, Penn., the aviators were victorious, the win being due largely to the speed of Wingate Rollins, '18, the former Harvard athlete, who ran as anchor man. At the Army and Navy meet the aviators were matched against the Fort Allen team, and they won the race easily.



SWIMMING

Swimming Season

THE record of the Technology swimming team is one unparalleled in the history of Institute sports. For three years it has not had a defeat and in the three seasons has met the pick of the eastern college swimming teams. Starting the season with no assurances but with plenty of optimism, the swimming team had three veterans, Captain Untersee, Bolan, and Wales, around which to develop a team from the fifty candidates who answered the first call. Beset with many obstacles the past season has been a difficult one in which the team had to fight hard to maintain its record. The success of the season may be attributed to three factors; the admirable work of Manager Scheeline, the excellent performances of Captain Untersee, and the interest and efforts of the team in general.

Victories were scored over Brown, University of Pennsylvania, Amherst, and Wesleyan, while the meet with the U. S. Naval Academy, which proved the hardest battle of the last three years, resulted in a tie. The first meet of the season with Brown was held in the opponent's tank, and winning by a 28 to 22 score the team made a good start for the season. The second meet was with the Pennsylvania swimmers in the Boston Y. M. C. A. tank, and resulted in a close 27 to 23 victory for M. I. T. In a mid-year trip to Annapolis the team was unable to win and after a hard fight had to be satisfied with a 25 to 25 tie score.



CAPTAIN UNTERSEE

The two meets with Amherst and Wesleyan in the Boston Y. M. C. A. tank and the Wesleyan tank, respectively, proved easy victories. A meet was scheduled with Yale for February 5, but because of the fuel situation at New Haven the meet had to be canceled. Although the coal shortage was sufficient reason for canceling, Yale showed a hesitancy about arranging a meet at another date, which would seem that an uncontested reputation was much to her satisfaction.



MANAGER SCHEELINE

Swimming Team



Trowbridge
Hobson, Asst. Mgr. Lee Walker Bolan McKay, Asst. Mgr.
Young Greene Wales Porcher Winn
Wilson Scheeline, Mgr. Shaw Skinner

Captain
Maximilian Untersee, '19

Manager
Paul Daniel Scheeline

Assistant Managers
Theodore Foster Hobson, '20
Richard McKay, '21

Team

Robert Stuart Bolan, '19
Clark Doane Greene, '21
John Ellsworth Shaw, '21
Otis Hibbard Trowbridge, '21
Maximilian Untersee, '19
Arthur Edward Wales, '19
Albert Charles Walker, '19
John James Winn, Jr., '21
William Hoyt Young, '21

Substitutes

Richard Lee, '21
Leigh John McGrath, '20
Francis Davis Porcher, '19
Richmond Hastings Skinner, '21
John Burr Starkweather, '21
Ellsworth MacNaull Wilson, '21

This year's relay team was not up to the standard of that of the previous year, but still was able to split even in its races, winning twice, losing twice, and racing one dead heat with the Wesleyan team. Unquestionably the best individual work for any college team for the season has been that of Captain Un-

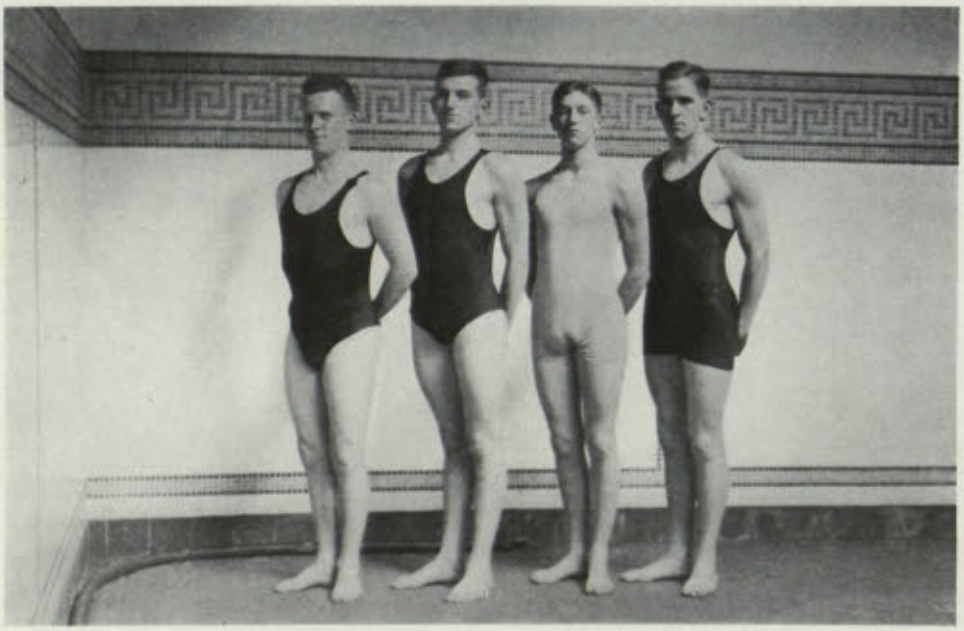
tersee. Consistent winner of two events in every meet, the fifty-yard and the hundred-yard dashes, and several times changing what appeared as sure defeat in the relay into a victory, his work has been the mark of the season. In the two-hundred-and-twenty-yard dash Greene, '21, proved to be a discovery, and with his team mate Bolan, '19, accounted for the first two places in every meet with the single exception of the Pennsylvania meet, where Bolan was forced into third place. The diving event was cared for by two men new to the team this year, Walker, '19, and Shaw, '21, and both figured in the scoring in nearly every meet. Wales's plunging was not up to his performances of the previous year, but nevertheless he won three firsts and two seconds for the season.

On March 23 the intercollegiates were held at Princeton and, with a representation of three men, Technology made a wonderful showing and won third place. Princeton won the championship and the University of Pennsylvania took second honors, while Yale ranked in fourth position. Captain Untersee showed himself worthy of all previous laurels by tieing with Mayer of Yale for first place in the hundred. He also tied Mayer for second place in the fifty-yard dash, and Bolan, '19, took third place in the two-hundred-and-twenty-yard dash.

Schedule of Meets

		M. I. T.	*Opponents*
January 12, 1918.	Brown at Providence	28	22
January 19, 1918.	Pennsylvania at Boston . . .	27	23
January 26, 1918.	Annapolis at Annapolis . . .	25	25
February 16, 1918.	Amherst at Boston	35	15
February 23, 1918.	Wesleyan at Middletown . .	31	22

Relay Team



Young Trowbridge Shaw Untersee



WRESTLING

DUE to the varying factors of lack of veteran material, inability to obtain intercollegaite competition, and accidents to the best men, the wrestling team has suffered a bad season. Although Technology's former prestige in the wrestling world has gradually decreased in the past few years, it is no reason for discouragement and the varsity men have very wisely spent much of their time in developing new material. The substitution of wrestling by the freshmen in place of gymnasium work has been even more popular this year than ever and interclass competition has been the prevailing spirit of the season.

In the two varsity meets of the season with Andover and Harvard, Technology wrestlers, handicapped by injuries to Captain Giles and Smoley, were defeated. The strong Andover team, coached by "Cyclone" Burns, won by the score of 14 to 5, Wirt being the only winner of his bout for Technology. In a meet with Harvard at the Boston Y. M. C. A. Harvard surprised the Institute wrestlers by administering a 14 to 6 defeat. In this meet Smoley was unable to compete because of a broken rib received in the Andover meet, and Captain MacDonald of Harvard was able to hold Captain Giles of Technology to a draw in an extra period bout. Wirt in the 158-pound class was again the only winner of his bout.

Preparation for the interclass series of the two lower classes opened immediately after Field Day when one hundred freshmen reported for wrestling. They were schooled in the elementary holds and counters by Coach Gracey and the varsity men, and by means of elimination matches and a championship tournament the freshman champions in each class were determined. The champions of each class were: 115-pound class, C. A. Johnson; 125-pound class, C. L. Arrigoni; 135-pound class, J. Gordon; 145-pound class, W. K. Ramsay; 158-pound class, G. Dateo.

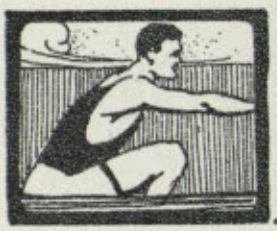
On March 13 the annual freshman-sophomore meet was held and eight bouts were staged. The sophomores were winners in an exciting meet by the score of 21 to 13.

1920 vs. 1921

Evert W. Freeman, '20 — *Captains* — George Dateo, '21

SUMMARY

115-pound class	Johnson, '21, defeated Rowe, '20
125-pound class	Arrigoni, '21, defeated Lucas, '20
135-pound class	Badger, '20, threw Gordon, '21
135-pound class	Lariviere, '20, defeated Rowell, '21
135-pound class	Barker, '21, threw Crowley, '20
145-pound class	Smith, '20, defeated Ramsay, '21
158-pound class	Abbott, '20, defeated Dateo, '21
158-pound class	Krantz, '20, defeated Acosta, '21



CREW

Crew Season, 1917

CREW is one of the Technology sports with which war activities have seriously interfered. Since the reorganization in 1916 of the M. I. T. Boat Club as the Technology Rowing Association, crew has been steadily forging ahead. As soon as the Charles was clear of ice last spring, crew activities moved to the B. A. A. Boathouse and an attractive schedule of races was planned, including races with Tufts, Exeter, Middlesex, and the Harvard Regatta. After the declaration of war on April 6, 1917, the increased war activities of the varsity crew men, and the enlistments of Captain Deacon and Manager Littlefield made the cancellation of all outside races necessary.

However, an interclass crew race was held April 20 between freshman, sophomore, and junior eight-oared crews. The race, an interesting feature of Junior Week, was hard fought and the class rivalry was keen. The 1918 crew led over the greater part of the course, but in a spurt at the finish the 1919 eight came to the front and won by half a boat length, covering the mile course from the Cottage Farm Bridge to the Technology landing in 5 minutes and 50 seconds. The 1920 crew finished one boat length behind 1918. The senior crew did not compete because its members were busy preparing for army examinations. This race marked the formal close of the spring season.



Varsity Eight-Oared Crew

Untersee Pope Wirt MacDonald Althous Deacon Quick Lundquist Webber (Cox.)

1919 Crew



Hackett Untersee Murdough Luykx
J. J. Falkenberg R. L. Falkenberg Webber (Cox.) Sherman Webster

Position	1918	1919	1920
Bow	Sturtevant	Webster	Cofren
2	Lehmkuhl	Sherman	Berg
3	Allen	Falkenberg, J. J.	Rowen
4	Kiley	Falkenberg, R. L.	Schildbach
5	Blaisdell	Luykx	Wason, A.
6	Pope	Murdough	Wason, E.
7	Wirt	Untersee (Capt.)	Bigelow (Capt.)
Stroke	Berliner (Capt.)	Hackett	Burroughs
Cox.	Gaillac	Webber	Dana

In the fall of 1917, crew work was limited to the preparation of the freshman and sophomore crews for the annual Field Day race. Winter training for crew men consisted of board track work and indoor work on the machines. Although no intercollegiate schedule is expected this spring, Manager M. A. Loucks, '18, hopes to arrange interclass crew races and probably races with Harvard junior crews. Captain M. Untersee, '19, with the capable instruction of Coach A. W. Stevens, expects to train a rowing squad and maintain an interest in this water sport which during the past few years has gained a rating among the major sports at the Institute.



TENNIS

Tennis Season

TENNIS enthusiasts may well feel satisfied with the 1917 season, for with good support and spirit both a varsity and a freshman team were developed and successful seasons completed. Early in the spring, thirty men reported for varsity practice. R. B. Swain, '17, was elected varsity captain and W. F. Kimball, '19, was chosen as manager of the Tennis Association. The team was picked by elimination matches, the resulting ranking being changed only by challenge. The Jarvis Field courts were used for practice and, through the courtesy of the Longwood Tennis Club, the Longwood courts were used for the home matches.

The season opened with the defeat of Brown on the Longwood courts by a 4 to 2 score. Bowdoin, as the next visitor, was easily taken into camp with a 6 to 0 victory. In a return match with Brown the following week at Providence, a 3 to 3 tie resulted. Two days later a trip was made to Worcester, and before a large body of undergraduate supporters the Worcester Polytechnic players gave the Institute team its only defeat of the season. The last meet was with Williams College at Williamstown, where the season was closed with an easy 6 to 0 victory. Other matches with Tufts, Trinity, Wesleyan, and Holy Cross were scheduled, but owing principally to the dependence on weather conditions these matches were not played. The annual N.E.I.L.T.A. meet was omitted because of difficulties arising from the war situation.



W. L. Wei, Winner Fall Tennis Tournament

The freshman tennis team had an equally successful season; winning three matches, tieing one, and losing one. They defeated Huntington School, May 2, 5 to 0; Milton Academy, May 18, 4 to 1; and Lynn Classical High School, May 19, 5 to 1; they lost to St. Mark's School May 16, 2 to 4; and played a tie meet with the 1919 team, May 8, 3 to 3. The 1920 team was made up as follows: C. B. Stanwood, *Captain*, W. N. Barron, W. O. Merryweather, G. M. Wurzelbacher, and L. E. Boyden, *Manager*.

Varsity Tennis Team



Kimball Swain Pierce Wyer

VARSITY		1920
Robert B. Swain, '17	*Captain*	Creighton B. Stanwood
Wirt F. Kimball, '19	*Manager*	Laurance E. Boyden

TEAMS

Wirt F. Kimball, '19	William N. Barron
Marvin Pierce, '18	Weir O. Merryweather
Robert B. Swain, '17	Creighton B. Stanwood
William Wyer, '18	George M. Wurzelbacher

The feature of the autumn tennis work for 1917 was the fall tennis tournament which was open to all Technology students, and in which forty-eight men competed. After keen competition in the elimination matches W. L. Wei, a graduate student, won from the runner-up, W. N. Barron, '20, by 6 to 4, 6 to 1, and 6 to 2 scores. Wei, who formerly held the tennis championship of China, was ineligible, as a graduate student, to play in the previous varsity season, but did some valuable coaching for the team.

SCHEDULES

Brown	2	M. I. T.	4	Huntington School	0	1920	5
Bowdoin	0	M. I. T.	6	1919	3	1920	3
Brown	3	M. I. T.	3	St. Mark's School	4	1920	2
W. P. I.	4	M. I. T.	2	Milton Academy	1	1920	4
Williams	0	M. I. T.	6	Lynn Classical High	1	1920	5



CLASS MEETS

Technology Field — **SPRING INTERCLASS MEET** — **April 20, 1917**

Event	*Winner*	*Second*	*Third*	*Fourth*	*Result*
100 Yards	Russert, '18	Bossert, '20	Sale, '20	O'Hara, '17	:10⅗
220 Yards	Loomis, '17	Russert, '18	O'Hara, '17	Anable, '20	:23
440 Yards	Loomis, '17	Doon, '17	Ormon, '20	Bent, '19	:51⅗
880 Yards	Stephens, '18	Herzog, '19	Brock, '17	Westland, '19	2:07⅗
One Mile	Herzog, '19	McCarten, '19	Dorr, '20	Hall, '20	4:38⅗
Two Miles	Halfacre, '18	MacMahon, '20	McVickar, '18	de Zubiria, '18	9:58
120-Yard Hurdles	Scranton, '19	Anable, '20	Sewall, '17	Goodridge, '19	:17⅘
220-Yard Hurdles	Scranton, '19	Van Kirk, '18	Brickett, '20	Collier, '18	:27
High Jump	Ash, '20	Sullivan, '17 } Tie Frease, '20 }		Pierce, '20 } Merrill, '19 } Tie Schoonmaker, '17 }	5'9½"
Broad Jump	Avery, '18	Sullivan, '17	Matthews, '20	Van Kirk, '18	20'3"
Pole Vault	Wright, '18	Pender, '20	Huang, '19		10'6"
Shot Put	Rollins, '18	Drew, '19	Ash, '20	Stevens, '17	38'4¾"
Discus Throw	Drew, '19	Wright, '18	Sewall, '17	Todd, '18	103'6"

Team Scores

1917 — 29⅝ 1918 — 44 1919 — 39⅝ 1920 — 39⅕

Interclass Relay Race

Distance — 1½ miles Won by 1920 Time — 4:52⅖



100-Yard Dash, Spring Meet
Bossert, '20, second Russert, '18, first Sale, '20, third O'Hara, '17, fourth

1919 *vs.* 1920

Technology Field **April 14, 1917**

Event	*Winner*	*Second*	*Third*	*Result*	1919	1920
100 Yards	Bossert, '20	Downey, '20	Larson, '20	:10⅘	0	9
220 Yards	Anable, '20	Downey, '20	Lawson, '20	:23⅗	0	9
440 Yards	Ormon, '20	Bent, '19	Wilson, '20	:53⅘	3	6
880 Yards	McCarten, '19	Westland, '19	Barnes, '20	2:04⅗	8	1
One Mile	Herzog, '19	McCarten, '19	Dorr, '20	4:53⅗	8	1
Two Miles	MacMahon, '20	Herzog, '19	Handy, '20	10:17	3	6
120-Yard Hurdles	Scranton, '19	Mills, '20	Merrill, '19	:18	6	3
220-Yard Hurdles	Scranton, '19	Brickett, '20	Jackson, '19	:28⅗	6	3
High Jump	Pierce, '20	Lockwood, '19	Frease, '20	5'9"	3	6
Broad Jump	Matthews, '20	Drew, '19	Pierce, '20	20'6"	3	6
Pole Vault	Pender, '20	Pierce, '20	Lockwood, '19 / Wang, '19 } Tie	9'6"	1	8
Shot Put	Kellar, '20	Jewett, '19	Drew, '19	33'9"	4	5
Hammer Throw	Riegel, '19	DuVernet, '20	Dandrow, '20		5	4
Discus Throw	Drew, '19	Kellar, '20	Dandrow, '20	102'4"	5	4
					55	71

FALL HANDICAP MEET

Technology Field **November 10, 1917**

Event	*Winner*	*Second*	*Third*	*Fourth*	*Result*
100 Yards	Junod, '21, 6 y.	Bossert, '20, sc.	Wright, '18, 2½ y.	Pridmore, '21, 2½ y.	:10⅕
220 Yards	Bossert, '20, sc.	Pridmore, '21, 5 y.	Evans, '21, 8 y.	Cowie, '21, 9 y.	:23⅖
440 Yards	Couch, '20, 15 y.	Knight, '20, 10 y.	Bardes, '21, 13 y.	Putnam, '19, 20 y.	:53⅘
High Hurdles	Sheldon, '21, sc.	Hays, '21, 4 y.	Skinner, '21, 8 y.	Merrill, '19, 6 y.	:17⅗
Low Hurdles	Sheldon, '21, sc.	Skinner, '21, 6 y.	Wright, '18, sc.		:28⅗
High Jump	Pierce, '20, sc.	Brimblecom, '21, 5"	Merrill, '19, 4½"	Fletcher, '21, 4"	5' 5"
Pole Vault	Wright, '18, sc.	Fletcher, '21, 17"	Sheldon, '21, 1"	Pierce, '20, 17"	11'
Shot Put	Drew, '19, 2'	Kellar, '20, sc.	Hays, '21, 6'	Blood, '21, 6'	34' 9"
Hammer Throw	Hays, '21, sc.	Boghossian, '18, 5	Blood, '21, 10'		103' 9"
Discus Throw	Drew, '19, 8'	Kellar, '20, sc.	Norton, '21, 18'	Wright, '18, 10'	124' 2"

NOTE: No 880 yards, mile, or 2 miles because of cross-country work.

1920 *vs.* 1921

Board Track **March 9, 1918**

Event	*Winner*	*Second*	*Third*	*Result*	'20	'21
60-Yard Dash	Junod, '21	Ormon, '20	Norton, '21	:6⅗	3	6
70-Yard High Hurdles	Mills, '20	Pierce, '20	Hays, '21	:10⅕	8	1
70-Yard Low Hurdles	Sheldon, '21	Mills, '20	Junod, '21	:8⅕	3	6
440-Yards	Bawden, '21	Scott, '21	Conant, '21	:54⅕	0	9
880-Yards	Bawden, '21	Bardes, '21	Brickett, '20	2:05⅗	1	8
One Mile	MacMahon, '20	Stone, '21	Atwood, '21	4:44⅕	5	4
High Jump	Pierce, '21	Emery, '21	Franck, '20	5' 6"	1	8
Shot Put	Kellar, '20	Hays, '21	Raymond, '21	32' 8"	5	4
					26	46

1919 Baseball Team



Merrill Bruno Banks
Walworth Clark Duffy Balfour

1920 Baseball Team



Graves Massey Hobson Philbrick W. J. Dean, Mgr. Barker
Eaton Jones J. L. Dean, Capt. Abbott Burke Bray
Stacy



BASEBALL

1919		1920
Herbert Lewis Duffy	*Captain*	James Lindley Dean
Myron Harrison Clark	*Manager*	William Judson Dean

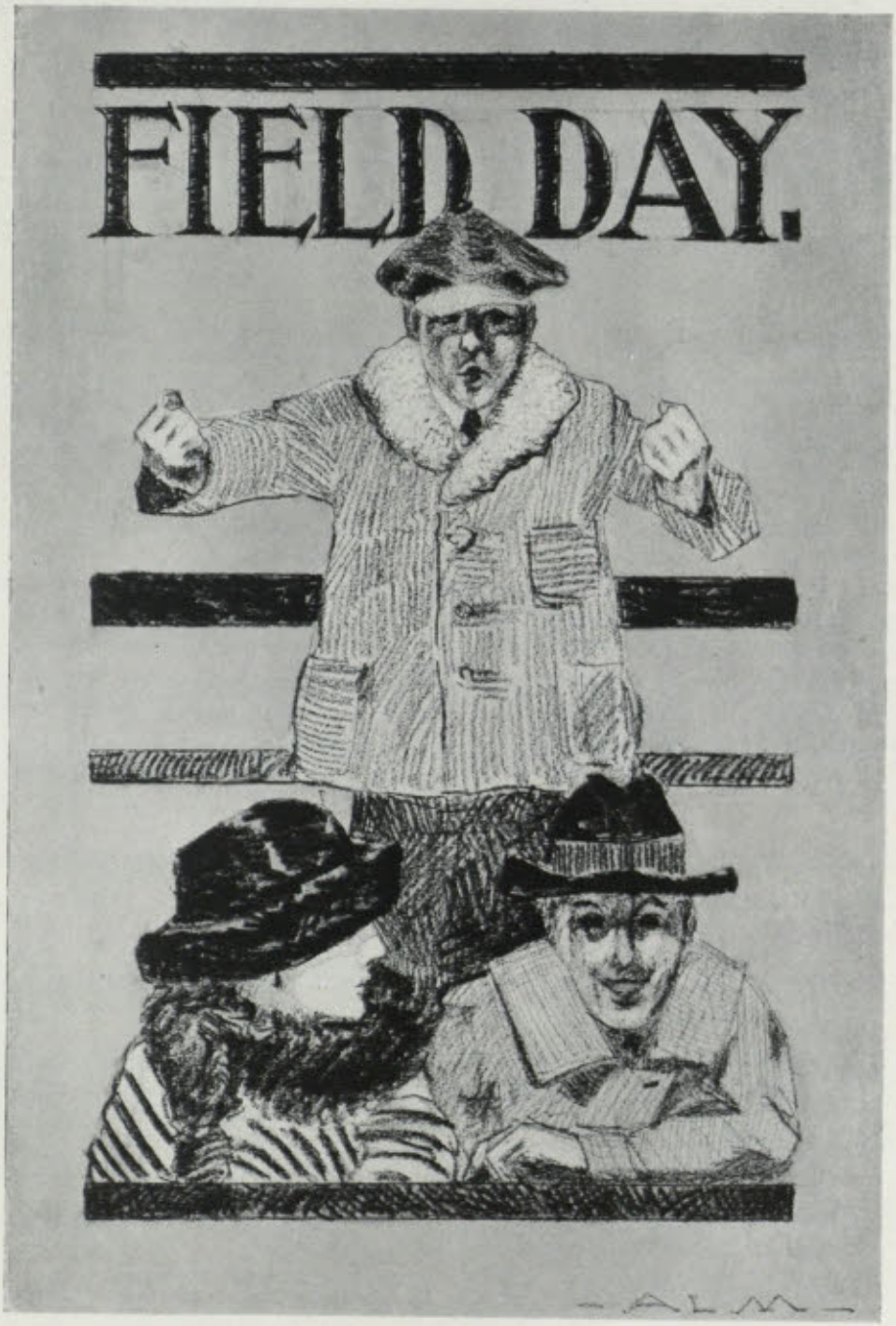
TEAM		TEAM
Herbert Cummings Merrill	*Pitcher*	Theodore Foster Hobson
Henry Joseph Bruno	*Catcher*	Norris Greenleaf Abbott
Francis Thomas Coleman	*First Base*	Alan Wollison Burke
Frederick Andrew Parker	*Second Base*	John Clement Barker
Walter Frederick Walworth	*Third Base*	Edward Vaughn Jones
Herbert Lewis Duffy	*Short Stop*	James Lindley Dean
Ernest Francis Schindler	*Right Field*	Medwin Matthews
William Howard Banks, Jr.	*Center Field*	Charles Wesley Eaton
Marshall Coulter Balfour	*Left Field*	Charles Collins Bray

SUBSTITUTES	SUBSTITUTES
Frederick William Boley	Henry Peirce Massey
Willard Everett Bonnell	Leo Hayes Murphy

Interclass Series

Won by 1918	*Second* — 1919		*Third* —1920
	Won	Lost	Total Score
1918	4	0	39
1919	2	2	32
1920	0	4	13

1918 *vs.* 1920.	1918.....10	1920.....1
1918 *vs.* 1919.	1918.....12	1919.....0
1918 *vs.* 1919.	1918.....6	1919.....5
1918 *vs.* 1920.	1918.....11	1920.....3
1919 *vs.* 1920.	1919.....17	1920.....6
1919 *vs.* 1920.	1919.....10	1920.....3


FIELD DAY.
-ALM-

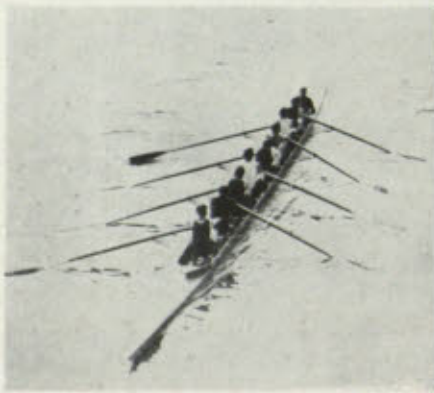


FIELD DAY

THE Seventeenth Annual Field Day was favored by excellent weather and consequently a record crowd gathered to view the struggle for supremacy between the classes of 1920 and 1921. The sophomores showed the traditional hesitancy in preparing, and had the crew race counted in the scoring the result might have been different.

For the second year a freshman-sophomore crew race preceded the regular field events. Three eight-oared shells, a sophomore eight, a freshman eight, and a freshman second crew raced over the mile course on the Charles from the Cottage Farm Bridge to a little below the Harvard Bridge, and were watched by a large crowd which lined the bridge and the river bank. The freshmen, with more spirit and better training, were pitted against the greater weight and experience of the sophomore crew. At the start the 1921 eight jumped to the fore, and their lead was never challenged and was gradually increased until at the finish open water showed between the shells. The crews rowed as follows: 1920 — bow Cofren, 2 Schildbach, 3 Moy Ding, 4 Burroughs (Captain), 5 Noelke, 6 E. Wason, 7 A. Wason, stroke, McNear, cox. Givener; 1921 first crew — bow Skinner, 2 Lovis, 3 Haskell, 4 Lloyd, 5 Hauber, 6 Bardes, 7 Clarke, stroke Thulman (Captain), cox. Sandberg; 1921 second crew — bow Olcott, 2 Nelson, 3 Sherman, 4 Hawes, 5 Del Aguila, 6 Parsons, 7 Rose, stroke Hindes, cox. Davidson.

Field Day proper started with the time-honored Field Day parade of the four classes. Headed by the Technique Band, the students marched to the field and,



1921 — Victors



1920 — Vanquished

Field Day Crews



"On the Rope!"

with the stands already filled, divided into cheering sections and awaited the starting gun of the first event.

Promptly the tug-o'-war teams took their places on the rope and the 1920 team was soon sized up as the heavier. With a strong, steady pull the sophomores pulled the freshman over the line in 1 minute and 14 3/5 seconds.

With the freshman fighting spirit at high pitch the football teams then took the field, 1920 again appearing to have the weight advantage and 1921 depending on greater speed and aggressiveness. The freshmen received the kick-off, and with a well-judged punt and a recovered fumble were soon in 1920 territory. After fighting their way to the two-foot line Waterman went over for the first touchdown for 1921. O'Hearn did not kick the goal. The sophomores then had their turn, and on a series of line plunges, Dana starring through centre, they reached the freshman seven-yard line where the quarter ended. Resuming play in the



1921 *vs.* 1920



1920 — Winning



Freshmen Scoring First Touchdown

second quarter the sophomores were held for downs and O'Hearn kicked to safety. The freshmen recovered a fumble and after a series of gains Welton, with a pretty exhibition of open-field running, placed the ball behind the 1920 goal posts for the second touchdown. Kicking from an angle, O'Hearn again missed the goal. The sophomores received the kick-off but were held for downs. 1921 failed in a forward pass and a drop-kick attempt, and the first half ended with the ball on the 1920 twenty-five-yard line. Score, 1921 — 12; 1920 — 0.

The relay runners now began to warm up, and though the outcome was uncertain the 1920 team with six veterans from the previous year were a slight favorite. The sophomores had the pole, but Poole, 1921, beat Knight, 1920, in the first relay. The first three freshmen runners opened up a slight advantage, but the next three sophomore runners, Ash, Matthews, and Farrer, changed a six-yard handicap into a fifteen-yard lead which was gradually increased. Downey, the 1920 captain, finished thirty yards in the lead. The time, 4 minutes and 52⅖ seconds, was two seconds slower than the record.

The second tug-o'-war pull was the most exciting for several years, the advantage shifting back and forth between the two teams. The experience and endurance of the older men had its effect, however, and the 1921 team was dragged across the line after 2 minutes and 43⅕ seconds of hard pulling.

Field Day was now decided in favor of the sophomores, but the second half of the football game still held interest for all. The third quarter was largely an exchange of punts. A costly fumble by 1921 on its own twenty-yard line gave the sophomores their chance to score. At the opening of the fourth quarter straight-



Hurley, '21, Breaking through the Sophomore Line for a Long Run

line plunging brought the ball to the freshmen's six-yard line. Here Bradley, a substitute, after having run in the relay race, repeated his performance of the previous year and went over the line for a touchdown. Abercrombie kicked the goal. The freshmen had a revival of spirit, but the sophomores, spurred on by their touchdown, made even gains, and the last quarter, and the game ended with the ball on the sophomores' twenty-five-yard line. Score, 1921—12; 1920—7.

On the following evening the annual Field Day dinner was given in the Walker Memorial to the three teams from each class. Cheering, speeches, and good fellowship held sway during the evening, and at this time the Cabot Medals for the best all-around physical development during the previous year were presented to the 1920 winners as follows: H. M. Noelke, G. T. Corr, H. F. Smiddy, H. W. Erickson, and L. D. Wilson.



Technique Band Leads the Field Day Parade

1920 Football Team



Somerby Porter, Coach Philbrick, Mgr. McDonald
Abbott Freeman Davis Gee Krantz Pierce, Coach Skinner
Barker Bradley Buckley Casey, Capt. Abercrombie Bray Tattersfield
Dana Badger

1921 Football Team



Trowbridge Morrison
Welton Blood Kittredge McGill Rogovin Waterman Booth, Mgr.
Beattie Merrill Hurley, Capt. O'Hearn Young Murphy
Woods Landis Chalfin



FOOTBALL

1920		1921
Bartholomew Francis Casey	*Captain*	John Louis Hurley
John Alden Philbrick, Jr.	*Manager*	Edward Wolcott Booth

Team		Team
James William McDonald, Jr.	*Left End*	Ralph Waldo Wood
Richard Hawkins Gee	*Left Tackle*	Francis Bowen Kittredge
Raymond Edward Davis	*Left Guard*	Aubrey Jennings Northrop
Ralph Pidgin Abercrombie	*Center*	William Hoyt Young, Jr.
John Edward Buckley, Jr.	*Right Guard*	Malcolm Burch Beattie
Bartholomew Francis Casey	*Right Tackle*	Edmund Francis O'Hearn
Norris Greenleaf Abbott, Jr.	*Right End*	Raymond Joseph McGill
Norman Putnam Dana	*Quarter Back*	Francis Russell Whelton
Robert Llewellyn Skinner	*Left Half Back*	John Louis Hurley
Charles Collins Bray	*Right Half Back*	Warren Gookin Waterman, Jr.
Robert Theodore Pender	*Full Back*	John Joseph Murphy

Substitutes	Substitutes
Frank Leo Bradley	Edgerton Merrill
Edward Franklin Badger	Henry Neuman Landis
Hubert Kolle Krantz	Otis Hibbard Trowbridge
Philip Bickner Somerby	Isadore Harry Rogovin
Merritt Harrison Taylor	Samuel Fletcher Chalfin

Schedule			Schedule		
Concord High	6	1920 — 0	Manchester High	47	1921 — 0

1920 Relay Team



Farrer Shea Ormon Matthews Bradley Cofren, Mgr.
Mills I. H. Wilson Downey, Capt. Bossert G. A. Wilson
Whitten Brickett

1921 Relay Team



Adams, Mgr. Guffey Conant Kirkpatrick Burckett
Clark Cowie Poole Sheldon, Capt. Pridmore Evans



RELAY TEAMS

1920		1921
James Francis Downey, Jr.	*Captain*	Morris Fahnestock Sheldon
Warren Lewis Cofren	*Manager*	Waldo Adams

TEAMS

1920	(Order of Running)	1921
George Roger Knight		Richard Clement Poole
Lyman Perley Whitten		Maxwell Kellogg Burckett
Prentice Durfey Ash		Lawrence Wickes Conant
George Kelly Matthews		Chester Raymond Painter
John Arnold Farrer, Jr.		Leland Kinsey Cowie
Frank Leo Bradley		Henri Pell Junod
Irving Harrison Wilson		Francis Amsden Guffey
Oliver Adams Mills		Laighton Evans
Edward Montgomery Brickett		Palmer Scott
James Brodie Ormon		Marshall Efmory Pridmore
Theodore William Bossert		Garvin Bawden
James Francis Downey, Jr.		Morris Fahnestock Sheldon

SUBSTITUTES

Henry Francis Shea	Richard Sanford Clark
George Arthur Wilson	Austin Nugent Kirkpatrick

RELAY RACE

Distance, 1½ miles. Won by 1920. Time, 4 minutes, 52⅖ seconds.

Record: 4 minutes, 50⅗ seconds. Held by 1916.

1920 Tug-o'-War Team



Mesmer, Mgr. Syner Pike Powell P. S. Brown Broockmann
Bowditch L. D. Wilson A. A. Brown Peirce Harris A. Wason Grover
Bugbee Turner Leander Ryer, Capt. Matthews Leonori Pederhen
Bond Hemeon

1921 Tug-o'-War Team



Fargo W. Dean McClelland R. W. Smith Dateo
Jakobson Worcester Brimblecom D. T. Brown Wylde Pratt
Ramsay Loesch Richardson Levin Crosby, Capt. Costa Stose
Delany Jackson McEvoy



TUG-O'-WAR

1920		1921
Edwin Delamater Ryer	*Captain*	Josiah Denton Crosby
Aloysius James Mesmer	*Manager*	Chesterton Stevens Knight

TEAMS

1920	1921
Clinton Lucius Bond	Isaac Simon Ascher
Frederic Channing Bowditch, Jr.	Hamilton Beattie
Adin Allen Brown	Warren Kingsbury Brimblecom
Percy Bugbee	Laurence Oliphant Buckner
James Rose Carter	Jerome Joseph Collins
Herbert Melancthon Federhen	Alberto Costa
George Frank Gokey, Jr.	Josiah Denton Crosby
Newell Arthur Grover	George Dateo
Laurence Isaac Harris	Winter Dean
James Russell Hemeon	Edwin Francis Delany
Harold Camillo Jenson	Glenn Edmund Fargo
John William Kellar	Arthur Laurence Jackson
Carl Thorsten Leander	Irving Daniel Jakobson
William Henry Leonori, Jr.	George Roberts Jamieson
Henry Pierce Massey	Harold Lester Levin
Medwin Matthews	John Margeson McClelland
Donald Ball McGuire	Joseph Henry McEvoy, Jr.
Robert Patterson	Fearing Pratt
John Trevor Peirce	Webster Kimball Ramsay
Moses Bernard Pike	John Dana Richardson
Albert Perry Powell	Stephen Eastman Root
Edwin Delamater Ryer	Richard Wellington Smith
Clarence Marshall Syner	Harold Frederick Stose
Alfred Boyd Wason	John Newton Worcester
Leland David Wilson	Edward Pilkington Wylde

COUNTERS

Robert Laird Turner	Willard George Loesch

SUBSTITUTES

Herman Broockmann, Jr.	Lincoln Barrett Barker
Elbridge Wason	Dayton Talmage Brown

TUG-O'-WAR

Won by

First Pull	1920	1 minute, 14 3/5 seconds
Second Pull	1920	2 minutes, 43 1/5 seconds

Record: 15 3/5 seconds. Held by 1919.


THE
FRATERNITIES

The Greek Letter Fraternities

at the Massachusetts Institute of Technology arranged in the order of their final establishment.

	PAGE
Sigma Chi	228
Theta Xi	230
Delta Psi	232
Chi Phi	234
Delta Kappa Epsilon	236
Phi Beta Epsilon	238
Delta Upsilon	240
Sigma Alpha Epsilon	242
Delta Tau Delta	244
Phi Gamma Delta	246
Phi Sigma Kappa	248
Theta Chi	250
Phi Kappa Sigma	252
Alpha Tau Omega	254
Theta Delta Chi	256
Lambda Phi	258
Lambda Chi Alpha	260
Beta Theta Pi	262
Kappa Sigma	264



Sigma Chi

CHAPTER ROLL

1855	Alpha	Miami University	Oxford, Ohio
1855	Gamma	Ohio Wesleyan University	Delaware, Ohio
1872	Delta	University of Georgia	Athens, Ga.
1864	Epsilon	George Washington University	Washington, D. C.
1866	Zeta	Washington and Lee University	Lexington, Va.
1863	Theta	Pennsylvania College	Gettysburg, Pa.
1864	Kappa	Bucknell University	Lewisburg, Pa.
1858	Lambda	Indiana University	Bloomington, Ind.
1868	Mu	Denison University	Granville, Ohio
1859	Xi	De Pauw University	Greencastle, Ind.
1859	Omicron	Dickinson College	Carlisle, Pa.
1866	Rho	Butler College	Indianapolis, Ind.
1867	Phi	Lafayette College	Easton, Pa.
1871	Chi	Hanover College	Hanover, Ind.
1860	Psi	University of Virginia	Charlottesville, Va.
1869	Omega	Northwestern University	Evanston, Ill.
1892	Alpha Alpha	Hobart College	Geneva, N. Y.
1886	Alpha Beta	University of California	Berkeley, Cal.
1882	Alpha Gamma	Ohio State University	Columbus, Ohio
1883	Alpha Epsilon	University of Nebraska	Lincoln, Neb.
1882	Alpha Zeta	Beloit College	Beloit, Wis.
1881	Alpha Eta	Iowa University	Iowa City, Ia.
1882	Alpha Theta	Massachusetts Institute of Technology	Cambridge, Mass.
1883	Alpha Iota	Illinois Wesleyan University	Bloomington, Ill.
1884	Alpha Lambda	University of Wisconsin	Madison, Wis.
1884	Alpha Nu	University of Texas	Austin, Tex.
1884	Alpha Xi	University of Kansas	Lawrence, Kan.
1886	Alpha Omicron	Tulane University	New Orleans, La.
1886	Alpha Pi	Albion College	Albion, Mich.
1893	Alpha Rho	Lehigh University	S. Bethlehem, Pa.
1888	Alpha Sigma	University of Minnesota	Minneapolis, Minn.
1889	Alpha Upsilon	University of Southern California	Los Angeles, Cal.
1889	Alpha Tau	University of North Carolina	Chapel Hill, N. C.
1890	Alpha Phi	Cornell University	Ithaca, N. Y.
1891	Alpha Chi	Pennsylvania State College	State College, Pa.
1891	Alpha Omega	Leland Stanford Junior University	Stanford University, Cal.
1891	Alpha Psi	Vanderbilt University	Nashville, Tenn.
1905	Beta Gamma	Colorado College	Colorado Springs, Col.
1907	Beta Delta	University of Montana	Missoula, Mont.
1876	Delta Delta	Purdue University	Lafayette, Ind.
1876	Zeta Zeta	Central University	Danville, Ky.
1882	Zeta Psi	University of Cincinnati	Cincinnati, Ohio

1893	Eta Eta	Dartmouth College	Hanover, N. H.
1897	Theta Theta	University of Michigan	Ann Arbor, Mich.
1891	Kappa Kappa	University of Illinois	Champaign, Ill.
1893	Lambda Lambda	Kentucky State College	Lexington, Ky.
1895	Mu Mu	West Virginia University	Morgantown, W. Va.
1894	Nu Nu	Columbia University	New York, N. Y.
1896	Xi Xi	University of Missouri	Columbia, Mo.
1897	Omicron Omicron	University of Chicago	Chicago, Ill.
1902	Rho Rho	University of Maine	Orono, Me.
1903	Tau Tau	Washington University	St. Louis, Mo.
1896	Phi Phi	University of Pennsylvania	Philadelphia, Pa.
1903	Upsilon Upsilon	University of Washington	Seattle, Wash.
1904	Psi Psi	Syracuse University	Syracuse, N. Y.
1905	Omega Omega	University of Arkansas	Fayetteville, Ark.
1908	Beta Epsilon	University of Utah	Salt Lake City, Utah
1909	Beta Zeta	University of North Dakota	Grand Forks, N. D.
1880	Delta Chi	Wabash University	Crawfordsville, Ind.
1909	Beta Eta	Case School of Applied Science	Cleveland, Ohio
1909	Beta Theta	Pittsburgh University	Pittsburgh, Pa.
1910	Beta Iota	University of Oregon	Eugene, Ore.
1912	Beta Kappa	University of Oklahoma	Norman, Okla.
1912	Beta Lambda	Trinity College	Durham, N. C.
1914	Beta Mu	University of Colorado	Boulder, Col.
1914	Beta Nu	Brown University	Providence, R. I.
1914	Iota Iota	University of Alabama	University, Ala.
1916	Beta Xi	University of New Mexico	Albuquerque, N. M.

Sigma Chi

Alpha Theta Chapter — Established 1882

FRATER IN FACULTATE

William Elgin Wickenden

FRATRES

1918

Oliver Donn Burton
John Alston Clark
John Wheeler Clarkson
Herbert Foster Jermain
Brainerd Alden Thresher

1919

Oswald Cammann, Jr.
Albert Batchelder Clarkson
George Grimes Fleming
George Clyde McCarten
Paul Desnoyers Peltier
James Ward Reis, Jr.

1920

Edward Sharp Burdell
Edward Samuel Farrow, Jr.
William Morton Breakey Freeman
James Fanshee Johnson
John Daniel Rockafeller
Richard Philip Windisch

1921

Waldo Adams
Henry Seymour Colton
Harold Nelson Ewertz
George Roberts Jamieson
William Daniel Morrison
William Henry Frederick Rose, Jr.
Oscar Hugo Pantzer
John Ronald Leslie

1067 Beacon Street, Boston



Theta Xi

CHAPTER ROLL

A	Rensselaer Polytechnic Institute	Troy, N. Y.
B	Sheffield Scientific School	New Haven, Conn.
Γ	Stevens Institute of Technology	Hoboken, N. J.
Δ	Massachusetts Institute of Technology	Cambridge, Mass.
E	Columbia University	New York, N. Y.
Z	Cornell University	Ithaca, N. Y.
H	Lehigh University	S. Bethlehem, Pa.
Θ	Purdue University	Lafayette, Ind.
I	Washington University	St. Louis, Mo.
K	Rose Polytechnic Institute	Terre Haute, Ind.
Λ	Pennsylvania State College	State College, Pa.
M	Iowa State College	Ames, Ia.
N	University of California	Berkeley, Cal.
Ξ	State University of Iowa	Iowa City, Ia.
O	University of Pennsylvania	Philadelphia, Pa.
Π	Carnegie Technical Institute	Pittsburgh, Pa.
P	University of Texas	Austin, Tex.
Σ	University of Michigan	Ann Arbor, Mich.
T	Leland Stanford Jr. University	Stanford University, Cal.
Υ	University of Washington	Seattle, Wash.
	Graduate Club	New York, N. Y.
	Graduate Club	Chicago, Ill.
	Graduate Club	Pittsburgh, Pa.
	Graduate Club	Baltimore, Md.
	Graduate Club	San Francisco, Cal.

Theta Xi

Delta Chapter — Established 1885

FRATRES IN FACULTATE

Harry Ellsworth Clifford
Harrison Washburn Hayward
Henry Greenleaf Pearson

FRATRES

1918

Malcolm Alfred Lancelot Eales
Walter Christian Frederick Gartner
George Michael Macheca
Edwin Mongan McNally
Albert Francis Murray
Albert Saunders
Dean Sheridan Sibley

1919

Philip Renwick Brown
Charles Augustine Chayne
Edward Franklin Pierce, Jr.
Arklay Seymour Richards

1920

Theodore William Bossert
Perry Bush Bryne
Raymond Bret Collerd
Eric Llewellyn Etherington
Newell Arthur Grover
Andrew Ture Johnson
Myron Harry Lee
Arthur Stanley Littlefield
Clyde Arthur Norton
Robert Pierce Stebbins
Oscar Philip Young

1921

Channing Nichols Baker
Raymond Anthony Snow
Maurice Garthwaite Townend

---

283 Newbury Street, Boston



Delta Psi

CHAPTER ROLL

Alpha	Columbia University
Delta	University of Pennsylvania
Epsilon	Trinity College
Lambda	Williams College
Sigma	Sheffield Scientific School, Yale
Upsilon	University of Virginia
Tau	Massachusetts Institute of Technology

Delta Psi

Tau Chapter — Established 1889

FRATRES

1918

Arthur Wilson Pope
John Coleman Purves
Wirt Russell Robinson

1919

John Robertson Ward

1920

Richard Hunt Goldsmith
John Cuthbert Herron
Kennedy Pope
Francis Clarke Reyburn
James Hamilton Scott
Merritt Harrison Taylor

1921

Oliver Hill Coolidge
Benjamin Fisher, Jr.
Laurens Morgan Hamilton
Edgerton Merrill
Marshall Jewell Root, Jr.
Palmer Scott
Edward Grant Sparrow
Otis Hibbard Trowbridge
Thomas Henry West, 3rd
David Pingree Wheatland
Oliver Edwin Williams, Jr.

---

428 Charles River Road, Cambridge



Chi Phi

Established at Princeton 1824

CHAPTER ROLL

A	University of Virginia	Charlottesville, Va.
B	Massachusetts Institute of Technology	Cambridge, Mass.
Γ	Emory College	Oxford, Ga.
Δ	Rutgers College	New Brunswick, N. J.
E	Hampden-Sidney College	Hampden-Sidney, Va.
Z	Franklin and Marshall College	Lancaster, Pa.
H	University of Georgia	Athens, Ga.
Θ	Rensselaer Polytechnic Institute	Troy, N. Y.
I	Ohio State University	Columbus, Ohio
K	University of Wisconsin	Madison, Wis.
Λ	University of California	Berkeley, Cal.
M	Stevens Institute of Technology	Hoboken, N. J.
N	University of Texas	Austin, Texas
Ξ	Cornell University	Ithaca, N. Y.
O	Sheffield Scientific School, Yale University	New Haven, Conn.
P	Lafayette College	Easton, Pa.
Σ	University of Illinois	Champaign, Ill.
Φ	Amherst College	Amherst, Mass.
X	Dartmouth College	Hanover, N. H.
Ψ	Lehigh University	S. Bethlehem, Pa.
Ω	Georgia School of Technology	Atlanta, Ga.
AX	Ohio Wesleyan University	Delaware, Ohio

Chi Phi

Beta Chapter — Established 1890

FRATRES

1918

Philip Moss Dinkins

1919

Howard Hale McClintic, Jr.
David Curtis Sanford, Jr.
William Bradlee Snow
Francis Octavus Wyse

1920

Prentice Durfey Ash
Archie Prentiss Cochran
Rodman McClintock
Alfred Boyd Wason
Elbridge Wason
Philip Lee Young

1921

Clarence Eldred Baker Coleman
James Rowland Hotchkin
Donald Denny James
Francis Bowen Kittredge
Donald Wolf Randolph
Ellsworth McNaull Wilson

---

44 The Fenway, Boston



Delta Kappa Epsilon

Established 1844 — Yale University

CHAPTER ROLL

Phi	Yale University	1844
Theta	Bowdoin College	1844
Xi	Colby University	1845
Sigma	Amherst College	1846
Gamma	Vanderbilt University	1847
Psi	University of Alabama	1847
Upsilon	Brown University	1850
Beta	University of North Carolina	1851
Eta	University of Virginia	1852
Kappa	Miami University	1852
Lambda	Kenyon College	1852
Pi	Dartmouth College	1853
Iota	Central University of Kentucky	1854
Alpha Alpha	Middlebury College	1854
Omicron	University of Michigan	1855
Epsilon	Williams College	1855
Rho	Lafayette College	1855
Tau	Hamilton College	1856
Mu	Colgate University	1856
Nu	College of the City of New York	1856
Beta Phi	University of Rochester	1856
Phi Chi	Rutgers College	1861
Psi Phi	De Pauw University	1866
Gamma Phi	Wesleyan University	1867
Psi Omega	Rensselaer Polytechnic Institute	1867
Beta Chi	Adelbert College	1868
Delta Chi	Cornell University	1870
Delta Delta	Chicago University	1870
Phi Gamma	Syracuse University	1871
Gamma Beta	Columbia College	1874
Theta Zeta	University of California	1876
Alpha Chi	Trinity College	1879
Phi Epsilon	University of Minnesota	1889
Sigma Tau	Massachusetts Institute of Technology	1890
Tau Lambda	Tulane University	1898
Alpha Phi	University of Toronto	1898
Delta Kappa	University of Pennsylvania	1899
Tau Alpha	McGill University	1901
Sigma Rho	Leland Stanford Junior University	1902
Delta Pi	University of Illinois	1904
Rho Delta	University of Wisconsin	1907
Kappa Epsilon	University of Washington	1910
Omega Chi	University of Texas	1913

Delta Kappa Epsilon

Sigma Tau Chapter — Established 1890

FRATRES IN FACULTATE

Alfred Edgar Burton
Walter Humphreys
Henry Lloyd Smyth
Maurice DeKay Thompson, Jr.

FRATRES

1918

Wingate Rollins
Robert Hawley Wells
John Albert Williams

1919

Frederick Waldo Barney
Charles Wayland Drew, Jr.
Herbert Gordon Fales
Scott Keith
Armour Lionel Reid
Maximilian Untersee

1920

Malcolm Sturtevant Burroughs
Bartholomew Francis Casey
John William Kellar
George Roger McNear
Edwin Delamater Ryer
Scott Hunter Wells

1921

Garvin Bawden
Joseph Henry McEvoy, Jr.
Aubrey Jennings Northrup
Herman LeMont Schmidt
Ernest Farnham Stockwell

---

104 Charles River Road, Cambridge



Phi Beta Epsilon

Local at Technology — Established 1890

ALUMNI ASSOCIATIONS

Boston
Chicago
New York
Northern Ohio
California

Phi Beta Epsilon

Local at Technology — Established 1890

FRATER IN FACULTATE

George Owen, Jr.

FRATRES

1918

Percy Wolcott Carr
Otto Carl Lorenz
John Robinson Poteat
Robert Woods Van Kirk, Jr.
Richard Alfred Wilkins
Walter Chadbourne Wilson
Alfredo de Zubiria Stevenson

1919

Marshall Coulter Balfour
George Raynolds Bond, Jr.
Joseph Elliot Cannell
Benjamin Howland Sherman
Dean Kingman Webster, Jr.

1920

Alan Wollison Burke
John Arnold Farrer, Jr.
Roger Gambee Mosscrop

1921

Eben Hayward Baker
William Robert Barker
Ethan Allen Beer
Donald Woodsworth Curry
Henry Newman Landis
Arthur Warren Norton
Fearing Pratt

400 Charles River Road, Cambridge



Delta Upsilon

Established 1834 — Williams College

CHAPTER ROLL

1834	Williams	Williamstown, Mass.
1838	Union	Schenectady, N. Y.
1847	Hamilton	Clinton, N. Y.
1847	Amherst	Amherst, Mass.
1847	Western Reserve	Cleveland, Ohio
1852	Colby	Waterville, Me.
1852	Rochester	Rochester, N. Y.
1856	Middlebury	Middlebury, Vt.
1857	Bowdoin	Brunswick, Me.
1858	Rutgers	New Brunswick, N. J.
1860	Brown	Providence, R. I.
1865	Colgate	Hamilton, N. Y.
1865	New York	New York City
1868	Miami	Oxford, Ohio
1869	Cornell	Ithaca, N. Y.
1870	Marietta	Marietta, Ohio
1873	Syracuse	Syracuse, N. Y.
1876	Michigan	Ann Arbor, Mich.
1880	Northwestern	Evanston, Ill.
1880	Harvard	Cambridge, Mass.
1885	Wisconsin	Madison, Wis.
1885	Lafayette	Easton, Pa.
1885	Columbia	New York City
1885	Lehigh	South Bethlehem, Pa.
1886	Tufts	Tufts College, Mass.
1887	De Pauw	Greencastle, Ind.
1888	Pennsylvania	Philadelphia, Pa.
1890	Minnesota	Minneapolis, Minn.
1891	Technology	Cambridge, Mass.
1893	Swarthmore	Swarthmore, Pa.
1896	California	Berkeley, Cal.
1896	Leland Stanford Junior	Stanford University, Cal.
1898	Nebraska	Lincoln, Neb.
1898	McGill	Montreal, Can.
1899	Toronto	Toronto, Can.
1901	Chicago	Chicago, Ill.
1904	Ohio State	Columbus, Ohio
1905	Illinois	Champaign, Ill.
1910	Washington	Seattle, Wash.
1911	Pennsylvania State	State College, Pa.
1913	Iowa State	Ames, Ia.
1914	Purdue	Lafayette, Ind.
1915	Indiana	Bloomington, Ind.
1917	Carnegie	Pittsburgh, Pa.

Delta Upsilon

Technology Chapter — Established 1891

FRATRES IN FACULTATE

Louis Derr
Hector James Hughes
Arthur Lewis McCobb
Paul Willard Norton
Rufus Cook Reed
Frank Vogel

FRATRES

1918

Edward Norton Little

1919

Roderic Leslie Bent
Frederick William Boley

1920

Vaughn Johonnott Byron
David Lewis Fiske
Philip Ebling Haebler
John Crandon Nash
John Nolen, Jr.
Moses Bernard Pike
Walter Lawrence Winant

1921

Henry du Pont Baldwin
Hamilton Beattie
Malcolm Burch Beattie
Leland Kinsey Cowie
Irving Daniel Jakobson
Charles Eli Mendinhall
Arthur Webster Morse
Rollin Francis Officer
Stephen Eastman Root

---

526 Beacon Street, Boston



Sigma Alpha Epsilon

Founded in 1856 at the University of Alabama, Tuscaloosa, Ala.

CHAPTER ROLL

Province Alpha

Maine Alpha	University of Maine	Orono, Me.
Massachusetts Iota Tau	Massachusetts Institute of Technology	Cambridge, Mass.
Massachusetts Beta Upsilon	Boston University	Boston, Mass.
Massachusetts Gamma	Harvard University	Cambridge, Mass.
Massachusetts Delta	Worcester Polytechnic Institute	Worcester, Mass.
New Hampshire Alpha	Dartmouth College	Hanover, N. H.
New Hampshire Beta	New Hampshire State College	Durham, N. H.

Province Beta

New York Alpha	Cornell University	Ithaca, N. Y.
New York Mu	Columbia University	New York City
New York Sigma Phi	St. Stephen's College	Annandale, N. Y.
New York Delta	Syracuse University	Syracuse, N. Y.
Pennsylvania Omega	Allegheny College	Meadville, Pa.
Pennsylvania Sigma Phi	Dickinson College	Carlisle, Pa.
Pennsylvania Alpha Zeta	Pennsylvania State College	State College, Pa.
Pennsylvania Zeta	Bucknell University	Lewisburg, Pa.
Pennsylvania Delta	Gettysburg College	Gettysburg, Pa.
Pennsylvania Theta	University of Pennsylvania	Philadelphia, Pa.
Pennsylvania Chi Omicron	University of Pittsburgh	Pittsburgh, Pa.

Province Gamma

Virginia Omicron	University of Virginia	Charlottesville, Va.
Washington City Rho	George Washington University	Washington, D. C.
Virginia Sigma	Washington and Lee University	Lexington, Va.
North Carolina Xi	University of North Carolina	Chapel Hill, N. C.
North Carolina Theta	Davidson University	Davidson, N. C.

Province Delta

Michigan Iota Beta	University of Michigan	Ann Arbor, Mich.
Michigan Alpha	Adrian College	Adrian, Mich.
Ohio Sigma	Mt. Union College	Alliance, Ohio
Ohio Delta	Ohio Wesleyan University	Delaware, Ohio
Ohio Epsilon	University of Cincinnati	Cincinnati, Ohio
Ohio Theta	Ohio State University	Columbus, Ohio
Ohio Rho	Case School of Applied Science	Cleveland, Ohio
Indiana Alpha	Franklin College	Franklin, Ind.
Indiana Beta	Purdue University	West Lafayette, Ind.
Indiana Gamma	University of Indiana	Bloomington, Ind.
Illinois Psi Omega	Northwestern University	Evanston, Ill.
Illinois Beta	University of Illinois	Champaign, Ill.
Illinois Theta	University of Chicago	Chicago, Ill.
Illinois Delta	Millikin University	Decatur, Ill.
Minnesota Alpha	University of Minnesota	Minneapolis, Minn.
Wisconsin Alpha	University of Wisconsin	Madison, Wis.
Wisconsin Phi	Beloit College	Beloit, Wis.

Province Epsilon

Georgia Beta	University of Georgia	Athens, Ga.
Georgia Psi	Mercer University	Macon, Ga.
Georgia Epsilon	Emory College	Oxford, Ga.
Georgia Phi	Georgia School of Technology	Atlanta, Ga.
Alabama Iota	Southern University	Greensboro, Ala.
Alabama Mu	University of Alabama	University, Ala.
Alabama Alpha Mu	Alabama Polytechnic Institute	Auburn, Ala.
Florida Upsilon	University of Florida	Gainesville, Fla.

PROVINCE ZETA

Missouri Alpha	University of Missouri	Columbia, Mo.
Missouri Beta	Washington University	St. Louis, Mo.
Nebraska Lambda Pi	University of Nebraska	Lincoln, Neb.
Arkansas Alpha Upsilon	University of Arkansas	Fayetteville, Ark.
Kansas Alpha	University of Kansas	Lawrence, Kan.
Kansas Beta	Kansas State College	Manhattan, Kan.
Iowa Beta	University of Iowa	Iowa City, Ia.
Iowa Gamma	Iowa State College	Ames, Ia.
South Dakota Sigma	University of South Dakota	Vermilion, S. Dak.

PROVINCE ETA

Colorado Chi	University of Colorado	Boulder, Col.
Colorado Zeta	University of Denver	Denver, Col.
Colorado Lambda	Colorado School of Mines	Golden, Col.
Colorado Delta	Colorado Agricultural College	Fort Collins, Col.
Wyoming Alpha	University of Wyoming	Laramie, Wyo.

PROVINCE THETA

Lousiana Epsilon	Louisiana State University	Baton Rouge, La.
Lousiana Tau Upsilon	Tulane University	New Orleans, La.
Texas Rho	University of Texas	Austin, Texas
Oklahoma Kappa	University of Oklahoma	Norman, Okla.

PROVINCE IOTA

Kentucky Kappa	Central University	Danville, Ky.
Kentucky Iota	Bethel College	Russellville, Ky.
Kentucky Epsilon	Kentucky State University	Lexington, Ky.
Tennessee Zeta	Southwestern Presbyterian University	Clarksville, Tenn.
Tennessee Lambda	Cumberland University	Lebanon, Tenn.
Tennessee Nu	Vanderbilt University	Nashville, Tenn.
Tennessee Kappa	University of Tennessee	Knoxville, Tenn.
Tennessee Omega	University of the South	Sewanee, Tenn.
Tennessee Eta	Union University	Jackson, Tenn.

PROVINCE KAPPA

California Alpha	Leland Stanford Jr. University	Stanford, Cal.
California Beta	University of California	Berkeley, Cal.
Arizona Alpha	University of Arizona	Tucson, Ariz.
Nevada Alpha	University of Nevada	Reno, Nev.

PROVINCE LAMBDA

Washington Alpha	University of Washington	Seattle, Wash
Washington Beta	Washington State University	Pullman, Wash.
Oregon Alpha	Oregon State College	Corvallis, Ore.

Sigma Alpha Epsilon

Massachusetts Iota Tau Chapter — Established 1892

FRATRES IN FACULTATE

William Thomas Hall — Ralph George Overland

FRATRES

1919

Myron Harrison Clark — Frederick Gorham Clark Smith, Jr.

1920

Norris Greenleaf Abbott, Jr. — Harold Frierson Hunter
Herbert Cogswell Button — Robert Patterson
Jesse Irwin Doyle — Augustin Charles Titus

1921

Edward Walcott Booth — Bruce Falconer Rogers
Francis Dana Gage — Nathan Herbert Sanderson, Jr
Clark Doane Green — Wilfred Mulock Thomson
Alexander Duer Harvey — Ralph Waldo Wood

484 Beacon Street, Boston



Delta Tau Delta

Established at Bethany College, 1859

CHAPTER ROLL

Southern Division

Lambda	Vanderbilt University
Phi	Washington and Lee University
Beta Delta	University of Georgia
Beta Epsilon	Emory College
Beta Theta	University of the South
Beta Iota	University of Virginia
Beta Xi	Tulane University
Gamma Eta	George Washington University
Gamma Iota	University of Texas

Western Division

Omicron	University of Iowa
Beta Gamma	University of Wisconsin
Beta Eta	University of Minnesota
Beta Kappa	University of Colorado
Beta Pi	Northwestern University
Beta Rho	Leland Stanford Junior University
Beta Tau	University of Nebraska
Beta Upsilon	University of Illinois
Beta Omega	University of California
Gamma Alpha	University of Chicago
Gamma Beta	Armour Institute of Technology
Gamma Theta	Baker University
Gamma Kappa	University of Missouri
Gamma Mu	University of Washington
Gamma Pi	Iowa State College
Gamma Rho	University of Oregon
Gamma Tau	University of Kansas

Northern Division

Beta	Ohio University
Delta	University of Michigan
Epsilon	Albion College
Zeta	Western Reserve University
Kappa	Hillsdale College

Northern Division — Continued

Mu	Ohio Wesleyan University
Chi	Kenyon College
Beta Alpha	Indiana University
Beta Beta	De Pauw University
Beta Zeta	Butler College
Beta Phi	Ohio State University
Beta Psi	Wabash College
Gamma Delta	West Virginia University
Gamma Lambda	Purdue University
Gamma Xi	University of Cincinnati
Gamma Upsilon	Miami University

Eastern Division

Alpha	Allegheny College
Gamma	Washington and Jefferson College
Nu	Lafayette College
Rho	Stevens Institute of Technology
Tau	Pennsylvania State College
Upsilon	Rensselaer Polytechnic Institute
Omega	University of Pennsylvania
Beta Lambda	Lehigh University
Beta Mu	Tufts College
Beta Nu	Massachusetts Institute of Technology
Beta Omicron	Cornell University
Beta Chi	Brown University
Gamma Gamma	Dartmouth College
Gamma Epsilon	Columbia University
Gamma Zeta	Wesleyan University
Gamma Nu	University of Maine
Gamma Omicron	Syracuse University
Gamma Sigma	University of Pittsburgh

Delta Tau Delta

Beta Nu Chapter — Established 1889

FRATRES

1918

Walter Stephen Frazier, Jr.
George Edward McLaughlin
Joseph Henry Stagg, Jr.
Marvin Mayfield Stetler

1919

Minor Millikin Beckett
Louis Armistead Brown, Jr.
Edward Ellis Scofield

1920

Fred Forest Dowlin
John Jerome Hines, Jr.
Theodore Foster Hobson
Edward Vaughn Jones
Merrill B. Knox
William Henry Leonori, Jr.
John Alden Philbrick, Jr.
Paul Bernard Wendler

1921

Lawson Tisdale Blood
Trevor Otto Moorhead Davidson
Edward Edwards
George Orrin Hartman
Clinton Arthur Newton
Marshall Efmory Pridmore
Dwight Elliott Stagg
Warren Gookin Waterman, Jr.

4 Ames Street, Cambridge



Phi Gamma Delta

Established 1848

CHAPTER ROLL

Alpha	Washington and Jefferson College	Washington, Pa.
Lambda	De Pauw University	Greencastle, Ind.
Omicron	University of Virginia	Charlottesville, Va.
Xi	Gettysburg College	Gettysburg, Pa.
Pi	Allegheny College	Meadville, Pa.
Tau	Hanover College	Hanover, Ind.
Psi	Wabash College	Crawfordsville, Ind.
Omega	Columbia University	New York City
Alpha Deuteron	Illinois Wesleyan University	Bloomington, Ill.
Gamma Deuteron	Knox College	Galesburg, Ill.
Zeta Deuteron	Washington and Lee University	Lexington, Va.
Theta Deuteron	Ohio Wesleyan University	Delaware, Ohio
Zeta	Indiana State University	Bloomington, Ind.
Nu Deuteron	Yale University	New Haven, Conn.
Omicron Deuteron	Ohio State University	Columbus, Ohio
Beta	University of Pennsylvania	Philadelphia, Pa.
Pi Deuteron	University of Kansas	Lawrence, Kan.
Delta	Bucknell University	Lewisburg, Pa.
Lambda Deuteron	Denison University	Granville, Ohio
Sigma Deuteron	Lafayette College	Easton, Pa.
Sigma	Wittenberg College	Springfield, Ohio
Zeta Phi	William Jewell	Liberty, Mo.
Delta Xi	University of California	Berkeley, Cal.
Theta Psi	Colgate University	Hamilton, N. Y.
Beta Chi	Lehigh University	S. Bethlehem, Pa.
Gamma Phi	Pennsylvania State College	State College, Pa.
Iota Mu	Massachusetts Institute of Technology	Cambridge, Mass.
Kappa Nu	Cornell University	Ithaca, N. Y.
Mu Sigma	University of Minnesota	Minneapolis, Minn.
Rho Chi	Richmond College	Richmond, Va.
Beta Mu	Johns Hopkins	Baltimore, Md.
Kappa Tau	University of Tennessee	Knoxville, Tenn.
Pi Iota	Worcester Polytechnic Institute	Worcester, Mass.
Nu Epsilon	New York University	University Heights, N. Y.
Alpha Chi	Amherst College	Amherst, Mass.
Tau Alpha	Trinity College	Hartford, Conn.
Chi	Union College	Schenectady, N. Y.
Mu	University of Wisconsin	Madison, Wis.
Chi Iota	University of Illinois	Champaign, Ill.

Lambda Nu	University of Nebraska	Lincoln, Neb.
Chi Mu	University of Missouri	Columbia, Mo.
Omega Mu	University of Maine	Orono, Me.
Sigma Tau	University of Washington	Seattle, Wash.
Delta Nu	Dartmouth College	Hanover, N. H.
Sigma Nu	University of Syracuse	Syracuse, N. Y.
Theta	University of Alabama	Tuscaloosa, Ala.
Tau Deuteron	University of Texas	Austin, Tex.
Xi Deuteron	Western Reserve	Cleveland, Ohio
Lambda Iota	Purdue University	Lafayette, Ind.
Pi Rho	Brown University	Providence, R. I.
Chi Upsilon	Chicago University	Chicago, Ill.
Alpha Phi	University of Michigan	Ann Arbor, Mich.
Lambda Sigma	Leland Stanford Junior University	Stanford University, Cal.
Alpha Iota	Iowa State College	Ames, Ia.
Chi Sigma	Colorado College	Colorado Springs, Col.
Epsilon Omicron	University of Oregon	Eugene, Ore.
Beta Kappa	University of Colorado	Boulder, Col.
Iota	Williams College	Williamstown, Mass.

Phi Gamma Delta

Iota Mu Chapter — Established 1889

FRATER IN FACULTATE

Henry Paul Talbot

FRATRES

1918

George Donald Bradley
Julius Amor Buerkin
Robert Vincent Derrah
Saxton Woodberry Fletcher

1919

Roderic Miller Blood
Laurance Melvin Dalton
John Lawrence Riegel
Everett Fitz Doten
Alan Henderson McIntosh

1920

John Clement Barker
Norman Putnam Dana
Raymond Edward Davis
Lyman Perley Whitten
Harland Alexander Gray
Bruce Munger Steele
Carlton Hart Talcott

1921

Richard McKay
John Lyson Vaupel
Charles Fitch Parker

491 Commonwealth Avenue, Boston



Phi Sigma Kappa

Established 1873 — Massachusetts Agricultural College

CHAPTER ROLL

A	Massachusetts Agricultural College	Amherst, Mass.
B	Union University	Albany, N. Y.
Γ	Cornell University	Ithaca, N. Y.
Δ	University of West Virginia	Morgantown, W. Va.
E	Yale University	New Haven, Conn.
Z	College of the City of New York	New York City
H	University of Maryland	Baltimore, Md.
Θ	Columbia University	New York City
I	Stevens Institute of Technology	Hoboken, N. J.
K	Pennsylvania State College	State College, Pa.
Λ	George Washington University	Washington, D. C.
M	University of Pennsylvania	Philadelphia, Pa.
N	Lehigh University	South Bethlehem, Pa.
Ξ	St. Lawrence University	Canton, N. Y.
O	Massachusetts Institute of Technology	Cambridge, Mass.
Π	Franklin and Marshall College	Lancaster, Pa.
Σ	St. John's College	Annapolis, Md.
T	Dartmouth College	Hanover, N. H.
Υ	Brown University	Providence, R. I.
Φ	Swarthmore College	Swarthmore, Pa.
X	Williams College	Williamstown, Mass.
Ψ	University of Virginia	Charlottesville, Va.
Ω	University of California	Berkeley, Cal.
AΔ	University of Illinois	Champaign, Ill.
BΔ	University of Minnesota	Minneapolis, Minn.
ΓΔ	Iowa State College	Ames, Ia.
ΔΔ	University of Michigan	Ann Arbor, Mich.
EΔ	Worcester Polytechnic Institute	Worcester, Mass.
ZΔ	University of Nevada	Reno, Nev.
HΔ	University of Wisconsin	Madison, Wis.

Phi Sigma Kappa

Omicron Chapter — Established 1902

FRATRES IN FACULTATE

Charles Blaney Breed
Edward Furber Miller
Frederick George Keyes

FRATRES

1918

Clarence Eustus Bassett
Ronald Benjamin Brown
Stuart Hill Caldwell
Samuel Harrison Chamberlain, Jr.
George Bradfield Hutchings, Jr.
Wendell Howard Kayser
Arthur Elmer Windle

1919

Gilbert Francis Beers
Raymond Guy Lafean
Stephen Allan Merselis
Frank George Osgood
Amos Neal Prescott
Arthur Roberts

1920

Richard Hawkins Gee
James Harrop
Wilford Priest Hooper
Frank Parker Hudnut, Jr.
Armand St. Martin Kreeger
John Russell Perkins, Jr.

1921

Charles Bradford Barton, Jr.
John Morse Giles
Henry Langdon Haltermann
Lars Emil Gano Larsson
Norman Frisbie Patton
Henry Davenport Tucker
Eliot Underhill
William Hoyt Young

517 Beacon Street, Boston



Theta Chi

Established at Norwich University, 1856

CHAPTER ROLL

Alpha	Norwich University	Northfield, Vt.
Beta	Massachusetts Institute of Technology	Cambridge, Mass.
Gamma	University of Maine	Orono, Me.
Delta	Rensselaer Polytechnic Institute	Troy, N. Y.
Epsilon	Worcester Polytechnic Institute	Worcester, Mass.
Zeta	New Hampshire State College	Durham, N. H.
Eta	Rhode Island State College	Kingston, R. I.
Theta	Massachusetts Agricultural College	Amherst, Mass.
Iota	Colgate University	Hamilton, N. Y.
Kappa	University of Pennsylvania	Philadelphia, Pa.
Lambda	Cornell University	Ithaca, N. Y.
Mu	University of California	Berkeley, Cal.
Nu	Hampden-Sidney College	Hampden-Sidney, Va.
Xi	University of Virginia	Charlottesville, Va.
Omicron	Richmond College	Richmond, Va.
Pi	Dickinson College	Carlisle, Pa.
Rho	University of Illinois	Champaign, Ill.
Sigma	Oregon Agricultural College	Corvallis, Ore.
Tau	University of Florida	Gainesville, Fla.

Boston Alumni Chapter	Boston, Mass.
New York Alumni Chapter	New York City
Western Vermont Alumni Chapter	Burlington, Vt.
Pittsburgh Alumni Chapter	Pittsburgh, Pa.
Providence Alumni Chapter	Providence, R. I.
Worcester Alumni Chapter	Worcester, Mass.
Hartford Alumni Chapter	Hartford, Conn.
Philadelphia Alumni Chapter	Philadelphia, Pa.
San Francisco Alumni Chapter	Berkeley, Cal.

Founded at the University of Pennsylvania in 1850

Theta Chi

Beta Chapter — Established 1902

FRATER IN FACULTATE

Herbert Percival Hollnagel

FRATRES

1918

Ralph Frederick Fleming Brooks
Frederick Leslie Ford
Asher Winthrop Joslin
Cornelius Van Santvoord Knox

1919

Edmund Chauncy Adams
Benjamin Hiel Bristol, 2nd
Thomas Lawrence Goodwin
Frank Clark Hoyt
Friedrich Arthur Kaupe
Marshall Baldwin Lee

1920

Charles Du Bois Carleton
Bradford Judson Clark
William Tibbits Honiss
Frank Watson Lawton
John Wood Logan, Jr.
Alden Williams Miller
Gerald Tattersfield
Robert Wilson Tirrell
Kenneth Blake White

1921

Robert Walker Barker
Ronald Dalrymple Brown
Curtis Tarring Gardner
George Frank Lord
John Thomas Rule
Williston Wirt

161 Bay State Road, Boston



Phi Kappa Sigma

Founded at the University of Pennsylvania in 1850

CHAPTER ROLL

Alpha	University of Pennsylvania	Philadelphia, Pa.
Delta	Washington and Jefferson College	Washington, Pa.
Epsilon	Dickinson College	Carlisle, Pa.
Zeta	Franklin and Marshall College	Lancaster, Pa.
Eta	University of Virginia	University, Va.
Iota	Columbia University	New York City
Mu	Tulane University	New Orleans, La.
Rho	University of Illinois	Champaign, Ill.
Tau	Randolph-Macon College	Ashland, Va.
Upsilon	Northwestern University	Evanston, Ill.
Phi	Richmond College	Richmond, Va.
Psi	Pennsylvania State College	State College, Pa.
Alpha Alpha	Washington and Lee University	Lexington, Va.
Alpha Gamma	University of West Virginia	Morgantown, W. Va.
Alpha Delta	University of Maine	Orono, Me.
Alpha Epsilon	Armour Institute of Technology	Chicago, Ill.
Alpha Zeta	University of Maryland	Baltimore, Md.
Alpha Theta	University of Wisconsin	Madison, Wis.
Alpha Iota	Vanderbilt University	Nashville, Tenn.
Alpha Kappa	University of Alabama	Tuscaloosa, Ala.
Alpha Lambda	University of California	Berkeley, Cal.
Alpha Mu	Massachusetts Institute of Technology	Cambridge, Mass.
Alpha Nu	Georgia Institute of Technology	Atlanta, Ga.
Alpha Xi	Purdue University	West Lafayette, Ind.
Alpha Omicron	University of Michigan	Ann Arbor, Mich.
Alpha Pi	University of Chicago	Chicago, Ill.
Alpha Rho	Cornell University	Ithaca, N. Y.
Alpha Sigma	University of Minnesota	Minneapolis, Minn.
Alpha Tau	Leland Stanford Junior University	Stanford University, Cal.

ALUMNI CHAPTERS

Philadelphia	Richmond	Chicago	New York
Pittsburgh	Baltimore	New Orleans	Southern California
Atlanta	Harrisburg	Evanston	Detroit
San Francisco	Boston	Nashville	

Phi Kappa Sigma

Alpha Mu Chapter — Established 1903

FRATRES IN FACULTATE

Dugald Caleb Jackson

William Hultz Walker

FRATRES

1918

William Hastings Bassett, Jr.
Nelson Arthur Bond
William Penn Fisher
Julian Cheever Howe

1919

Charles Joel Farist
John Wiswell Meader
Eugene Ralph Smoley
Lansing Mott Quick
Edgar Reynolds Smith

1920

Allen Drew Addicks
George Henry Burt
Thomas Carlton Rowen
William Judson Dean
Albert Kruse

1921

Paul Nathaniel Anderson
Fred Russell Eugene Dean, Jr.
Reginald Hammonick Smithwick
Winter Dean
Barrett Grout Hindes

203 Bay State Road, Boston



Alpha Tau Omega

Founded at Virginia Military Institute in 1865

CHAPTER ROLL

Province I

Florida Alpha Omega	University of Florida	Gainesville, Fla.
Georgia Alpha Beta	University of Georgia	Athens, Ga.
Georgia Alpha Theta	Emory College	Oxford, Ga.
Georgia Alpha Zeta	Mercer University	Macon, Ga.
Georgia Beta Iota	Georgia School of Technology	Atlanta, Ga.

Province II

Illinois Gamma Zeta	University of Illinois	Champaign, Ill.
Illinois Gamma Xi	University of Chicago	Chicago, Ill.
Indiana Delta Alpha	Indiana University	Bloomington, Ind.
Indiana Gamma Gamma	Rose Polytechnic Institute	Terre Haute, Ind.
Indiana Gamma Omicron	Purdue University	Lafayette, Ind.
Michigan Alpha Mu	Adrian College	Adrian, Mich.
Michigan Beta Kappa	Hillsdale College	Hillsdale, Mich.
Michigan Beta Lambda	University of Michigan	Ann Arbor, Mich.
Michigan Beta Omicron	Albion College	Albion, Mich.
Wisconsin Gamma Tau	University of Wisconsin	Madison, Wis.

Province III

Colorado Gamma Lambda	University of Colorado	Boulder, Col.
Iowa Beta Alpha	Simpson College	Indianola, Ia.
Iowa Delta Beta	University of Iowa	Iowa City, Ia.
Iowa Gamma Upsilon	Iowa State College	Ames, Ia.
Kansas Gamma Mu	University of Kansas	Lawrence, Kan.
Minnesota Gamma Nu	University of Minnesota	Minneapolis, Minn.
Missouri Gamma Rho	University of Missouri	Columbia, Mo.
Nebraska Gamma Theta	University of Nebraska	Lincoln, Neb.
Wyoming Gamma Psi	University of Wyoming	Laramie, Wyo.

Province IV

Maine Beta Upsilon	University of Maine	Orono, Me.
Maine Gamma Alpha	Colby College	Waterville, Me.
Massachusetts Beta Gamma	Massachusetts Institute of Technology	Cambridge, Mass.
Massachusetts Gamma Beta	Tufts College	Tufts College, Mass.
Massachusetts Gamma Sigma	Worcester Polytechnic Institute	Worcester, Mass.
New Hampshire Delta	New Hampshire State College	Durham, N. H.
Rhode Island Gamma Delta	Brown University	Providence, R. I.
Vermont Beta Zeta	University of Vermont	Burlington, Vt.

Province V

New York Alpha Omicron	St. Lawrence University	Canton, N. Y.
New York Beta Theta	Cornell University	Ithaca, N. Y.
Pennsylvania Alpha Iota	Muhlenberg College	Allentown, Pa.
Pennsylvania Alpha Pi	Washington and Jefferson College	Washington, Pa.
Pennsylvania Alpha Rho	Lehigh University	S. Bethlehem, Pa.
Pennsylvania Alpha Upsilon	Pennsylvania College	Gettysburg, Pa.
Pennsylvania Gamma Omega	Pennsylvania State College	State College, Pa.
Pennsylvania Tau	University of Pennsylvania	Philadelphia, Pa.

Province VI

North Carolina Alpha Delta	University of North Carolina	Chapel Hill, N. C.
North Carolina Xi	Trinity College	Durham, N. C.
South Carolina Beta Xi	College of Charleston	Charleston, S. C.
Virginia Beta	Washington and Lee University	Lexington, Va.
Virginia Delta	University of Virginia	Charlottesville, Va.

PROVINCE VII

Ohio Alpha Nu	Mt. Union College	Alliance, Ohio
Ohio Alpha Psi	Wittenberg College	Springfield, Ohio
Ohio Beta Eta	Ohio Wesleyan University	Delaware, Ohio
Ohio Beta Omega	Ohio State University	Columbus, Ohio
Ohio Gamma Kappa	Western Reserve University	Cleveland, Ohio

PROVINCE VIII

Kentucky Mu Iota	State University of Kentucky	Lexington, Ky.
Tennessee Alpha Tau	Southwestern Presbyterian University	Clarksville, Tenn.
Tennessee Beta Pi	Vanderbilt University	Nashville, Tenn.
Tennessee Beta Tau	Union University	Jackson, Tenn.
Tennessee Omega	University of the South	Sewanee, Tenn.
Tennessee Pi	University of Tennessee	Knoxville, Tenn.

PROVINCE IX

California Beta Psi	Leland Stanford Junior University	Stanford University, Cal.
California Gamma Iota	University of California	Berkeley, Cal.
Oregon Alpha Sigma	Oregon Agricultural College	Corvallis, Ore.
Oregon Gamma Phi	University of Oregon	Eugene, Ore.
Washington Gamma Chi	Washington State College	Pullman, Wash.
Washington Gamma Pi	University of Washington	Seattle, Wash.

PROVINCE X

Alabama Alpha Epsilon	Alabama Polytechnic Institute	Auburn, Ala.
Alabama Beta Beta	Southern University	Greensboro, Ala.
Alabama Beta Delta	University of Alabama	Tuscaloosa, Ala.
Louisiana Beta Epsilon	Tulane University	New Orleans, La.
Texas Gamma Eta	University of Texas	Austin, Texas

Alpha Tau Omega

Beta Gamma Chapter — Established 1885

FRATRES IN FACULTATE

Charles Francis Park
George Edmund Russell
William Harold Wilson

FRATRES

1918

Georgius Young Cannon
Carlyle Darracott Fiske
Parker Henry Kennedy
James Everett Rowe

1919

William Howard Banks
Robert Prescott Hackett
Russell Heath Savage
Edwin Chester Shultz
Archer Greenlaw Smith
Dean Frederick Willey

1920

David Paul Brown
George Irving Brown
Charles Wesley Eaton
Weston Hadden
Wilhelm Theodor Hedlund
Warren McKeen Hussey
William Riley McKeen
Robert Rich Rowe
Oscar Buzzell Sias

1921

Samuel Fletcher Chalfin
John Wheeler Church
Carl William Stark
Edmund Spurr Whitman

37 Bay State Road, Boston



Theta Delta Chi

Established 1847

CHARGE ROLL

Beta	Cornell University	1870
Gamma Deuteron	University of Michigan	1889
Delta Deuteron	University of California	1900
Epsilon	College of William and Mary	1853
Zeta	Brown University	1853
Zeta Deuteron	McGill University	1901
Eta	Bowdoin College	1854
Eta Deuteron	Leland Stanford Junior University	1903
Theta Deuteron	Massachusetts Institute of Technology	1890
Iota Deuteron	Williams College	1891
Kappa	Tufts College	1856
Kappa Deuteron	University of Illinois	1908
Mu Deuteron	Amherst College	1885
Nu	University of Virginia	1857
Nu Deuteron	Lehigh University	1884
Xi	Hobart College	1857
Xi Deuteron	University of Washington	1913
Deuteron	Dartmouth College	1869
Pi Deuteron	College of the City of New York	1881
Rho Deuteron	Columbia University	1883
Sigma Deuteron	University of Wisconsin	1895
Tau Deuteron	University of Minnesota	1895
Phi	Lafayette College	1867
Phi Deuteron	University of Pennsylvania	1915
Chi	University of Rochester	1867
Chi Deuteron	George Washington University	1896
Psi	Hamilton College	1863
Lambda Deuteron	University of Toronto	1912

Theta Delta Chi

Theta Deuteron Charge — Established 1890

FRATRES IN FACULTATE

Nathan Richard George, Jr.
Erwin Haskell Schell

FRATRES

1918

James Marion Bugbee
Herman Dedichen
Edwin Russell Harrall
Ottomar Gay Hugo
Willard Earl Imhoff

1919

Harold Beidler Caldwell
Waldo Bishop Clark
Henry Carvill Haskell
Conrad Hanson Hedin
Warren Allston Maynard
Adolph Frederick Spiehler
William Grow Welch
Herbert Franklin Young

1920

Herman Broockman, Jr.
Harold Bugbee
Percy Bugbee
Joseph Coleman Deyette
Archibald Hendrie Kinghorn, Jr.
Donald Ball McGuire
William Emil Meissner
Henry Russell Murphy
Eugene Perry Rowell, Jr.
John Chester Wilson
William Earl Zimmerman

1921

Lincoln Barrett Barker
Maxwell Kellogg Burckett
Lawrence Wicks Conant
Josiah Denton Crosby
Roger Henderson Damon
Joseph Henry Guild
Henri Pell Junod
George Howard Le Fevre
Fred Myron Rowell
Albert Ervin Smith
Marshall Hayden Winchester

---

334 Harvard Street, Cambridge



Lambda Phi

Local at Technology — Established 1906

Lambda Phi

Local at Technology — Established 1906

FRATRES

1918

Nino Tesher Catlin

1919

Herbert Walter Best
Edward Crippen Layng
William Orick Stevenson
Donald Dickinson Way

1920

Jean Edgar Bëïque
Earl Chester Fairbrother
Harry Montgomery Noelke
Walter Albert Sherbrooke

1921

Edward Wood Jackson
Thomas Theodore Stevenson
Hezekiah Allen Wescott

---

493 Commonwealth Avenue, Boston



Lambda Chi Alpha

Established at Boston University, 1912

ZETA ROLL

Alpha Zeta	Boston University	Boston, Mass.
Gamma Zeta	Massachusetts Agricultural College	Amherst, Mass.
Epsilon Zeta	University of Pennsylvania	Philadelphia, Pa.
Zeta Zeta	Pennsylvania State College	State College, Pa.
Iota Zeta	Brown University	Providence, R. I.
Lambda Zeta	Massachusetts Institute of Technology	Cambridge, Mass.
Beta Zeta	University of Maine	Orono, Me.
Sigma Zeta	University of Michigan	Ann Arbor, Mich.
Phi Zeta	Rutgers College	New Brunswick, N. J.
Delta Zeta	Bucknell University	Lewisburg, Pa.
Pi Zeta	Worcester Polytechnic Institute	Worcester, Mass.
Omicron Zeta	Cornell University	Ithaca, N. Y.
Mu Zeta	University of California	Berkeley, Cal.
Tau Zeta	Washington State College	Pullman, Wash.
Eta Zeta	Rhode Island State College	Kingston, R. I.
Upsilon Zeta	Louisiana State University	Baton Rouge, La.
Xi Zeta	De Pauw University	Greencastle, Ind.
Chi Zeta	University of Illinois	Urbana, Ill.
Omega Zeta	Alabama Polytechnic Institute	Auburn, Ala.
Kappa Zeta	Knox College	Galesburg, Ill.
Nu Zeta	University of Georgia	Athens, Ga.
Rho Zeta	Union College	Schenectady, N. Y.
Psi Zeta	Purdue University	Lafayette, Ind.
Alpha Alpha Zeta	Butler College	Indianapolis, Ind.
Alpha Gamma Zeta	University of South Dakota	Vermilion, S. D.
Alpha Epsilon Zeta	Harvard University	Cambridge, Mass.
Alpha Zeta Zeta	Colgate University	Hamilton, N. Y.
Alpha Iota Zeta	Northwestern University	Evanston, Ill.
Alpha Lambda Zeta	Oregon Agricultural College	Corvallis, Ore.
Alpha Beta Zeta	University of Wisconsin	Madison, Wis.
Alpha Sigma Zeta	Cumberland University	Lebanon, Tenn.
Alpha Phi Zeta	University of Alabama	University, Ala.
Alpha Delta Zeta	Missouri School of Mines	Rolla, Mo.
Alpha Pi Zeta	University of Denver	Denver, Col.
Alpha Omicron Zeta	University of Indiana	Bloomington, Ind.
Alpha Mu Zeta	University of Texas	Austin, Texas
Alpha Tau Zeta	Ames College	Ames, Iowa
Alpha Eta Zeta	Oklahoma Agricultural and Mechanics College	Stillwater, Okla.

Lambda Chi Alpha

Lambda Zeta — Established 1913

FRATER IN FACULTATE

Edwin Tuttle Cole

FRATRES

1918

Ernest Reuben Bridgwater
Earl Preston Collins
Donald Chapin Goss
Perry Anderson Hewitt
Karl Herman Kaiser
Allyne Cushing Litchfield
Kenneth Reid
Raphael Robinson Rowe
Raymond Slack Smith
Sumner Kennard Wiley
Royal Barry Wills

1919

Stanton Holway Breed
Norman Douglas Conniers
Cutter Pierce Davis
Thomas Sieger Derr
Arthur Everett Farrington
Robert Fairn Lewis
William Roy Mackay
John Richard Rowe
Eaton Webber

1920

Kenneth Fellows Akers
Laurence Elbridge Boyden
Allen Adin Brown
Phillip Sewall Brown
Harmon Bridwell Deal
George Frank Gokey, Jr.
Albert Valentine Smith
James Harold Stacey
Louis Roy Vance
Irving Harrison Wilson
Leland David Wilson

1921

Harold Manger Estabrook
Erwin Robert Hermann
Frank Ellsworth Huggins, Jr.
Ralph Weston Leach
Stuart Nixon
Kenneth Reynold Sutherland

200 Bay State Road, Boston



Beta Theta Pi

Founded in 1839 at Miami University, Oxford, Ohio

CHAPTER ROLL

Alpha	Miami University	Oxford, Ohio
Beta	Western Reserve University	Cleveland, Ohio
Beta Kappa	Ohio University	Athens, Ohio
Gamma	Washington and Jefferson University	Washington, Pa.
Delta	De Pauw University	Greencastle, Ind.
Pi	Indiana University	Bloomington, Ind.
Lambda	University of Michigan	Ann Arbor, Mich.
Tau	Wabash College	Crawfordsville, Ind.
Epsilon	Central University	Danville, Ky.
Kappa	Brown University	Providence, R. I.
Eta Beta	University of North Carolina	Chapel Hill, N. C.
Theta	Ohio Wesleyan University	Delaware, Ohio
Iota	Hanover College	Hanover, Ind.
Xi	Knox College	Galesburg, Ill.
Omicron	University of Virginia	Charlottesville, Va.
Phi Alpha	Davidson College	Davidson, N. C.
Psi	Bethany College	Bethany, W. Va.
Chi	Beloit College	Beloit, Wis.
Alpha Beta	University of Iowa	Iowa City, Ia.
Alpha Gamma	Wittenberg College	Springfield, Ohio
Alpha Delta	Westminster College	Fulton, Mo.
Lambda Rho	University of Chicago	Chicago, Ill.
Alpha Eta	Denison University	Granville, Ohio
Alpha Iota	Washington University	St. Louis, Mo.
Alpha Nu	University of Kansas	Lawrence, Kan.
Alpha Pi	University of Wisconsin	Madison, Wis.
Rho	Northwestern University	Evanston, Ill.
Alpha Sigma	Dickinson College	Carlisle, Pa.
Alpha Chi	Johns Hopkins University	Baltimore, Md.
Omega	University of California	Berkeley, Cal.
Beta Alpha	Kenyon College	Gambier, Ohio
Beta Gamma	Rutgers College	New Brunswick, N. J.
Beta Delta	Cornell University	Ithaca, N. Y.
Sigma	Stevens Institute of Technology	Hoboken, N. J.
Beta Zeta	St. Lawrence University	Canton, N. Y.
Beta Eta	University of Maine	Orono, Me.
Phi	University of Pennsylvania	Philadelphia, Pa.
Beta Theta	Colgate University	Hamilton, N. Y.
Nu	Union University	Schenectady, N. Y.
Alpha Alpha	Columbia University	New York City
Beta Iota	Amherst College	Amherst, Mass.
Beta Lambda	Vanderbilt University	Nashville, Tenn.
Beta Omicron	University of Texas	Austin, Tex.
Theta Delta	Ohio State University	Columbus, Ohio

Alpha Tau	University of Nebraska	Lincoln, Neb.
Alpha Upsilon	Pennsylvania State College	State College, Pa.
Alpha Zeta	University of Denver	Denver, Col.
Beta Epsilon	Syracuse University	Syracuse, N. Y.
Alpha Omega	Dartmouth College	Hanover, N. H.
Beta Pi	University of Minnesota	Minneapolis, Minn.
Mu Epsilon	Wesleyan University	Middletown, Conn.
Beta Nu	University of Cincinnati	Cincinnati, Ohio
Zeta Phi	University of Missouri	Columbia, Mo.
Beta Chi	Lehigh University	S. Bethlehem, Pa.
Phi Chi	Yale University	New Haven, Conn.
Lambda Sigma	Leland Stanford Jr. University	Stanford University, Cal.
Beta Psi	University of West Virginia	Morgantown, W. Va.
Beta Tau	University of Colorado	Boulder, Col.
Beta Sigma	Bowdoin College	Brunswick, Me.
Beta Omega	Washington State University	Seattle, Wash.
Sigma Rho	University of Illinois	Champaign, Ill.
Beta Mu	Purdue University	Lafayette, Ind.
Lambda Kappa	Case School of Applied Science	Cleveland, Ohio
Tau Sigma	Iowa State College	Ames, Ia.
Theta Zeta	University of Toronto	Toronto, Ont.
Gamma Phi	University of Oklahoma	Norman, Okla.
Beta Theta	Colorado School of Mines	Golden, Col.
Beta Xi	Tulane University	New Orleans, La.
Beta Rho	University of Oregon	Eugene, Ore.
Gamma Alpha	University of South Dakota	Vermilion, S. D.
Beta Upsilon	Massachusetts Institute of Technology	Cambridge, Mass.
Gamma Beta	University of Utah	Salt Lake City, Utah
Zeta	Williams College	Williamstown, Mass.
Gamma Gamma	University of Idaho	Moscow, Idaho
Gamma Delta	Colorado College	Colorado Springs, Col.
Gamma Epsilon	Kansas State University	Manhattan, Kan.
Gamma Zeta	Whitman College	Walla Walla, Wash.
Gamma Eta	Georgia School of Technology	Atlanta, Georgia

Beta Theta Pi

Beta Upsilon Chapter — Established 1913

FRATRES IN FACULTATE

Robert Paine Bigelow — Edward Everett Bugbee

FRATRES

1918

David Meconkey McFarland — William Patrick Ryan

1919

John Sharples Coldwell
Francis James Coyne
Guy Hammett Davis
Horace Webster Denison
Adolf Lancken Müller
Charles Jewett Parsons
Joseph Hicks Tooley
George Henry Wiswall, Jr.

1920

Count Brooke Capps
George Roger Knight
Hubert Kolle Krantz
Aloysius James Messmer
John Trevor Peirce
Robert Ludwig Sjöström
Philip Bickner Somerby

1921

Oliver Louis Bardes
Schuyler Hazard, Jr.
Dana Charles Huntington
Chesterton Stevens Knight
Lewis Wooden Moss
Miles Miller Zoller

179 Bay State Road, Boston



Kappa Sigma

Founded in 1869 at the University of Virginia, Charlottesville, Va.

CHAPTER ROLL

District I		
Psi	University of Maine	Orono, Me.
Alpha Lambda	University of Vermont	Burlington, Vt.
Alpha Rho	Bowdoin College	Brunswick, Me.
Beta Alpha	Brown University	Providence, R. I.
Beta Kappa	New Hampshire State College	Durham, N. H.
Gamma Delta	Massachusetts Agricultural College	Amherst, Mass.
Gamma Epsilon	Dartmouth College	Hanover, N. H.
Gamma Eta	Harvard University	Cambridge, Mass.
Gamma Pi	Massachusetts Institute of Technology	Cambridge, Mass.
District II		
Pi	Swarthmore College	Swarthmore, Pa.
Alpha Epsilon	University of Pennsylvania	Philadelphia, Pa.
Alpha Kappa	Cornell University	Ithaca, N. Y.
Beta Iota	Lehigh University	South Bethlehem, Pa.
Gamma Zeta	New York University	New York City
Gamma Iota	Syracuse University	Syracuse, N. Y.
District III		
Alpha Delta	Pennsylvania State College	State College, Pa.
Alpha Phi	Bucknell University	Lewisburg, Pa.
Beta Delta	Washington and Jefferson College	Washington, Pa.
Beta Pi	Dickinson College	Carlisle, Pa.
District IV		
Zeta	University of Virginia	Charlottesville, Va.
Eta	Randolph-Macon College	Ashland, Va.
Mu	Washington and Lee University	Lexington, Va.
Nu	William and Mary College	Williamsburg, Va.
Upsilon	Hampden-Sidney College	Hampden-Sidney, Va.
Alpha Alpha	University of Maryland	Baltimore, Md.
Alpha Eta	George Washington University	Washington, D. C.
Beta Beta	Richmond College	Richmond, Va.
District V		
Delta	Davidson College	Davidson, N. C.
Eta Prime	Trinity College	Durham, N. C.
Alpha Mu	University of North Carolina	Chapel Hill, N. C.
Alpha Nu	Wofford College	Spartansburg, Pa.
Beta Upsilon	North Carolina Agricultural and Mechanical College	West Raleigh, N. C.
District VI		
Beta	University of Alabama	Tuscaloosa, Ala.
Alpha Beta	Mercer University	Macon, Ga.
Alpha Tau	Georgia Technical College	Atlanta, Ga.
Beta Eta	Alabama Polytechnic Institute	Auburn, Ala.
Beta Lambda	University of Georgia	Athens, Ga.
District VII		
Gamma	Louisiana State University	Baton Rouge, La.
Sigma	Tulane University	New Orleans, La.
Alpha Upsilon	Millsaps College	Jackson, Miss.
District VIII		
Theta	Cumberland University	Lebanon, Tenn.
Kappa	Vanderbilt University	Nashville, Tenn.
Lambda	University of Tennessee	Knoxville, Tenn.
Phi	Southwestern Presbyterian University	Clarksville, Tenn.
Omega	University of the South	Sewanee, Tenn.
Beta Nu	University of Kentucky	Lexington, Ky.

	District IX	
Alpha Sigma	Ohio State University	Columbus, Ohio
Beta Phi	Case School of Applied Science	Cleveland, Ohio
Gamma Xi	Denison University	Granville, Ohio
	District X	
Chi	Purdue University	Lafayette, Ind.
Alpha Gamma	University of Illinois	Champaign, Ill.
Alpha Zeta	University of Michigan	Ann Arbor, Mich.
Alpha Pi	Wabash College	Crawfordsville, Ind.
Alpha Chi	Lake Forest University	Lake Forest, Ill.
Beta Epsilon	University of Wisconsin	Madison, Wis.
Beta Theta	University of Indiana	Bloomington, Ind.
Gamma Beta	University of Chicago	Chicago, Ill.
	District XI	
Alpha Psi	University of Nebraska	Lincoln, Neb.
Beta Mu	University of Minnesota	Minneapolis, Minn.
Beta Rho	University of Iowa	Iowa City, Ia.
Gamma Lambda	Iowa State College	Ames, Ia.
	District XII	
Alpha Omega	William Jewell College	Liberty, Mo.
Beta Gamma	University of Missouri	Columbia, Mo.
Beta Sigma	Washington University	St. Louis, Mo.
Beta Tau	Baker University	Baldwin, Kan.
Beta Chi	Missouri School of Mines	Rolla, Mo.
Gamma Nu	Washburn College	Topeka, Kan.
Gamma Omicron	University of Kansas	Lawrence, Kan.
	District XIII	
Xi	University of Arkansas	Fayetteville, Ark.
Gamma Kappa	University of Oklahoma	Norman, Okla.
	District XIV	
Iota	Southwestern University	Georgetown, Tex.
Tau	University of Texas	Austin, Tex.
	District XV	
Beta Omicron	University of Denver	University Park, Col.
Beta Omega	Colorado College	Colorado Springs, Col.
Gamma Gamma	Colorado School of Mines	Golden, Col.
Gamma Rho	University of Arizona	Tucson, Ariz.
	District XVI	
Beta Zeta	Leland Stanford Jr. University	Stanford University, Cal.
Beta Xi	University of California	Berkeley, Cal.
	District XVII	
Beta Psi	University of Washington	Seattle, Wash.
Gamma Alpha	University of Oregon	Eugene, Ore.
Gamma Theta	University of Idaho	Moscow, Ida.
Gamma Mu	Washington State College	Pullman, Wash.
Gamma Sigma	Oregon Agricultural College	Corvallis, Ore.
Gamma Tau	University of Colorado	Boulder, Col.

Kappa Sigma

Gamma Pi Chapter — Established 1914

FRATRES

1918

Julian Miles Avery
George Selden Brewer
Lawrence Hugo Flett
Giles Daniel Hulseman
Alan Baldwin Miller
John Langdon Parsons

1919

Will Warren Boyer
Walter Turnbull Hall
Herman Alfred Herzog

1920

Elmer Lawrence Wesley Barry
Lawrence Oliphant Buckner
Robert Lawrence Burchell
Warren Louis Cofren
William Harrington Schimmelpfennig
John Henry Coyle
Clifford Kyler Rathbone
Edson Irwin Schock

1921

Willard Alvah Case
Richard Munro Kasch
Howard Francis MacMillin

512 Commonwealth Avenue, Boston

THE INTER-FRATERNITY COUNCIL

OFFICERS

FIRST TERM

President
Philip Moss Dinkins

Vice-President
James Ward Reis, Jr.

Secretary
Marshall Coulter Balfour

Treasurer
Frederick Gorham Clark Smith, Jr.

EXECUTIVE COMMITTEE
Joseph Henry Stagg, Jr.
Robert Hawley Wells
Earl Preston Collins

SECOND TERM

President
John Albert Williams

Vice-President
Eugene Ralph Smoley

Secretary
Waldo Bishop Clark

Treasurer
Everett Fitz Doten

EXECUTIVE COMMITTEE
Norris Greenleaf Abbott, Jr.
James Ward Reis, Jr.
Georgius Young Cannon

MEMBERS

Sigma Chi
Theta Xi
Chi Phi
Delta Kappa Epsilon
Phi Beta Epsilon
Delta Upsilon
Sigma Alpha Epsilon
Delta Tau Delta
Phi Gamma Delta
Phi Sigma Kappa
Theta Chi
Phi Kappa Sigma
Alpha Tau Omega
Theta Delta Chi
Lambda Phi
Lambda Chi Alpha
Beta Theta Pi
Kappa Sigma

OTHER FRATERNITIES REPRESENTED AT M.I.T.

Alpha Delta Phi	John Fuller Austin, Jr.	Trinity College
	Howard Berridge Tuthill	University of Wisconsin
Alpha Sigma Phi	Donald Butler Kimball	Cornell University
Alpha Tau Omega	Alexander Winton Caird	Worcester Polytechnic Inst.
	James Hayes	Washington and Jefferson College
Beta Theta Pi	Elbert Hyatt Bancker	Williams College
	Oswald Elmer Cooper	University of Virginia
	Hobart Oakes Davidson	Colgate University
	Elliott Dean Harrington	Beloit College
	Frederick Lawther Peart	University of Pennsylvania
	Marvin Pierce	Miami University
	William Wyer	Yale University
	John Duhme Wimmer	Miami University
Delta Kappa Epsilon	Harold Luther Smith	University of Rochester
Delta Kappa Phi	Adelard Joseph Fortin	Lowell Textile School
Delta Phi	James Stewart Parsons	Union College
	Raymond Sweetlove Perry	Union College
Delta Psi	Herbert Kenneth Fairbanks	University of Vermont
	Albert Eccles Hamilton	Colgate University
	Lawrence Eugene Harmon, Jr.	Union College
Kappa Alpha	Harry Peyton Field	Hampden-Sidney
Lambda Chi Alpha	Richard Sigfrid Holmgren	Massachusetts Agricultural College
	Ray Powers	Worcester Polytechnic Inst.
Omega Alpha	Eugene Reynolds Manning	Delaware State College
Phi Delta Theta	Walter Enos Church	University of Oregon
	William Clarence Colley	Vanderbilt University
	Ernest Palmer Giles	University of Texas
	Harold Raymond Kepner	Ohio Wesleyan University
	Roswell Augustus Merritt	Mercer University
	Paul Francis Swasey	University of Vermont
	Philip Leonard Rhodes	Denison University
	Donald Charles Stockbarger	Northwestern University
Phi Epsilon Pi	Harry Leon Katz	Tufts College
Phi Gamma Delta	Charles Ellsworth Brown	William Jewell College
	Craig Potter Hazelet	University of Washington
Psi Upsilon	John Howe Chase	University of Rochester
	Carlisle Chandler McIvor	Trinity College
	John Stevens	University of Wisconsin
Sigma Alpha Epsilon	William Henry Vogt	Beloit College
Sigma Alpha Mu	William Norman Barron	Mass. Inst. Technology
	Bernard Simpson Cohen	Mass. Inst. Technology
	Edgar Nathan Goldstine	Mass. Inst. Technology
	George Kahn	Mass. Inst. Technology
	David Nathan Rubin	Mass. Inst. Technology
	Harry Stiller	Mass. Inst. Technology
	Lester Wolfe	Mass. Inst. Technology
Sigma Chi	Herbert Parker	Leland Stanford Junior University
Sigma Nu	Ernest Cuthbert Lowell	Colgate University
	John Howard Tipton	Georgia School of Technology
	Theodore Paul Wright	Lombard College
Theta Chi	Stanley Bryant Bragdon	Worcester Polytechnic Inst.
	Raymond Newcomb	Worcester Polytechnic Inst.
Zeta Psi	Willoughby Devin Gundry	University of Virginia



HONORARY SOCIETIES

Osiris



Henry Smith Pritchett
Alfred Edgar Burton
James Phinney Munroe
Isaac White Litchfield
Arthur Amos Noyes
Francis Russell Hart
Richard Cockburn Maclaurin
Davis Rich Dewey
George Wigglesworth
Everett Morss
Howard Lincoln Coburn
Albert Farwell Bemis
Frank Harrison Briggs
Horace Sayford Ford
Henry Greenleaf Pearson

Oliver Donn Burton
Percy Wolcott Carr
Robert Thach Collier
John Warren Damon
Philip Moss Dinkins
William Eastman, Jr.
Julian Cheever Howe

George Bradfield Hutchings, Jr.
Marvin Pierce
Alfred Newell Pray
Kenneth Reid
William Patrick Ryan
Robert Woods Van Kirk, Jr.
Richard Alfred Wilkins

William Wyer

The Beaver



1918

Nelson Arthur Bond
George Donald Bradley
Oliver Donn Burton
Samuel Vance Chamberlain
John Wheeler Clarkson
Philip Moss Dinkins
Saxton Woodbury Fletcher
Lawrence Hugo Flett
William Chapman Foster
Gardner Seabury Gould
Irving Gilmore Hall, Jr.
George Bradfield Hutchings, Jr.
Chester Lyman Kingsbury
Julian Tobey Leonard
Otto Carl Lorenz
Edward Adams Mead
Edwin Meade Newton
Donald Berthold Parkinson
Kenneth Reid
Kenyon Roper
Ralph Sargent
Maynard Long Smith
Brainerd Alden Thresher
Edward Nicholas Winslow
Louis Franklin van Zelm

1919

Edward Clifford Anderson
Marshall Coulter Balfour
Malcolm Cotton Brown
Oswald Cammann, Jr.
Edward Francis Deacon
George Franklin French
James Wallace Gibson
Arthur Ernest Griffin
Norwood Paxton Johnston
Howard Hale McClintic, Jr.
Charles Barney Maloy
David Oscar Mayer
Arthur Ellsworth Page
William Pinkney, Jr.
James Ward Reis, Jr.
John Laurence Riegel
David Curtis Sanford, Jr.
Edwin Chester Shultz
James Gordon Strobridge
Donald Dickinson Way
Robert Hawley Wells
Kenneth Andrews Wright

1920

Prentice Durfey Ash
John Clement Barker
George Bliss
Theodore William Bossert
Malcolm Sturtevant Burroughs
George Henry Burt
Archie Prentiss Cochran
Norman Putnam Dana
David Lewis Fiske
John William Kellar
Weir Orford Merryweather
John Crandon Nash
Edwin Delamater Ryer
Carleton Hart Talcott

Masque



William Cary Duncan
William Howard

Percy Marks

Minor Millikin Beckett
George Donald Bradley
Alexander Winton Caird
Bernard Simpson Cohen
John Sharples Coldwell
Robert Thach Collier
Earl Preston Collins
Guy Hammett Davis

Robert E. Rogers

Horace Webster Denison
Elliott Dean Harrington
George Bradfield Hutchings, Jr.
Norwood Paxton Johnston
David Oscar Mayer
Charles Jewett Parsons
Frederick Arthur Washburn
Robert Hawley Wells

Pi Delta Epsilon

Gamma Chapter



Arlo Bates
Isaac White Litchfield
Henry Greenleaf Pearson
Archer Tyler Robinson
George Whitcomb Wyman

George Selden Brewer
Malcolm Alfred Lancelot Eales
Saxton Woodbury Fletcher
George Michael Macheca

Walter Raymond McKenney
Kenneth Reid
Brainerd Alden Thresher
Donald Dickinson Way

K_2S

ACTIVE

Julian Miles Avery
Percy Wolcott Carr
George Olof Ekwall
William Penn Fisher, Jr.
Lawrence Hugo Flett
Maurice Elmer Goodridge
Walter Turnbull Hall
George Clyde McCarten
David Meconkey McFarland
Alan Girard Richards
Eugene Ralph Smoley
Robert Woods Van Kirk, Jr.
John Stevens
Richard Alfred Wilkins

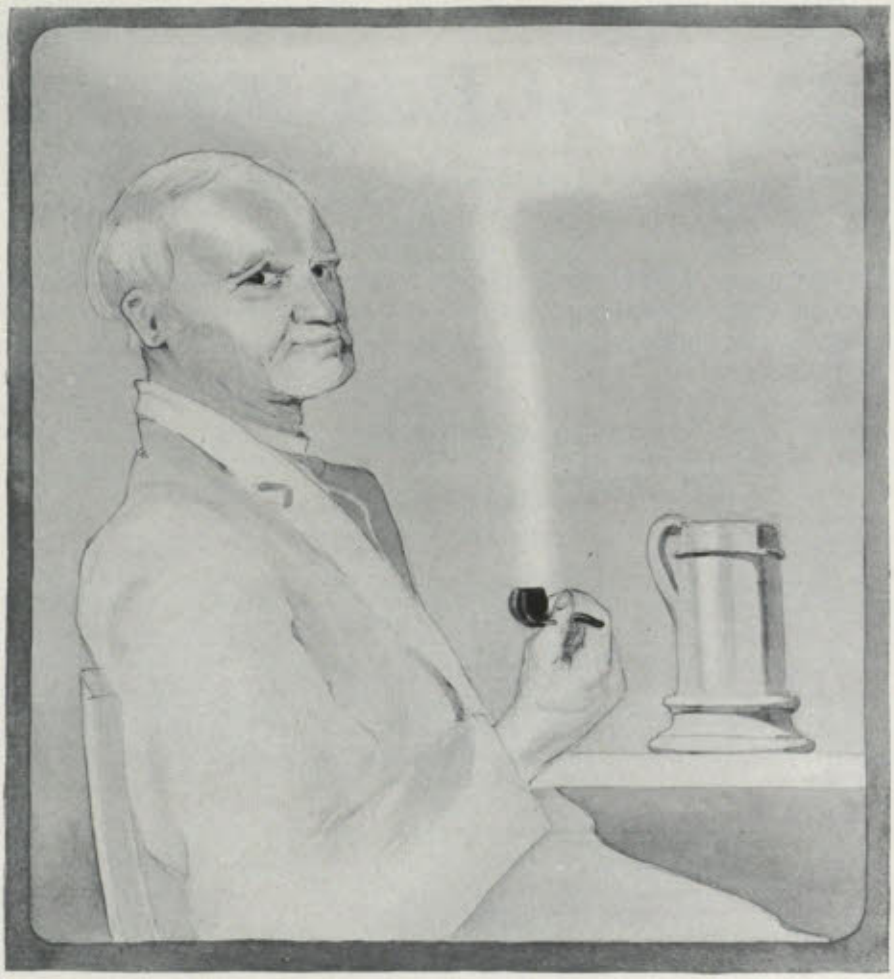
ASSOCIATE

Arthur A. Blanchard
Richardson G. Knowland
John F. Norton
Arthur A. Noyes
Miles S. Sherrill
Willis R. Whitney
Robert S. Williams

HONORARY

Richard C. Maclaurin
Edward E. Bugbee
Charles R. Cross
Henry Fay
Augustus H. Gill
Selskar M. Gunn
William T. Hall
Heinrich O. Hofman
Frederick R. Kneeland
Warren K. Lewis
Arthur D. Little
Charles E. Locke
Richard H. Lodge
F. Jewett Moore
Samuel P. Mulliken
James F. Norris
Samuel C. Prescott
Henry S. Pritchett
Robert H. Richards
William T. Sedgwick
Henry P. Talbot
Frank H. Thorpe
William H. Walker
Charles H. Warren


"Eile mit Weile"
K2S



CLVBS

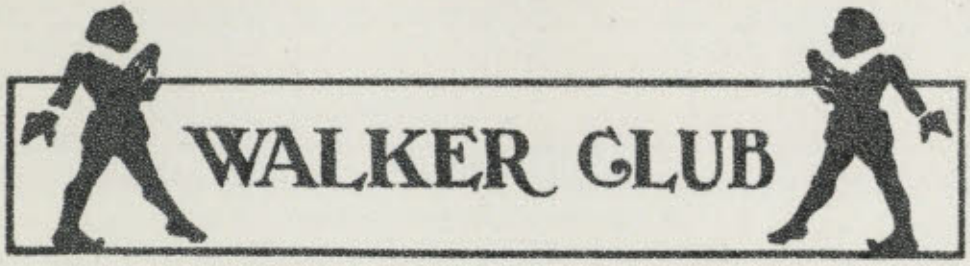
Vectors

THE purpose of this Society shall be to bring together more intimately those men whose interests are not limited to the technical aspects of Electrical Engineering and to develop those interests.

President
Frederick Arthur Washburn

Secretary-Treasurer
John Howard Tipton

Arthur Albert Church
Samuel Philip Crotwell, Jr.
Paul Fenno Dudley
Malcolm Alfred Lancelot Eales
James Carl Fisher
William Chapman Foster
Giles Daniel Hulseman
Edward Norton Little
Carlisle Chandler McIvor
John Howard Tipton
Albert Edward Tuttle
Frederick Arthur Washburn
Paul Pickering Wrigley



OFFICERS

President
Charles Jewett Parsons

Secretary-Treasurer
Donald Dickinson Way

MEMBERS

Honorary

Professor Davis R. Dewey
Mr. Isaac W. Litchfield
Colonel Thomas L. Livermore
Dr. Richard C. Maclaurin
Mr. James P. Munroe

Faculty

Professor Frank Aydelotte
Professor Alfred E. Burton
Professor Carroll W. Doten
Professor Edward F. Miller
Professor Samuel P. Mulliken
Professor Arthur A. Noyes
Professor Henry G. Pearson
Professor Robert E. Rogers
Professor Henry L. Seaver
Professor Harrison W. Smith
Professor John O. Sumner
Professor Frank Vogel
Professor Robert S. Williams

Instructing Staff

Mr. Frederick R. Kneeland
Mr. Percy Marks
Mr. F. Hastings Smyth
Mr. Clarence H. Sutherland

Administrative Officer

Mr. Horace S. Ford

Undergraduate Membership

William Howard Banks, Jr.
Warren Louis Cofren
John Sharples Coldwell
Guy Hammett Davis
Julian Cheever Howe
Howard Hale McClintic, Jr.
Adolf Lancken Müller
Charles Jewett Parsons
Paul Desnoyers Peltier
Kenneth Reid
James Ward Reis, Jr.
John Laurence Riegel
Wingate Rollins
David Curtis Sanford, Jr.
Edwin Chester Shultz
Carleton Hart Talcott
Donald Dickinson Way
Richard Alfred Wilkins

Theta Tau

A National Engineering Fraternity

Founded 1904

CHAPTER ROLL

Alpha	University of Minnesota	Minneapolis, Minn.
Beta	Michigan School of Mines	Houghton, Mich.
Gamma	Colorado School of Mines	Golden, Col.
Delta	Case School of Applied Science	Cleveland, Ohio.
Epsilon	University of California	Berkeley, Cal.
Zeta	University of Kansas	Lawrence, Kan.
Eta	Massachusetts Institute of Technology	Cambridge, Mass.
Theta	Columbia University	New York, N. Y.
Iota	Missouri School of Mines	Rolla, Mo.
Kappa	University of Illinois	Champaign, Ill.

Eta Chapter — Established 1912

FRATRES

1918

Wendell Howard Kayser

1919

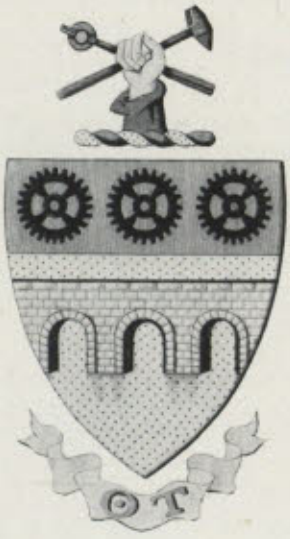
William Howard Banks, Jr.
Frederick Waldo Barney
Myron Harrison Clark
John Sharples Coldwell
Horace Webster Denison
Everett Fitz Doten
Charles Wayland Drew, Jr.
Robert Prescott Hackett
Amos Neal Prescott
Edwin Chester Shultz
Donald Dickinson Way

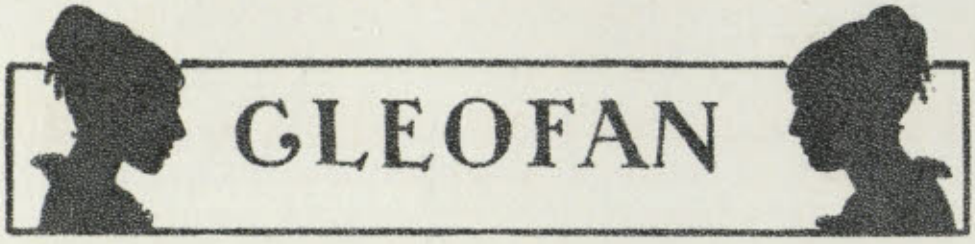
1920

Norris Greenleaf Abbott, Jr.
Kenneth Fellows Akers
Robert Patterson

1921

Frank Dana Gage





OFFICERS

President
Elizabeth Mary Fennessey

Vice-President
Elizabeth Coit

Secretary
Céleste Johnson Brennan

Treasurer
Dorothea DeWolfe Brownell

MEMBERS

1918

Elizabeth Mary Fennessey
Gretchen Abigail Palmer
Sibyl Walker

1919

Céleste Johnson Brennan
Elizabeth Coit
Boudy Lemp
Clara Poppic

1920

Dorothea DeWolfe Brownell
Florence Fogler
Grace Catherine Montrose
Anne Ruth Rosenthal

1921

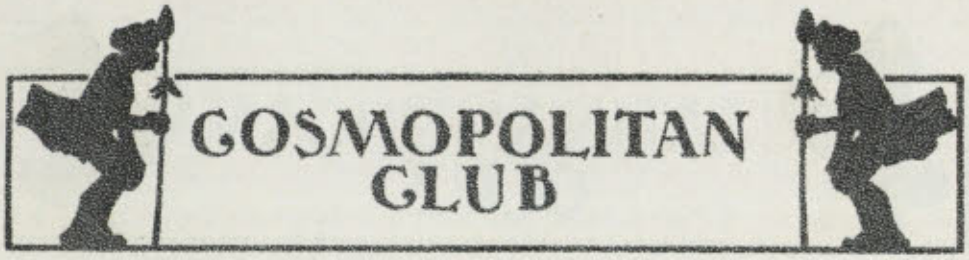
Cornelia Marie Nelson

SPECIAL

Mary Almy
Ethel Benedict
Helen Byron Colson
Loretta Mildred Dakin
Annie Pierce Hale
Margaret Pearson
Alice Ruth Ractliffe
Minna Mary Rohn
Ellen Elizabeth Williams

RESEARCH ASSISTANT

Amy Walker



OFFICERS

President
Nemesio Faustino Alvaré

First Vice-President
Albert Victor Dumas

Second Vice-President
Kuang Piao Hu

Secretary
Theodore Shedlovsky

Treasurer
Henry Albert Miner

MEMBERS

Honorary

Dr. Richard Cockburn Maclaurin

Faculty

Floyd E. Armstrong
Alfred E. Burton
Daniel P. Comstock
Carroll W. Doten
Walter Humphreys
Joseph Lipka
John Ritchie, Jr.
Archer T. Robinson
Henry L. Seaver
Frank Vogel

Active Members

Alberto A. Acosta
Julian M. Avery
Heliodoro Ayala, S.
Ernest G. Bangratz
Leo E. Beaulieu
George A. Beeche
Jean E. Bélique
Hernan Besa-Montt
Erik G. Bildsoe
Frederick W. Boley
George D. Bradley
Chung-yang Chen
Lee T. Chen
Y. T. Cheng
Wei Y. Chiu
Ming Chow
Ki K. Chun
Kendrick P. Coachman
Bernard S. Cohen
Alberto Costa
Alfredo C. Dandt
Jorge V. Davila
Herman Dedichen
José A. Del Aguila
Adolph Denbin
Moacyr R. Dias
Eric W. Drury
Oscar Duyos
Rodolfo L. Fonseca
Y. P. Foo
R. Garza
Philip J. Gelt
Gabriel G. Gelt
Eduardo Germain, Jr.
Arthur J. Giuranovitch, Jr.
George Halkiopulos
Chuan Y. Hsu
Yun C. Hsu
Cho P. Hsueh
Kwei L. Hsueh
Kuang P. Hu
Chi Y. Huang
Shon H. Huang
Shao Y. Hung
Odd Juel
Elias S. Karnig
M. Kaust
Bedros Kemkemian
Herman S. Kiaer
Rolf Knudsen
Sung S. Kwan
Pierre F. Lavedan
Frank Lazo
Kuangtao T. Lee
Sam Lee
Wee K. Lee
Ying P. Lee
Yuan Lee
Joakim Lehmkuhl
Nai H. Leung
Kuo C. Li
Gee C. Liu
Hsi Y. Liu
Francisco Lobos
James E. Longley
William R. MacKay
Waldemar S. McGuire
Dan M. McNeil
John J. McNeil
Sarkis M. Madancy
Constantine C. Manny
Lauro Martinez
Marcial E. Martinez
I. Masaki
En C. Miao
Rodolfo J. Migone
Yoshihiko Mito
Edward H. Moffatt
Victor Möller, B.
Henry R. Monasterio
Navarro S. Moreira
King C. Mui
Uhachi Nabeshima
Seizo Nakaye
Philip A. Nelles, Jr.
Felix L. Omelich
Kenichi Onishi
José A. Padilla
Chen C. Pan
Francesco Pastorino
Jorge Peña-Polo
José G. Piza
William H. Preston
Teodorico Quiros
Robert E. Robillard
George Rojas
Victor Ruiz
Alan B. Sanger
Eduardo E. Sarti
Sukesaku Sawamura
Leonard A. Schwartz
Steve J. Seampos
Masakazu Shiozawa
Tse S. Sih
Victor Stevenson
William O. Stevenson
Carlos A. Stöwhas
Peter M. Strang
Y. Takagi
Naoichiro Takashima
Chen Tan
Masayuki Tatsuno
Wilfred M. Thomson
Thomas B. Thrige, Jr.
Yu C. Tu
Seiichi Uchida
Viviano L. Valdes
Manuel S. Vallarta
Ernst F. D. von Voss
Han C. Wang
Douglas Weatherston, Jr.
Tsen F. Wei
Wing L. Wei
Abraham J. Williams
Louis Wolff
Zeng T. Wong
Francis O. Wyse
Char F. Yau
P. Yaug
Tek C. Yeh
Yu L. Yeh
Alfredo de Zubiria, S.

Associate Members

John Orth
Arthur G. Cushman

LATIN-AMERICAN CLUB



N. Alvaré Rojas G. J. Gelt Moller Alvarez Duyos V. Stevenson Pasos-Diaz
Stöwhas Beeche Besa-Montt Germain Padilla Del Aguila P. J. Gelt
Noriega Fonseca Lana Lobos Ayala M. E. Martínez Moreira
G. O. Stevenson Peña-Polo Dias Acosta

OFFICERS

President
Francisco Lobos

Vice-President
Alfredo de Zubiria S.

Secretary
Rodolfo Fonseca

Treasurer
Marcial Ernesto Martínez V.

Latin-American Club

THE Latin-American Club was established during the fall of 1916 by a group of students from the Spanish-speaking countries and from Brazil for the purpose of developing more friendly relations among themselves, and of fostering a better understanding and more intimate relationship between all the nations of America. To attain this end the club holds frequent meetings and social functions for its members and their friends, and has established the custom of entertaining representative undergraduate students of Technology at a banquet or dance during the school year. It has given publicity to the work of the Institute in the Latin-American countries, and it is one of its aims to encourage the formation of Technology clubs in those Latin countries where the number of Technology alumni may warrant it. Its purpose is also to study the political, social, and industrial institutions of the United States.

With the forty odd students that South and Central America send to Technology every year, the club promises to perpetuate itself and to carry on its organization for the good of its members and the ultimate benefit of Pan-Americanism.

MEMBERS

Alberto Aurelio Acosta
Artídoro del Aguila
Nemesio Faustino Alvaré
S. Heliodoro Ayala
Julio Bascuñan
Jorge Augusto Beeche
Hernan Besa-Montt
Alfredo Correa Daudt
Jorge Victor Davila
Monacyr Rodriguez Dias
Oscar Duyos
Rodolfo Fonseca
Roberto Garza
Gabriel Jorge Gelt
Philip Jesus Gelt
Eduardo Germain, Jr.
Casimiro Lana
Juan Bautista Lariviere
Francisco Lobos
José Felix Martinez
Lauro Martinez C.
Marcial Ernesto Martínez V.
Victor Moller B.
Salvador Moreira Navarro
Juan Noriega
José Augusto Padilla
José Pasos-Dias
Jorge Peña-Polo
José Geigel Piza
Teodorico Quiroz
Enrique Rivero M.
Jorge Rojas
Federico Guillermo Sanchez
Eduardo Emilio Sarti
Victor Enrique Stevenson
Guillermo Orick Stevenson
Carlos Alberto Stŏwhas
Viviano Valdes L.
Abraham José Williams
Alfredo de Zubiria S.

CHINESE CLUB

OFFICERS

President
Yu Ching Tu

Vice-President
Tek Chen Yeh

Treasurer
Chung Yang Chen

Chinese Secretary
Tse Sing Sih

English Secretary
Tsen Fu Wei

ACTIVE MEMBERS

GRADUATES

Charles Hsi Chiang
Ming Chow
Cho-Ping Hsueh
Wing Lock Wei
Kwei Lun Hsueh
Shou Heng Huang
Nai Hang Leung
Homer Chuen-cheng Ling
Chen Tan
Yu Ching Tu
Yu Liang Yeh

1918

Chung Yang Chen
Wei Yu Chiu
Chuen Yuen Hsü
Yun Chung Hsü
Sung Sing Kwan
Gee Call Liu
Ching Li Wu
En Chao Miao
Tse Sing Sih
Zeng Tse Wong

1919

Kuang Piao Hu
Chi Yen Huang
Shao Yu Hung
Sik Kei Lau
Hsi Mou Li
Tsu Fan Lee
Tek Chen Yeh
Char Foo Yao
Ping Sze King
Wei Kuo Lee
Chen Chi Pan

1920

Ki Kee Chun
Yuan Lee
William Moy-Ding
King Chiu Mui
Tsen Fu Wei
Ming Hsing Pai
Han Chen Wang

1921

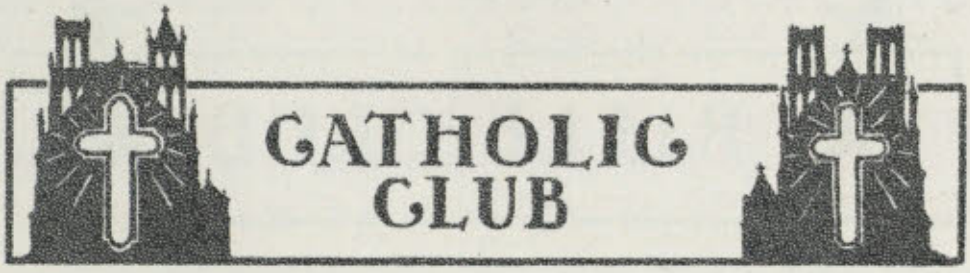
Sam Lee
Hsi Ying Liu
Ying Fen Lee
Kwong K. Tye
Kuo Chow Li

SPECIAL

Lee Ting Chen
Chen Chi Wang

ASSOCIATE

Takang Kao
Aloy Soong
Wei Sung New
Chi Ya Wang
Chen Hsun Yang
Hsien Wu
Frank T. Yeh



OFFICERS

President
Bernard O'Daly

Vice-President
Arthur J. Giuranovitch, Jr.

Secretary
Joseph A. Kelley

Treasurer
Thomas P. Kelly

HONORARY MEMBERS

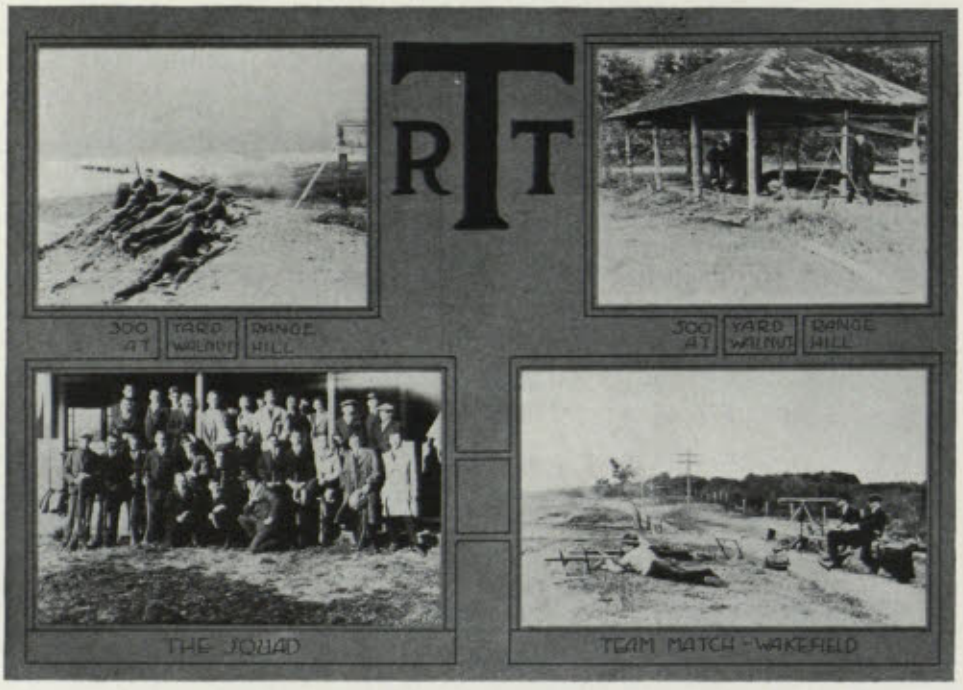
Rev. Joseph N. Donahue
Rev. Joseph Turner
Jeremiah F. O'Neill
Robert J. Wiseman, S.B., Eng.D.

Chaplain
Rev. Mark Driscoll, D.D.

ACTIVE MEMBERS

Clarence L. Arrigoni
Joseph H. Bayle
Thomas V. Brosnahan
Richard F. Cashin, Jr.
Jerome J. Collins
Francis James Coyne
Harold G. Crowley, Jr.
Adolph Denbin
Joseph A. Donovan
William F. Driscoll
John W. Friery
George F. Fynn
Joseph W. Gartland
Arthur J. Giuranovitch, Jr.
Alfred T. Glassett
Heland J. Green
Daniel J. Hennessy
Stephen A. Hoye
Joseph A. Kelley
Thomas P. Kelly
John W. Kilduff
Lawrence J. McCloskey
James F. Maguire
George F. Malley
Charles W. Maloney
Bernard O'Daly
Frank J. O'Neil
Jay H. Quinn
Herbert W. Reinhard
Richard Rimbach
William P. Ryan
George A. Sackett
Henry F. Shea
George A. W. Smith
Cornelius D. Sullivan
George W. Thomas
Douglas Weatherston, Jr.
Alfredo de Zubiria S.

RIFLE CLUB



OFFICERS

President
Thomas Millbury Knowland

Vice-President
Arthur Clark Atwater

Team Captain
George Raynolds Bond, Jr.

Secretary
Dean Kingman Webster, Jr.

Treasurer
James Ward Reis, Jr.

WEARERS OF T CROSSED RIFLES

George Greville Haslam, '15
James Sydney Stewart, '17

WEARERS OF RTT

George Raynolds Bond, Jr., '19
Frank Linton Butterworth, '17
Frank Charles Howard, '17
Arthur Elmer Keating, '17
Theodore Erasmus Stahl, '17
Albert Edward Tuttle, '17

MEMBERS

1918

Edgar Nathan Goldstine
Thomas Millbury Knowland
John Torrey Norton

1919

William Hastings Bassett, Jr.
James Howard Becker
George Raynolds Bond, Jr.
Harold Jack Daube
Richard Sturtevant Everit
Laurence Arnold Gillett
Frank Clark Hoyt
Arthur Sanborn Johnson
Felix Louis Omelich
Benjamin Howland Sherman
Dean Kingman Webster, Jr.

1920

Arthur Clark Atwater
Arthur Henry Blake
Theron Finson Harvey
Carl Alfred Hasslacher
Lauren Blakely Hitchcock
Bruce Mortrom Mills
Harry Montgomery Noelke
John Russell Perkins, Jr.
Alfred William Peterson
Robert Rich Rowe
Francis Weston Sears
Christopher Lucius Tortorelli
Ernest Parker Whitehead
Richard Philip Windisch

1921

Frederick Wildes Adams
Paul Nathaniel Anderson
Eben Hayward Baker
Ethan Allen Beer
John Lloyd Boston
Edwin Reed Clark
Ernest Dewey Clarkson
Frank Harold Coldwell
Harold Greenleaf Crowley
James Lovell Entwistle
Henry Langdon Haltermann
Munroe Chapin Hawes
William Henry Irwin
William Daniel Morrison
Fearing Pratt
Leonard Arthur Schwartz
John MacDuffie Sherman
Richmond Hastings Skinner
Thomas Theodore Stevenson
Lawrence Wellington Trowbridge
Henry Davenport Tucker
Eliot Underhill

MENORAH SOCIETY

"For the study and advancement of Jewish culture and ideals"

OFFICERS

President
Hyman P. Selya

Vice-President
Harry L. Katz

Treasurer
Bernard S. Cohen

Secretary
Joseph Kaufman

Assistant Secretary
Harry Stiller

EXECUTIVE COMMITTEE

Daniel H. Brown

James J. Wolfson

Maurice J. Kaplan

MEMBERS

Graduate
Edgar N. Goldstine

1918

Jacob J. Bolotin

Max Seltzer

Harry L. Katz

1919

Morris Berkowitz
Henty B. Blumberg
Daniel H. Brown
Bernard S. Cohen
Eli Ettlinger
Samuel Heyman
George Kahn
Joseph Kaufman
Gustave Levy
Israel Maizlish
George Michelson
Maurice H. Role
Henry Rommer
Hyman P. Selya
Samuel A. Sherman
Isidor Slotnick
Leon I. Snow
Harry Stiller
Henry Wallenstein
Lester Wolfe

1920

David J. Kaplan
Maurice B. Lieberman
Morris N. Lipp
Joshua Musnitsky
Myer H. Naigles
Myer Saxe
Arthur E. Winebaum
James J. Wolfson

1921

Adolph H. Aronson
Isaac S. Ascher
Julian Cohen
Sidney Featherman
Harold Finkelstein
Julius Gordon
W. V. Hamburger
Morris Hart
Maurice J. Kaplan
Joseph G. Kaufman
Harold L. Levin
Leonard A. Schwartz
Sidney Senger
Abram E. Watov

CHESS CLUB

OFFICERS

President
Alan Bridgman Sanger

Vice-President
William Henry Costelloe

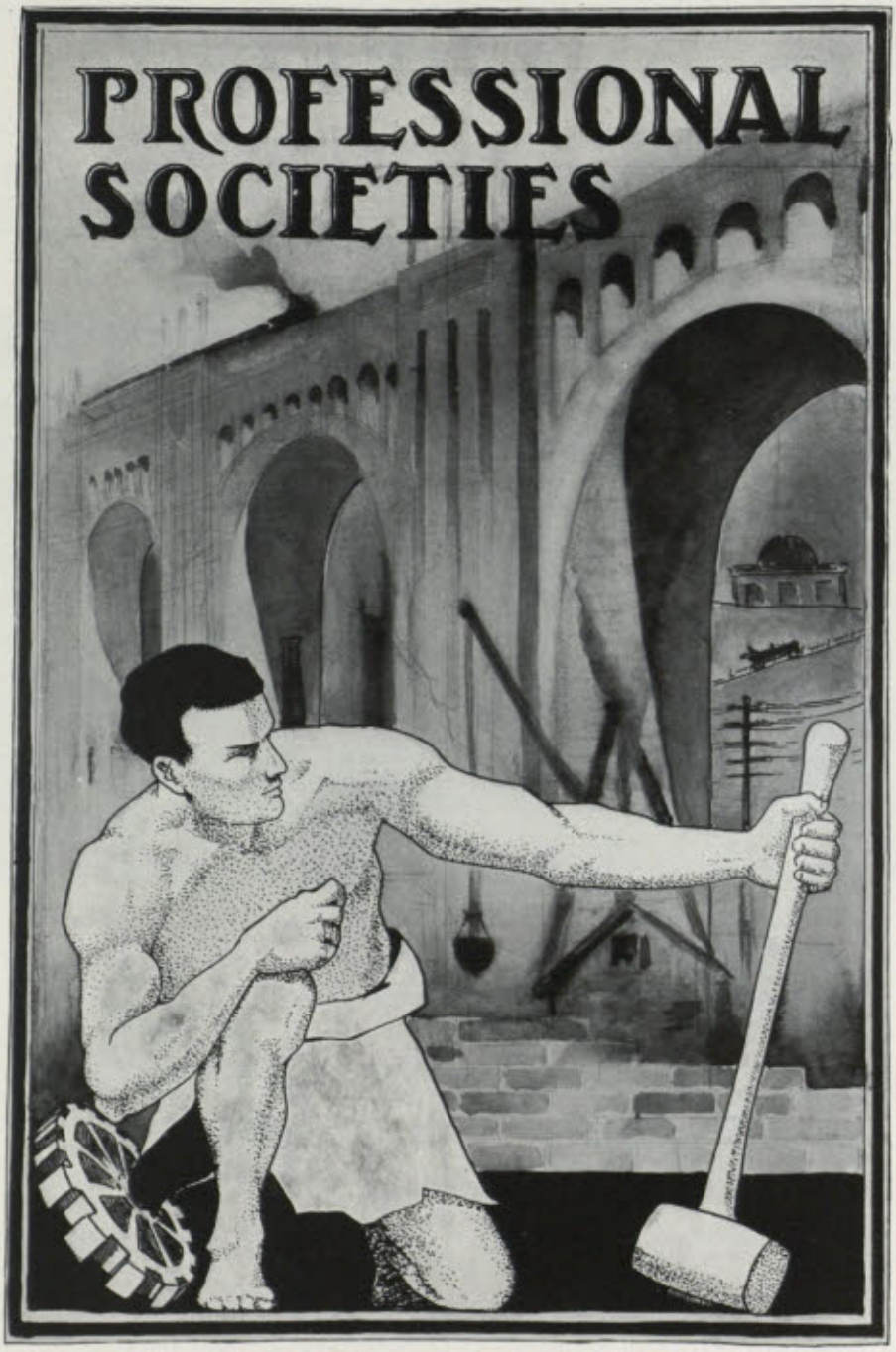
Secretary-Treasurer
Theodore Shedlovsky

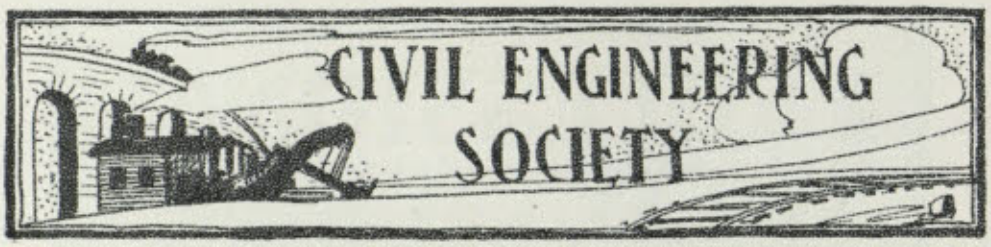
MEMBERS

William Henry Costelloe
Charles John Christian Johansen
Leo David Kahn
Adolf Lancken Müller
George Harrison Richards
Alan Bridgman Sanger
Theodore Shedlovsky

MATCHES, 1917–1918

OPPONENTS		TECHNOLOGY
Harvard	2	2
Dartmouth	1	3
Chess Club	5	0
Bay State	5	0
City Club	2½	1½
Bay State	4	1
City Club	5	0


PROFESSIONAL
SOCIETIES





Westland Longley Pierce Smith Friery

OFFICERS

President
Marvin Pierce

Vice-President
John Wetherell Friery

Secretary
Charles Edward Westland

Treasurer
William Wyer

Assistant Treasurer
Merritt Parker Smith

EXECUTIVE COMMITTEE

Arthur Everett Farrington

James Edward Longley

Raymond Slack Smith

Civil Engineering Society

Continued

MEMBERS

1918

Rudolf Beaver
Abram Boghossion
Ralph Frederick Fleming Brooks
Alexander Winton Caird
Charles Clinton Carpenter
John Howe Chase
Philip Brooks Craighead
Frederic Cooley Eveleth
John Wetherell Friery
Samuel Fuller
William Alfred Jones
Asher Winthrop Joslin
Harry Leon Katz
Harold Dustin Kilgore
Cornelius Van Santvoord Knox
Henry Richard Lacey
Jacob Lichter
Gee Call Liu
James Edward Longley
John Robert Longley
Sherman Albert MacGregory
Sarkis Mardiros Madancy
En Chao Miao
Hall Nichols
Arthur Joseph Giuranovitch
Earl Austin Greenleaf
Albert Haertlein
John Merrill Hanley
Edwin Russell Harrall
Craig Potter Hazelet
Frank Herbert Hopkins
Chuan Yuan Hsuh
Cho Pin Hsuch
Alfin Johnson
Winthrop Eliot Nightingale
Jose Pasos-Diaz
Jorge Pena-Polo
Marvin Pierce
Richard Rimbach
Raphael Robinson Rowe
David Nathan Rubin
Warren Joseph Scott
Raymond Slack Smith
Chen Tan
George Washington Thomas
Clarence Sydney Timanus
Yu Ching Tu
William Wyer

1919

Waldo Bishop Clark
Myles Francis Connors
Monacyr Rodrigues Dias
Herbert Kenneth Fairbanks
John Joseph Falkenberg
Arthur Everett Farrington
Edward Alden Freeman
Austin Rogers Frey
Laurence Arnold Gillett
Carl Sanfrid Helrich
Richard Sigfrid Holmgren
Rogers Bruce Johnson
Scott Keith
Kuangtao Tsufan Lee
Constantine Christo Manny
Oscar Sigfrid Martinson
George William McCreery
John Meader
Eugene Mirabelli
Harold James Murray
Joseph Shipley Newell
Francis Davis Porcher
Walter Carlyle Roberts
Albert Philip Schefer
Tse-sing Sih
Isidor Slotnick
Merritt Parker Smith
Raymond Slack Smith
Harry Stiller
Ralph Ellsworth Tribou
Charles Edward Westland
Henry Stanley Weymouth
Charles Eaton Browning White
Horace Dyball White
Abraham Jose Williams
Henry Everett Wilson

1920

Homer Vernon Howes
Myron Harry Lee
Earle Francis Watts
Ernest Parker Whitehead
Leland David Wilson

MECHANICAL ENGINEERING SOCIETY



Caldwell Kayser Saunders Coleman Hamilton

OFFICERS

Honorary Chairman
Professor Edward F. Miller

Chairman
Albert Saunders

Vice-Chairman
Arthur L. Hamilton

Secretary
Stuart H. Caldwell

Treasurer
Harold W. Fitch

Assistant Treasurer
Wendall H. Kayser

Governing Board
Edwin M. McNally Raymond P. Miller Francis T. Coleman

MEMBERS

FOURTH YEAR

Lawrence J. Allen
Fustinio N. Alvaré
Benjamin D. Ballantine
Challen M. Beattie
Sidney B. Blaisdell
Frank S. Boice
Jacob J. Bolotin
Samuel H. Chamberlain, Jr.
Byron R. Cleveland
Frank H. Copeland
Ralph J. Crosby
Saxton W. Fletcher
James A. Flint
Clarence D. Hanscom
Ottomar G. Hugo
George B. Hutchings, Jr.
Willard E. Imhoff
Thomas P. Kelly
Thomas M. Knowland
Wee K. Lee
Elmer E. Legge
Harry C. LeVine
Leonard I. Levine
Francis L. Long
John W. McCausland
Paul A. McGreenery
Carl P. McLaughlin
George E. McLaughlin
George M. Macheca
Frederick A. Magoun
Ralph G. Mahoney
Elwood M. Manter
Donald G. Merrill
Harold L. Miller
James W. O'Brien
Frank C. Pearson
Joseph K. Pearson
Theodore A. Pierson, Jr.
Edgarton G. Polley
Arthur W. Pope, Jr.
Howard F. Reed
James E. Rowe
John S. Salah
Albert F. Sawyer
Dean S. Sibley
Edward Sidman
Harold V. Sturtevant
Alfred B. Vought
Marcus W. Weiscopf
Ralph L. Whitcomb
Arthur E. Windle
Zeng-Tse Wong
Ira R. Young

THIRD YEAR

Frederick W. Barney
James H. Becker
Morris Berkowitz
Arthur H. Blake
Roderic M. Blood
Henry B. Blumberg
Benjamin H. Bristol
Frederick S. Britton
John S. Carter
Ralph A. Cartwright
Charles A. Chayne
Frederick W. Childs
Francis T. Coleman
Blake Darling
Cutter P. Davis
Everett F. Doten
Arthur R. Ford
George P. Gail
Frederick W. Griebel
Samuel Heyman
George B. Hirsch
James Holt
Charles H. Ilsley
Robert Insley
William J. Leahy
Marshall B. Lee
Milton A. Loucks
Elliot D. May
Robert W. Mitchell
Harold C. Moberg
Karl L. Nutter
William R. Osgood
Sherwood Page
Francesco Pastorino
Edward F. Pierce, Jr.
Edward A. Richardson
Maurice H. Role
Henry Rommer
Laurence D. St. John
Bertram H. Southwick
Frederick C. Spooner
Carl L. Svenson
Charles H. Tavener
William H. Vogt
Eaton Webber
Russell E. Williams
Francis O. Wyse

SECOND YEAR

Norris G. Abbott, Jr.
Carleton E. Alexander
Edward F. Badger
Elmer L. W. Barry
George I. Brown
Laurence H. Burnham
George F. Des Marais
Arthur Esner
Herbert G. Fales
Alfred A. Fraser
Alfred C. Garrigus
Richard H. Gee
Harold L. Goodwin
George N. Green
William R. Handy
Theron F. Harvey
Scott H. Wells
William T. Honiss
Frank W. Lawton
Ernest C. Lowell
Herman J. Marowitz
William Moy-Ding
Henry B. Prescott
Walter A. Sherbrooke
Robert P. Warriner



OFFICERS

President
Robert Murray Blackall

Vice-President
Sumner Kennard Wiley

Secretary
Leon Keach

Treasurer
Louis Armistead Brown, Jr.

Executive Committee

Kenneth Reid
David Curtis Sanford, Jr.
Theodore Paul Wright

MEMBERS

FIFTH YEAR

Robert Murray Blackall
Leon Keach

FOURTH YEAR

Francis Carrol Burke
Georgius Young Cannon
Walter Enos Church
Elizabeth Coit
Eric William Drury
Clarence Meredith Ellis
Robert Titus Gidley
Ernest Palmer Giles
Donald Chapin Goss
Ernest Alton Grunsfeld, Jr.
Henry Wagner Wright
Harold Clarke McLaughlin
Kenneth Reid
Clarence Earl Richards, Jr.
Sumner Kennard Wiley
Royal Barry Wills

THIRD YEAR

Franklin Andrews Birmingham
Louis Armistead Brown, Jr.
Samuel Albert Brunelle
William Clarence Colley
Francis James Coyne
Sung Sing Kwan
Boudy Lemp
Donald Hill Lovejoy
Adolf Lancken Müller
John Richard Rowe
Maximilian Untersee
David Curtis Sanford, Jr.
Eduardo Emilio Sarti
Howard Hall Searles
Arnold Baldwin Staubach
Paul Francis Swasey
Kenneth Fuller Wood

SECOND YEAR

Mary Almy
Dorothea DeWolf Brownell
Eugene Kenneth Clark
Edward Joseph Coughlin
Albert Milham Fredenburgh
Fred Morton Gill
Jeremiah Aloysius Hallaren
Wilford Priest Hooper
Albert Kruse
William Emil Meissner
Teodorico Quiros
Clifford Kyler Rathbone
William Hugh Rowe, Jr.
Robert Ludwig Sjöström
Charles Thomas Wilson
James Jacob Wolfson
Oscar Philip Young
Fred Ernst ZurWelle

FIRST YEAR

Christopher Coleman Carven
Merritt Freeman Farren
Roger Hayward
Carl Augustinus Johnson
Winthrop Earle Luke
Charles Frederick McGill
Esther Marie Cornelia Nelson
Frank Jeremiah O'Neil
Preston Ashley Remington
George Anthony William Smith
Russell Benton Tewksbury
Philip Alphonsus Willis





Bartlett Rhodes Grosscup Wirt

OFFICERS

President
Philip Leonard Rhodes

Vice-President
Harrison Loring Wirt

Secretary-Treasurer
Henry Arthur Grosscup

Faculty
Evers Burtner

MEMBERS

1918

Leo Stanislaus Blodgett
Nino Tesher Catlin
Harrison Loring Wirt

1919

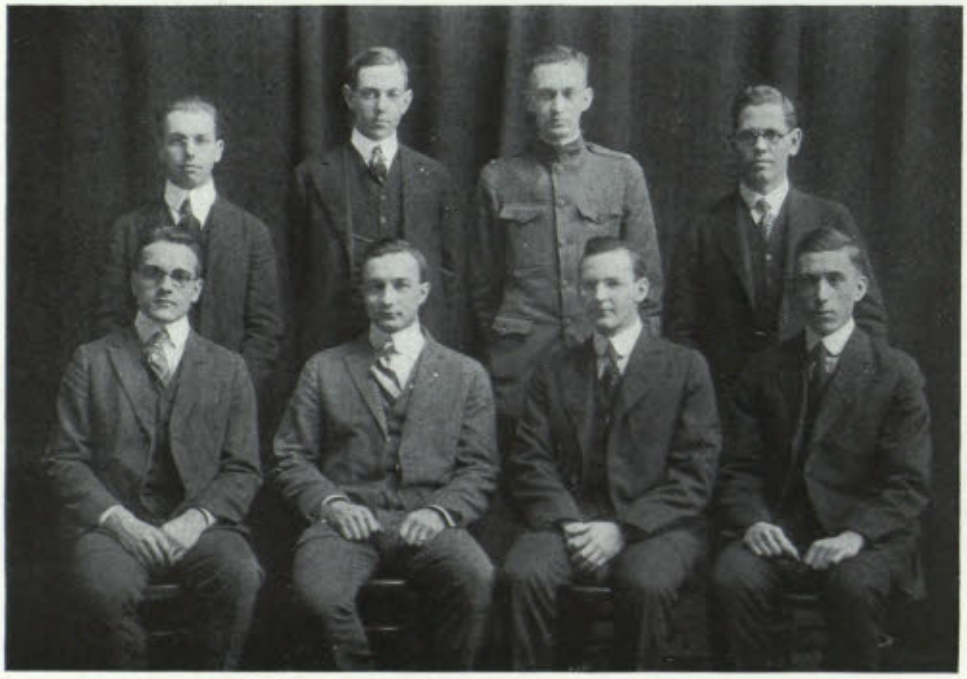
Malcolm Johns Baber
Ray Hayward Bartlett
George William Cann
Herbert Lewis Duffy
Alfred William Hough
Carlos Krebs
Arthur Lundquist
Philip Francis Maher
Mason Shaw Noyes
Philip Leonard Rhodes

1920

Tancred Spencer Greenwood
Henry Arthur Grosscup
Malcolm Stuart Howe
Armand St. Martin Kreeger
Yuan Lee
Sol. Meriam Passell
Alfred William Peterson
Arthur Roberts
Edson Irwin Schock
Thomas Reed Taber
Robert Earle Travis
Tsen Fu Wei

ELECTRICAL ENGINEERING SOCIETY

American Institute of Electrical Engineers — Massachusetts Institute of Technology Branch



Loucks, Elz — Eales, Costelloe — Lane, Gray — Adams, Grohe

OFFICERS

President
William H. Costelloe

Vice-President
Charles H. G. Gray

Secretary
George A. Elz

Treasurer
Robert F. Grohe

Executive Committee

William H. Costelloe, *Chairman*
Myron W. Adams — Malcolm A. L. Eales — Milton A. Loucks

Committee on Radio Telegraphy

William H. Costelloe, *Chairman*
Frederick A. Lane, *In Charge*
Harold W. Bibber
William L. Collins
Malcolm A. L. Eales
Albert F. Murray

MEMBERS

Faculty Members

Professor Dugald C. Jackson
Professor Arthur E. Kennelly
Professor Harry E. Clifford
Professor Comfort A. Adams
Associate Professor Ralph R. Lawrence
Associate Professor William E. Wickenden
Associate Professor Waldo V. Lyon
Associate Professor Ralph G. Hudson
Professor Frank A. Laws

Instructors

Chester L. Dawes
William T. Haines
Nathaniel S. Marston
Claire W. Ricker
Otto R. Schurig

Special and Graduate Members

Fontinelli S. Carpenter
Wei Yu Chiu
Frans Fransson
Wendell P. Munroe
Edy Velander
Hyogo Mori
Leonard A. Schwartz

1918

Harold V. Atwell
Myron W. Adams
Eli Berman
Frank S. Boice
Jacob J. Bolotin
Eaton J. Clogher
William L. Collins
William H. Costelloe
Samuel P. Crotwell
Clarence H. Dagnall
Paul F. Dudley
Malcolm A. L. Eales
George A. Elz
Yale Evelev
Harry H. Fiske
Rolfe A. Folsom
Rodolfo L. Fonseca
Oliver F. Freeman
Clarence C. Fuller
Maurice E. Gelinas
Harold L. Gleason
Aaron Goodman
Charles H. G. Gray
Robert F. Grohe
John W. Gustaveson
Carl B. Harper
Elliott D. Harrington
Ervine O. Herman
Yun-chung Hsu
Giles D. Hulseman
Charles J. C. Johansen
John W. B. Kennard
John T. Kiley
Thomas Knowland
Frederic A. Lane
Joakim Lehmkuhl
Carl A. Lindgren, Jr.
Allyne C. Litchfield
Hamazasb D. Manuelian
Samuel Mann
Edward H. Moffatt
John M. Mullowney, Jr.
Albert F. Murray
Uhachi Nabeshima
John A. Parker
Frederick B. Philbrick
John R. Poteat
Henry E. Richards
Arthur L. Russell
Philo S. Shelton
Grover C. Slator
John H. Tipton
Carleton E. Tucker
John P. Vahkliotes
Han Chen Wang
Roy Wanser
Louis P. Woodruff
Paul P. Wrigley
Jacob Young

1919

Edmund C. Adams
Franklin S. Adams
William H. Banks, Jr.
Leo E. Beaulieu
William F. Bennett
Paul W. Blye
Joseph E. Cannell
Victor Davidson
Theodore Dehon, Jr.
Charles J. Farist
Edmund G. Farrand
Ralph H. Gilbert
Frederick J. Given
Kuang P. Hu
Leo A. Kelley
Arthur C. Kenison
Max Knobel
Harry A. Kuljian
Wilfred C. Langille
Sik K. Lau
Thomas M. Lloyd
Milton A. Loucks
Edward R. McLaughlin
Maurice A. Michaels
George Michelson
Russell S. Palmer
Holden C. Priest
Frederick J. Rasmussen
Albert B. Reynolds
Morris H. Role
Ernest L. Schwartz
Timothy E. Shea
Mortin A. Smith
Lloyd R. Sorenson
Jesse Stam
Carlos A. Stöwhas
Donald D. Way
Francis A. Weiskittel
Henry R. Whiton
Dean F. Willey
Lester Wolfe

1920

Allen Addicks
Lawrence H. Allen
Ernest C. Bangratz
Harold W. Bibber
Frederick C. Bowditch, Jr.
Ralph W. Brodrick
John E. Buckley
Reginald G. Burr
Albert Calvert
Ormond W. Clark
George W. Coffin
Harmon B. Deal
Joe C. Deyette
Howard W. Emerson
Florence Fogler
Bennett M. Groisser
Weston Hadden
George L. Hall
Merton C. Hall
Louis Harshowitz
Frank P. Hudnut, Jr.
George A. Kahn
Archibald H. Kinghorn
Hubert K. Krantz
John W. Logan, Jr.
John P. Lynch
Howard F. MacMillin
Charles Maloney
Laura Martinez
George K. Matthews
Robert A. Miller
Bruce M. Mills
James G. Moir
Myer H. Naigles
Moses B. Pike
Albert P. Powell
Edwin N. Rich
Samuel Rubin
Raymond B. Sandiford
Marion S. Saunders
Christopher L. Tortorelli
Robert E. Travis
Robert P. Warriner
Kenneth B. White
Irving H. Wilson
John C. Wilson
H. C. Wong

1921

Henry P. Field
Henry Kurth





W. T. Hall Atwater L. B. Smith
Goldstein Goodridge Webster Snow

OFFICERS

President
Dean Kingman Webster, '19

Vice-President
Leighton Bruerton Smith, '19

Secretary
Walter Turnbull Hall, '19

Treasurer
Louis Julian Goldstein, '19

PROGRAM COMMITTEE
Maurice Elmer Goodridge, '19
Arthur Clark Atwater, '20

TRIP MANAGER
Leon Isaac Snow, '19

Chemical Society

MEMBERS

Graduates

Ernest Reuben Bridgwater
Wilfred Reynolds Holt
Charles Ernest Ruby

1918

Harold Vivian Atwell
Julian Miles Avery
Paul Edward Blanchfield
Stuart MacLeod Boyd
George Selden Brewer
Morris Leonard Caust
Percy Wolcott Carr
Howard Mason Cyr
Herman Dedichen
Philip Moss Dinkins
Joseph Augustine Donovan
Charles Warren Dow
George Olaf Eckwall
Lawrence Hugo Flett
Rolfe Ames Folsom
Clarence Chrisholm Fuller
Laurence Arnold Gillette
William Elmo Hartley
Ervine Olney Herman
Yun-Chung Hsu
Bertram Francis Jones
Thomas Patrick Kelley
Joseph Aloysius Kelley
Rolf Knudsen
Paul McAllister
Waldemar Stanwood McGuire
Alan Baldwin Miller
Albert Russell Mumford
John Torrey Norton
Bernard O'Daly
John Langdon Parsons
George Harrison Richards
Stanley Stewart Robinson
George Arthur Sackett
Max Seltzer
Robert Woods Van Kirk, Jr.

1919

William Hastings Bassett, Jr.
George Raynolds Bond, Jr.
Daniel Hyman Brown
Royden Lyman Burbank
Richard Francis Cashin, Jr.
Anthony William Contieri
Oswald Elmer Cooper
Blake Darling
Harold Daube
Edmond Joseph Flynn
Louis Julius Goldstein
Maurice Elmer Goodridge
Daniel Clifton Hall
Walter Turnbull Hall
Carl Alfred Hasslacher
Emil Robert Helmrich
Herman Alfred Herzog
Frank Hoyt
Shao Yu Hung
Frederick Lincoln Hunter, Jr.
Sidney Joseph Jacobs
Frederick Jessen
John Harold Kaiser
Samuel Albert Kaufman
Arthur Francis Kaupe
Alton Stewart Kelsey
Max Knobel
Raymond Guy Lafean
Gustave Levy
George Clyde McCarten
Stephen Allan Merselis
Clarence Leighton Nutting
Aloysius Francis O'Donnell
Frank George Osgood
Gretchen Abigail Palmer
Chen-Chi Pan
Harry Lawrence Peach
Ernest Fred Perkins
Alfredo de Zubiria S.
Clara Poppic
Frank Percival Reynolds
Edgar Frank Karl Seifert
Hyman Selya
Hyman Nathan Shapero
Theodore Shedlovsky
Benjamin Howland Sherman
Samuel Alfred Sherman
Leighton Bruerton Smith
Eugene Ralph Smoley
Frederick Hawley Smyser
Leon Isaac Snow
John Stevens
Chester Cameron Stewart
Ernst Frederik Ditley von Voss
Henry Wallerstein
Dean Kingman Webster, Jr.
Richard Philip Windisch
Tek Chen Yeh

Chemical Society

(*Continued*)

1920

Elliot Torrey Adams
Allan Drew Addicks
Arthur Clark Atwater
William Norman Barron
Herbert Franklin Bates
Theodore William Bossert
Harold George Bower
Laurence Elbridge Boyden
Harold Bugbee
Robert Laurence Burchell
Philip Joseph Byrne, Jr.
Vaughn Johonnott Byron
Harold Biedler Caldwell
Charles du Bois Carleton
Carl Edward Carlson
Bradford Judson Clark
Ormand Wesley Clark
Warren Lewis Cofren
Howarth Cody Collins
Henry Ruffner Couch
Edward Cousins
Foster Parker Doane, Jr.
Donald Lynd Dowling
Freeman Huntington Dyke
Roderick Koenig Eskew
Herbert Melancthon Federhen
Henry Ogley Forrest
Jerome James Franck
Simon Freed
Joseph Sidney Gelders
Leland Warren Gilliatt
Everett Clifford Glover
Philip Ebling Haebler
Lawrence Isaac Harris
James Harrop
Richard Edmond Herczell
Townsend Hill Hingston
Lauren Blakeley Hitchcock
Ernest Hamlin Huntress
Locke LeBaron James
William Sanborn Johnson
David Julius Kaplin
Laurence Emil Lambert
Marshall Baldwin Lee
Henry Mannheim Levy
Arthur Stanley Littlefield
Mendum Bartlett Littlefield
Erskine Daniel Lord
Warren McKeen
Charles William Maloney
Alden Williams Miller
Roger Gambee Mosscrop
Clyde Arthur Norton
Jacob Novack
James Stewart Parsons
John Alden Philbrick, Jr.
Albert Perry Powell
Raymond Read
Raymond Ray Ridgway
Francis Weston Sears
Harold Victor Seavey, 2nd
Hosea Hart Smith
Creighton Boyd Stanwood
Gerald Tattersfield
Gavin Robert Taylor
Robert James Tobin
Aaron Tushin
Lawrence Elmer Weymouth
Murray Morrison Whitaker
Albert Morse Young
Philip Lee Young



OFFICERS

President
Julian C. Howe

Secretary
Walter C. Wilson

Treasurer
Charles W. Drew, Jr.

Directors
Maurice E. Goodridge
John Meader
William B. Snow
Raymond Newcomb

MEMBERS

Faculty Members

Davis R. Dewey
Carroll W. Doten
Floyd A. Armstrong
Martin J. Shugrue
Erwin H. Schell

Active

1918

Clarence E. Bassett
Thomas V. Brosnahan
Harold E. Collins
Julian C. Howe
Stephen A. Hoye
Edgar W. Huckins
Joakim Lehmkuhl
William M. B. Lord
Hamazasb D. Manuelian
Lawrence P. Marshall
De Ross Salisbury
Joseph T. Sattels
Walter C. Wilson

1919

Aubrey P. Ames
Oswald Cammann, Jr.
Victor Davidson
Charles W. Drew, Jr.
Louis J. Goldstein
Maurice E. Goodridge
Ervin M. Kenison
Wirt F. Kimball
Kuangtao T. Lee
John Meader
Maurice P. Michaels
Herbert C. Muther
Raymond Newcomb
Amos N. Prescott
Lansing M. Quick
John L. Riegel
Walter C. Roberts
William B. Snow
John Stevens
Francis A. Weiskittell
George H. Wiswall, Jr.

1920

Franklin H. Blackmer
Fred C. Bowditch
Harold G. Bower
Stanley M. Bragdon
Philip S. Brown
Percy Bugbee
Edwin S. Burdell
Alan W. Burke
Malcolm S. Burroughs
Ki K. Chun
Archie P. Cochran
Warren L. Cofren
Raymond E. Davis
William J. Dean
Everett B. French
Kenneth N. Goward
Harland A. Gray
John J. Hines, Jr.
Carl H. Leander
Malcolm B. Lees
Daniel E. McCarthy
Rodman McClintock
James W. McDonald, Jr.
Alden W. Miller
Henry R. Monasterio
James S. Parsons
Henry C. Pierce
Carleton T. Proctor
Charles H. Reed
Francis C. Reyburn
T. Carlton Rowen, Jr.
Monroe Shakespeare
Henry F. Shea
Archer G. Smith
Dwight E. Stagg
M. Harrison Taylor
R. Peverill Warriner
Alfred B. Wason
Elbridge Wason
Ralph B. Webber
Kenneth B. White
John D. Wimmer
Lawrence Winant

AERO CLUB



Foley Scheeline E. Wason Chayne Copeland A. Wason Tavener Baber Harper

OFFICERS

President
Charles H. Tavener

Vice-President
Carl B. Harper

Secretary
Frank H. Copeland

Treasurer
Paul D. Scheeline

EXECUTIVE COMMITTEE

Charles H. Tavener, *Chairman*
Frank H. Copeland
Malcolm J. Baber
Frank Joseph Foley
Elbridge Wason

PROGRAM COMMITTEE

Frank H. Copeland, *Chairman*
Charles A. Chayne
Alfred B. Wason

MEMBERS

Graduates, Graduate Students and Instructors

Charles H. Chiang
Raymond B. Collerd
Frank H. Copeland
Elliot Daland
Clarence D. Hanscom
Carl B. Harper
Page S. Haselton
Shon H. Huang
Clifford E. Lansil
R. A. Milles
Ralph H. Sawyer
Leonard A. Schwartz
Edward P. Warner
Robert White

1918

Malcolm A. L. Eales
Victor L. S. Hafner
Elliott D. Harrington
William G. Laskey
Otto C. Lorenz
George M. Macheca
Frederick C. Spooner
Zeng T. Wong

1919

Malcolm J. Baber
George W. Cann
Ralph A. Cartwright
Charles A. Chayne
Oswald E. Cooper
Everett F. Doten
R. H. Durfee, H
Frederick W. Griebel
Samuel Heyman
Robert Insley
Walter R. McKenney
Mason S. Noyes
Frank G. Osgood
Edward F. Pierce, Jr.
John P. Putnam
Edward A. Richardson
John L. Riegel
Henry Rommer
Paul D. Scheeline
Bertram H. Southwick
Carl L. Svenson
Charles H. Tavener
Dean F. Willey

1920

Alan H. Andrews, H
Robert R. Berkowitz
Clinton L. Bond
Frank L. Bradley
Philip S. Brown
Harold B. Caldwell
George W. Coffin
Justin R. Curry
Harold T. Dennison
George F. Des Marais
Joe C. Deyette
Frank J. Foley
Leland W. Gilliatt
Richard H. Goldsmith
John C. Herron
Homer V. Howes
John B. Lariviere
Charles W. Maloney
Lauro Martinez
C. H. Munsell, H
Jay H. Quinn
Charles H. Reed
Francis C. Reyburn
Raymond P. Ryan
Henry F. Shea
Gerald Tattersfield
Christopher L. Tortorelli
John T. Tunis, Jr.
Alfred B. Wason
Elbridge Wason
Lyman P. Whitten
John C. Wilson
William E. Zimmerman

1921

Frederick W. Adams
Anthony G. Ahern
Clarence L. Arrigoni
Albert E. Bachmann
Henry duP. Baldwin
Frederick W. Binns
Harold O. Bixby
Robert D. Black
James F. Brittain
Dayton T. Brown
Lucian W. Bugbee, Jr.
Maxwell K. Burckett
William F. Clements
Kendrick P. Coachman
Henry S. Colton
Loring C. Creamer
Harold G. Crowley
Walter Dietz
Lawrence B. Fisher
Hartwell Flemming
Nelson M. Fuller
George B. Greely
John A. Grimmons
Herbert W. Gwynn
Walter C. Hagerton
Howard E. Hanson
Joel D. Harvey
Robert W. Haskel
Donald H. Hatheway
Joseph G. Hauber
Howard R. Healy
James R. Hotchkin
Andrew C. Jensen
Victor N. Kruse
Henry L. R. Kurth
John G. Lee
Leon A. Lloyd
Andrew D. Maclachlan, Jr.
Joseph T. Martin
Joseph H. McEoy, Jr.
S. Mixon
Oscar F. Neitzke
Wallace C. Norling
Oscar H. Pantzer
William B. Plummer
Harmon A. Poole
Donald W. Randolph
Elliott B. Roberts
Melvin C. Rose
Raymond A. St. Laurent
Sidney Senzer
John M. Sherman
Solomon M. Silverstein
Amos H. Stevens
Thomas T. Stevenson
George W. Swift
Howard B. Tuthill
A. A. Twiner
Harold C. Wagner
Francis T. Whitworth
Laurence L. Willard



STVDENT ACTIVITIES

INSTITUTE COMMITTEE

THE Institute Committee is a body which represents every important student activity and which holds in its hands the affairs of student government. Through its executive committee, it keeps in touch with every branch of student life for purposes of investigation and constructive criticism. Meetings are held twice a month.

When school opened last fall, the Institute Committee was confronted with the problem of determining the status of the undergraduate activities during the coming year. It was decided that student activities still had a place in student life at Technology and that the undergraduates as a whole would benefit by continuing activities on a somewhat reduced scale. Many of the men who had been prominent in activities last year were in government service, and the boards of the organizations were depleted. In order to interest new men, the Activities Committee, a sub-committee, published information regarding positions open for competition so that new men could pick out favorable activities. At CourtNyte the necessity of maintaining activities was again emphasized. *The Tech* gave its dinner to the undergraduates to arouse interest in the subject, and now every large activity of previous years is still in existence and its organization is being maintained for the future.

The Student Tax had its first trial, and though it was compulsory only in the freshman class, over 1400 out of a possible 1670 payments were collected in a week's campaign. The funds from this tax have maintained a doctor at the Institute, enabled the track management to carry out its scheduled meets, and has tended to keep student activities on a firm financial basis.

This year the Institute Committee has been occupied principally in regulating the scope of activities and in seeing that they were kept up to the standards set in other years. The absence of the older men in activities led to men carrying more than the permissible number of points. This was remedied in certain cases by a fairer allotment of points. As the year progressed new men were put in the less responsible positions so that the limit of ten points is now again rigidly enforced.

A slight change in the method of Technique elections was brought about. The business and art staffs of the annual are henceforth to be appointed as the result of competitions conducted by the Technique Board then in office, during the sophomore year of the class whose numerals the book bears. In this way these two departments, in which experience is of greater value than originality, will be managed by men familiar with the required work. The old Technique Electoral Committee with all its traditions has been retained, for in the twenty-eight years of its existence it has produced surprisingly successful boards and given to Technique a unique position among collegiate activities.

Institute Committee



Costelloe Officer Wyer Bradley Washburn Alvaré
Dalton Kellar Pierce Stockwell Mayer Macheca O'Hearn
Rowe Reid Dinkins Van Kirk Banks McCarten Ryan
Saunders Brewer

There was some question as to the advisability of permitting the production of the Tech Show this year. The Alumni Council took up the matter and decided favorably, and consequently the Show Management has continued the activity and intends to give their production this year primarily to raise funds for the support of the Technology Bureau of the American University Union in Europe. Definite rulings were made in regard to the standing of minor activities not represented on the Institute Committee, and the requirements for admission suggested by a special committee were incorporated in the by-laws and promulgated. The drive for the Y.M.C.A. War Fund was organized by the Committee and some eight thousand dollars were raised in a short time.

The Institute Committee has this year directed its efforts principally to encourage the continuation of all activities which have in past years been found to be of value to the undergraduate. It is now confronted with the problem of maintaining these activities under changed conditions. The present sophomores who will virtually be seniors next year, owing to the probable graduation of many of the Class of 1919 in October, 1918, will find itself in charge of all undergraduate activities. The reorganization necessary to make this successful will have to be conducted by the Institute Committee.

Institute Committee

OFFICERS

President
Robert Woods Van Kirk, Jr.

Vice-President
*Carl Edison Thomas
William Howard Banks, Jr.

Secretary
George Clyde McCarten

Treasurer
*Oliver Donn Burton
Philip Moss Dinkins

Executive Committee

Robert Woods Van Kirk, Jr., *Chairman*

*Carl Edison Thomas
*Oliver Donn Burton
Kenneth Reid
William Howard Banks, Jr.
Philip Moss Dinkins
Marvin Pierce

George Clyde McCarten

Class Representatives

1918

Robert Woods Van Kirk, Jr.
*Oliver Donn Burton
Kenneth Reid
Philip Moss Dinkins

1919

*Carl Edison Thomas
William Howard Banks, Jr.
George Clyde McCarten
*Kenneth Andrews Wright
Donald Dickinson Way

1920

*Edward Vaughn Jones
Edwin Delamater Ryer
Frank Leo Bradley
*James Lindley Dean
John William Kellar

1921

Ernest Farnham Stockwell
*Garvin Bawden
Rollin Francis Officer
Edmund Francis O'Hearn

Members Ex-Officio

Robert Murray Blackall	Architectural Society
William Patrick Ryan	Athletic Association
Julian Miles Avery, 1st Term Dean Kingman Webster, Jr., 2nd Term	Chemical Society
Marvin Pierce	Civil Engineering Society
Nemesio Faustino Alvaré	Cosmopolitan Club
William Wyer	Dormitories Committee
William Henry Costelloe	Electrical Engineering Society
*Richard Alfred Wilkins *Julian Cheever Howe William Wyer	Finance Committee
Albert Saunders	Mechanical Engineering Society
Laurance Melvin Dalton	Musical Clubs
George Bradfield Hutchings, Jr.	Tech Show
David Oscar Mayer	Technique
George Michael Macheca	Technology Monthly
George Selden Brewer	Technology Christian Association
*George Bradfield Hutchings, Jr. Donald Dickinson Way	The Tech
*Philip Moss Dinkins James Everett Rowe	Walker Memorial Committee

* Resigned



PVBLICA-TIONS

The Tech

Established 1881



Farrington Giuranovich Winant Hutchings McKenney Way

WHEN the Institute year closed in June, 1917, undergraduates were leaving for their homes with the thought of enlisting in some form of war service uppermost in their minds, in spite of the repeated urgings of the Faculty to return to Technology and complete their educations. There was need of some form of communication between the Institute in Cambridge and the students scattered over the United States, for only by showing the student the lead which the Alumni of the Institute were taking by virtue of their technical training, in the work of carrying on this war, could he be dissuaded from enlisting precipitately. It was the task of maintaining a system of "liaison" that the *Tech* took upon itself when it decided to continue the publication of Volume XXXVII during the summer months under the title of the *War-Time Tech*.

The first issue of the *War-Time Tech* appeared on June 19, containing articles on the activities at the Institute, on the doings of the hard-working men at Plattsburg, and on the work of the Technology Alumni in Washington. So successful were the first three issues that the Alumni Association and the Washington

Bureau decided to use the *Tech* as their official organ, and steps were immediately taken to expand the organization of the paper to fit it for the task of supplying six thousand Alumni with Technology news twice a week. On July 3 the first issue of the *War-Time Tech* appeared on its enlarged scale.

During the summer months it came out regularly twice a week, forming the co-ordinating link between the Institute, the Alumni Association, the Technology Clubs, the Women's War Service Auxiliary, the Technology Bureau in France, and the Undergraduate Association.

OFFICERS

Managing Board

John Warren Damon, '18	*General Manager* (April to July)
Paul Cooledge Leonard, '17	*General Manager* (July to September)
George Bradfield Hutchings, Jr., '18	*General Manager* (September to December)
Donald Dickinson Way, '19	*General Manager* (January to April)
Alfred Newell Pray, '18	*Editor-in-Chief* (April to July)
Kenneth Reid, '18	*Editor-in-Chief* (July to November)
Arthur Joseph Giuranovitch, Jr., '18	*Editor-in-Chief* (November to February)
Donald Dickinson Way, '19	*Managing Editor* (April to October)
Walter Raymond McKenney, '19	*Managing Editor* (October to December)
Count Brooke Capps, '20	*Managing Editor* (February to April)
John Meader, '19	*Treasurer* (April to July; Sept. to Nov.)
Richard Alfred Wilkins, '18	*Treasurer* (July to August)
George Alexander Irwin, '19	*Advertising Manager* (April to July)
Saxton Woodberry Fletcher, '18	*Advertising Manager* (September to October)
William Eastman, Jr., '18	*Advertising Manager* (July to August)
George Bradfield Hutchings, Jr., '18	*Advertising Manager* (August to September)
Walter Lawrence Winant, '20	*Advertising Manager* (September to November)
Oswald Cammann, Jr., '19	*Circulation Manager* (April to May)
Augustus Page Farnsworth, '19	*Circulation Manager* (May to July)
Oliver Donn Burton, '18	*Circulation Manager* (July to September)
Arthur Everett Farrington, '19	*Circulation Manager* (September to February)
Lincoln Barrett Barker, '21	*Circulation Manager* (February to April)

News Board

Walter Raymond McKenney, '19	*Assistant Managing Editor*
Edwin Sharp Burdell, '20 Count Brooke Capps, '20 Albert Kruse, '20 Harry Montgomery Noelke, '20 Kenneth Roman, '20	*Night Editors*
John Henry Coyle, '20 Louis Barrett Harris, '20 Reginald Hammerick Smithwick, '21 George Russell Steininger, '21	*Associate Night Editors*
Carole Aaron Clarke, '21	*Military Editor*
Homer Vernon Howes, '20	*Question Box Editor*

News Staff

Morris Miller Bauer, '21
Jesse Irwin Doyle, '20
Edward Edwards, '21
Hartwell Fleming, '21
William Albert Gallup, '21
Zambry Giddens, Jr., '21
Sanford John Hill, '21
Henry Louis Rheinhold Kurth, '21
Robert Joseph Lawthers, '21
Harold Lester Levin, '21
John Thomas Rule, '21
Max Seltzer, '18
Sidney Senzer, '21
Warren Gookin Waterman, '21

Business Staff

Alexander Duer Harvey, '21
Arthur Webster Morse, '21
Louis Wooden Moss, '21
Norman Frisbie Patton, '21
Raymond Alfred St. Laurent, '21
Richard Phillips Windisch, '21

Circulation Department

Roger Henderson Damon, '21
William Morten Breakey Freeman, '20
Carl Hilding Leander, '20
Howard Francis MacMillan, '21
Harold Daniel Moore, '21

TECHNOLOGY MONTHLY



THE first issue of the Technology *Monthly* made its appearance in April, 1914, and was introduced with the idea of bridging over the gap existing between the scope of a newspaper, *The Tech*, and that of an annual, Technique.

In the first two volumes the magazine was confined largely to articles of a more or less technical nature, although the issues also embodied cartoons and articles of general interest to the faculty and student body. In 1915 this publication was combined with the *Harvard Engineering Journal*, following the alliance between the Harvard Graduate School of Applied Science and Technology. This year, however, the former independent arrangement was resumed.

The *Monthly*, pursuant of the course inaugurated by its present Board, has become more of an all-round college magazine. It has not in any sense abandoned its technical part; but by increasing the space devoted to timely cartoons and caricatures, has greatly aided the new "get-together" spirit fostered by the dormitory life and the activities at Walker Memorial. Following up President Maclaurin's sincere wish that the men of the Army and Navy schools here feel that they are Technology men, the *Monthly* has admirably undertaken to do its share toward making them feel their close connection with the Institute. With the full and hearty approval of the Commandants of the schools the *Monthly* has been able to print articles and cartoons contributed by the men, and in addition photographs, which by showing the actual training of the men are of peculiar value to the men themselves, and are also of national interest.

As the official organ of the Aero Club, the *Monthly* has been the source of many articles incident to some of the biggest problems of the present war. With its aviation and military stimulus the *Monthly* is a true exponent of the War Spirit of Technology.

Technology Monthly



Tavener Wills Irwin Gokey Hamilton Whitworth Macheca Swift Harper Stose Snow Morrison

BOARD OF DIRECTORS

General Manager
George Michael Macheca, '18

Editors-in-Chief
Malcolm Alfred Lancelot Eales, '18
Carl Brown Harper, Grad.

Managing Editor
Raymond Brett Collerd, '20

Business Manager
Arthur Leo Hamilton, '18

STAFF

Assistant Managing Editors
George Wheeler Coffin, '20
Henry Gerard Dooley, '20

Assistant Business Manager
Frederic Channing Bowditch, Jr., '20

Circulation Manager
Robert Fletcher Morrison, '19

Publicity Manager
Kenneth Blake White, '20

Treasurer
Homer Vernon Howes, '20

Assistant Publicity Manager
John Wood Logan, Jr., '20

Assistant Treasurer
Francis Thomas Whitworth, '21

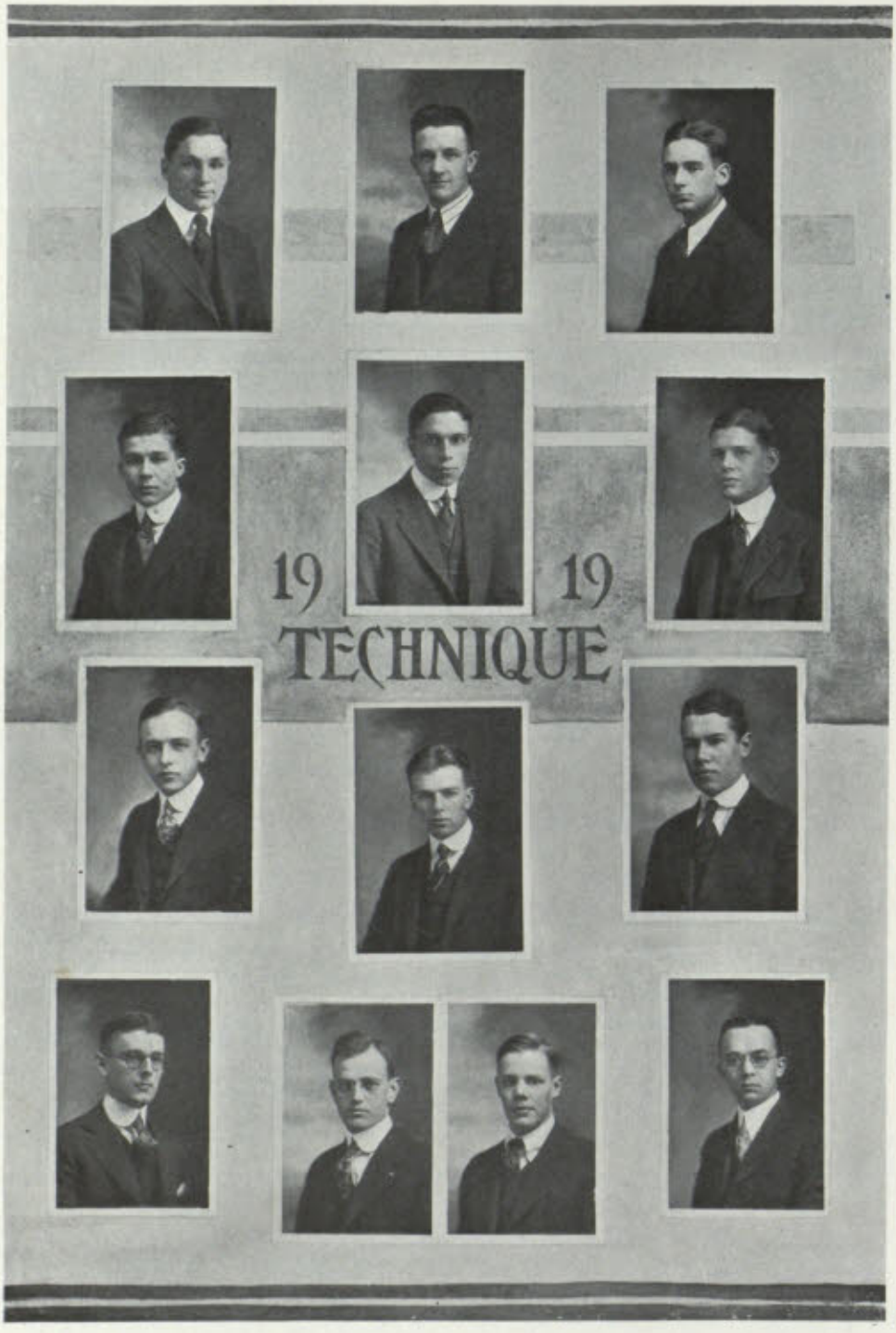
Advertising Manager
Raymond Anthony Snow, '21

Staff Cartoonist
Royal Barry Wills, '18

Exchange Editor
Donald Judd Swift, '21

ASSISTANT EDITORS

Gerald Tattersfield, '20
Charles Howell Tavener, '19
Harold Frederick Stose, '21
George Frank Gokey, Jr., '20
William Henry Irwin, '21
Max Seltzer, '18
Céleste Johnson Brennan, '19


19 19
TECHNIQUE

Technique Board

MARSHALL COULTER BALFOUR
Athletics Editor

EUGENE RALPH SMOLEY
Associate Business Manager

DAVID CURTIS SANFORD, JR.
Grind Editor

DAVID OSCAR MAYER
Editor-in-Chief

JAMES WARD REIS, JR.
Treasurer

JOHN LAWRENCE RIEGEL
Business Manager

CUTTER PIERCE DAVIS
Statistician

ROBERT PRESCOTT HACKETT
Portfolio Editor

ADOLPH LANCKEN MÜLLER
Art Editor

FREDERICK WALDO BARNEY
Faculty Editor

SAMUEL ALBERT BRUNELLE
Assistant Art Editor

GEORGE HENRY WISWALL, JR.
Societies Editor

OSWALD CAMMANN, JR.
Photograph Editor

FORMER EDITORS OF TECHNIQUE

1885 { F. P. Gulliver, *Editor-in-Chief*
H. C. Spaulding, *Business Manager*

1886 { G. E. Claflin, *Editor-in-Chief*
L. A. Ferguson, *Business Manager*

1887 { J. L. Mauran, *Editor-in-Chief*
R. L. Russell, *Business Manager*

1889 { H. E. Hathaway, *Editor-in-Chief*
F. C. Blanchard, *Business Manager*

1890 { F. Metcalfe, *Editor-in-Chief*
H. M. Waite, *Business Manager*

1892 { R. Waterman, Jr., *Editor-in-Chief*
A. L. Goetzmann, *Business Manager*

1893 { L. B. Dixon, *Editor-in-Chief*
A. L. Kendall, *Business Manager*

1894 { R. K. Sheppard, *Editor-in-Chief*
A. M. Robeson, *Business Manager*

1895 { A. D. Fuller, *Editor-in-Chief*
A. L. Canfield, *Business Manager*

1896 { Benj. Hurd, Jr., *Editor-in-Chief*
A. D. Maclachlan, *Business Manager*

1897 { W. Bancroft, *Editor-in-Chief*
T. Washburn, *Business Manager*

1898 { R. S. Willis, *Editor-in-Chief*
H. I. Lord, *Business Manager*

1899 { C. Renshaw, *Editor-in-Chief*
A. L. Hamilton, *Business Manager*

1900 { L. Stewart, *Editor-in-Chief*
G. H. Belknap, *Business Manager*

1901 { J. T. Scully, Jr., *Editor-in-Chief*
P. H. Parrock, *Business Manager*

1902 { C. A. Sawyer, Jr., *Editor-in-Chief*
A. E. Lombard, *Business Manager*

1903 { H. S. Morse, *Editor-in-Chief*
J. T. Cheney, *Business Manager*

1904 { G. E. Atkins, *Editor-in-Chief*
W. E. Hadley, *Business Manager*

1905 { G. B. Perkins, *Editor-in-Chief*
W. Turner, *Business Manager*

1906 { M. A. Coe, *Editor-in-Chief*
C. F. W. Wetterer, *Business Manager*

1907 { A. H. Donnewald, *Editor-in-Chief*
G. A. Griffin, *Business Manager*

1908 { H. A. Rapelye, *Editor-in-Chief*
W. B. Given, Jr., *Business Manager*

1909 { R. H. Allen, *Editor-in-Chief*
M. R. Scharff, *Business Manager*

1910 { D. C. McMurtrie, *Editor-in-Chief*
C. E. Creecy, *Business Manager*

1911 { D. R. Stevens, *Editor-in-Chief*
F. A. Moore, *Bus. Mgr., 1st Term*
C. S. Anderson, *Bus. Mgr., 2nd Term*

1912 { H. E. Kebbon, *Editor-in-Chief*
D. F. Benbow, *Business Manager*

1913 { L. C. Hart, *Editor-in-Chief*
C. F. Cairns, *Business Manager*

1914 { A. C. Dorrance, *Editor-in-Chief*
D. L. Sutherland, *Business Manager*

1915 { H. R. Crowell, *Editor-in-Chief*
G. Urquhart, *Business Manager*

1916 { C. W. Loomis, *Editor-in-Chief*
H. B. Shepard, *Business Manager*

1917 { J. M. DeBell, *Editor-in-Chief*
P. C. Leonard, *Business Manager*

1918 { K. Reid, *Editor-in-Chief*
P. M. Dinkins, *Business Manager*

TECHNOLOGY REVIEW

THE TECHNOLOGY REVIEW, the official organ of the Alumni Association, is published monthly during the school year. Its object is to promote the welfare and advancement of the Massachusetts Institute of Technology by keeping its graduates, and others interested in its progress, in touch with it. In its articles are discussed the growth and expansion of the Institute, the general problems of education that pertain to it, and the important achievements, both in engineering and science, of its past students. It also reports in an informal way the action taken by the Corporation and Faculty, the meetings of the local alumni associations, and the news relating to student organizations and to the social life of the Institute in general. It presents also the personal information obtained by the Class Secretaries in regard to the occupations and activities of former students.

COMMITTEE ON PUBLICATION

Frederic Harold Fay, 1893, *Chairman*
Warren Kendall Lewis, 1905
Lester Durand Gardner, 1898
Marshall Bertrand Dalton, 1915
Harold Sayward Wonson, 1907
Professor Robert E. Rogers, *Editor*
Walter Bradlee Snow, 1882, *Advertising Manager*



JUNIOR WEEK

1 TECHNIQUE RUSH 20

1918 Technique Rush

THE 1918 Technique Rush was without doubt the most successful opening for Junior Week held in recent years. The small, turret-like blockhouse of Technique had been placed in the middle of the Great Court and encircled by a wide arena from beyond which the spectators could watch the Rush. The little fort was decorated with the national colors, and the presence of a detachment of the Technology Engineer Corps lent a military air to the event.

Immediately after the dismissal of classes at noon, April 17, 1917, the traditional Technique Band, fittingly attired, paraded around the Court and lead the classes to their places about the arena. The spectators and camera men waited expectantly as the Technique Board, wearing the uniforms of naval cadets, advanced in a line from the portico of the Administration Building. At a signal from Kenneth Reid, the Editor-in-Chief, the contestants lined up for the charge on the blockhouse. The crack of the first shot sent a hundred or more men rushing for the stronghold. For several minutes the mob fought around the little building, each man doing his best to scramble over the others onto the roof, and each trying to prevent the rest from succeeding. Then with the report of the second shot, the first receipt-slab was pushed up through the slot in the roof. W. C. Wood, '17,



The Start

The Finish



The First Book

in a wild rush came hurdling over the mob, fought his way to the roof, and after a slight tussle stood alone on top of the blockhouse. He seized the first wooden slab as it came out and jumped to the ground with his prize. For fifteen minutes until the twentieth slab had been pushed up through the roof, the men piled around the stronghold, while the very masculine and thickly painted red cross nurses ministered to the needs of the wounded.

Immediately after the Rush the winners of the first books received their prizes, and the year book was distributed to the subscribers.

The winners of books in the 1918 Technique Rush were:

1 Walter C. Wood, '17
2 Maurice E. Goodridge, '19
3 Robert L. Turner, '20
4 Garnett H. Porter, '18
5 Harold F. Hunter, '20
6 Norman P. Dana, '20
7 Leon L. McGrady, '17
8 Donald G. Bradley, '18
9 Laurence A. Gillett, '18
10 Walter A. Wood, '17
11 Evert W. Freeman, '20
12 Laurence M. Dalton, '19
13 Walter T. Hill, '19
14 Disqualified
15 Kenyon Roper, '18
16 William Pinkney, Jr., '19
17 John McCloskey, Jr., '20
18 Frank G. Osgood, '18
19 Richard T. Lyons, '17
20 Amos N. Prescott, '19

As is the custom, these first twenty books were autographed by President Maclaurin, and the first four and twentieth books were awarded to the winners free.

JUNIOR PROM

Copley-Plaza Hotel **Friday Evening, April 19, 1918**



Fleming Drew Banks Hackett Doten

1919 JUNIOR PROM COMMITTEE

William Howard Banks, Jr., *Chairman*

Everett Fitz Doten
Charles Wayland Drew, Jr.
Robert Prescott Hackett
Eugene Ralph Smoley

MATRONS

Mrs. Richard C. Maclaurin
Mrs. James P. Munroe
Mrs. Edwin B. Cunningham

PATRONESSES

Mrs. William H. Banks
Mrs. Alfred E. Burton
Mrs. Herbert W. Doten
Mrs. Charles W. Drew
Mrs. Robert J. Fleming
Mrs. Horace S. Ford
Mrs. Isabel P. Hackett
Mrs. Dugald C. Jackson
Mrs. Robert E. Rogers
Mrs. Constance K. Smoley


THE
TECH
SHOW

TECH SHOW

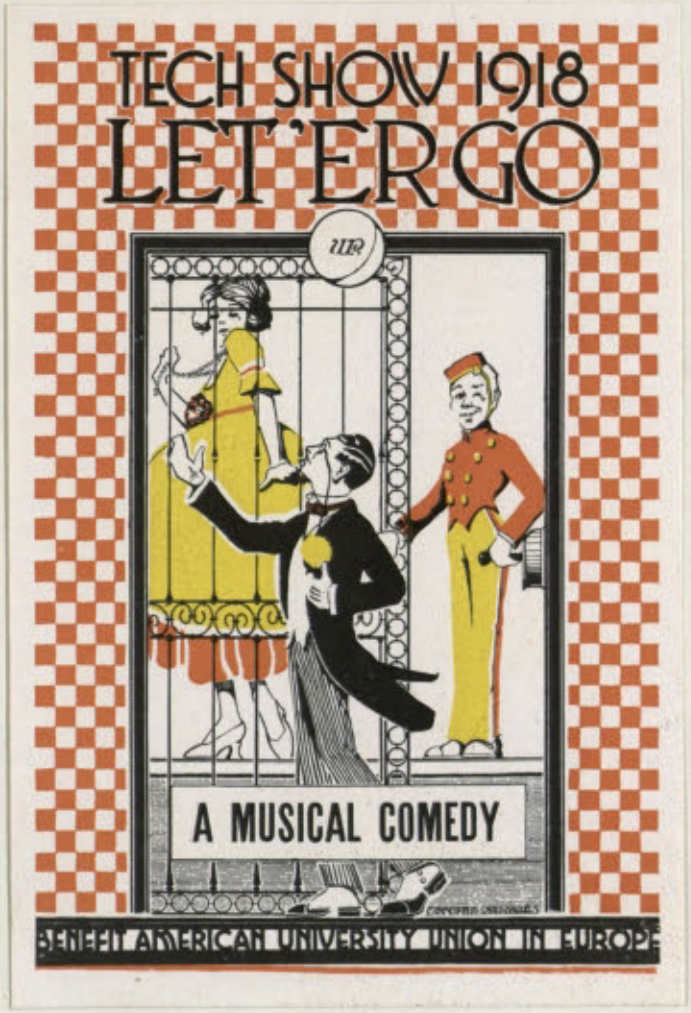
"LET 'ER GO," the twentieth annual Tech Show, written by Elliott D. Harrington, '18, is a musical comedy in three acts, portraying the adventures of a student in love.

The play opens in the Eta Biten Di Fraternity house on the occasion of its June party. Jack Wilder, a senior at Technology and all-round good fellow, has continually refused to have anything to do with the fairer sex and is supported in his views by his chum, Artie Choke, an optimist and college humorist. Upon their arrival at the party, these two confirmed woman haters reassert their skepticism, only to find their resolutions shattered by Helen Barnes, who has come up from New York with her parents as a guest of honor, and Pussy Willow, a bewitching little Quaker girl. Jack falls in love with Helen at first sight, and Artie finds himself heels over head in love with Miss Pussy.



PREMIER DANSEUSE

Percy Pierce, scion of an aristocratic family, with a monocle and also an accent, is Jack's rival for the hand of Miss Barnes, and by clever scheming succeeds in getting Jack bound by contract not to be seen in Helen's presence during the next six months and also to become financially successful. In order to force Jack to violate his pledges Percy Pierce invites both Wilder and Artie Choke to the Popley Caza Hotel where,



THE POSTER

unknown to them, Mr. Barnes and his family are staying. Upon their arrival at the Popley Caza, Jack overhears Mr. Barnes instructing his financial representative to purchase a certain tract of land adjoining their shipbuilding yards in order to provide space for their new ways. Jack Wilder realizes from their conversation that the land is the property of an aged aunt of his and immediately decides to buy the ground before the shipbuilders have an opportunity to bid for it. Helen appears, and although both she and Jack realize what it may mean to be found in each other's presence, they cannot resist a last farewell. Artie, in his search for Percy, has come upon Pussy Willow, who by chance is stopping at the same hotel. They appear on the scene just in time to smuggle Jack and Helen into the elevator and prevent their being seen together by Mr. Barnes.

Just as they have convinced him that everything is as it should be, something goes wrong and Barnes discovers Helen in Jack's arms. He declares that Jack has broken his contract and must therefore give up Helen; and Jack, although determined more than ever to marry Helen, advises her to follow her parents' wishes and marry Percy Pierce.

The wedding of Helen and Percy is set to take place at once at the summer home of the Barnes' family. On the day of the wedding Artie and Pussy arrive as two of the invited guests. After considerable difficulty, Jack, who has hired himself out as a gardener on the estate, manages to get into the house without being seen except by his two friends, Artie and Miss Willow. Percy is sent on a wild-goose chase. Jack removes his laborer's clothes, and, producing a mustache, becomes the perfect double of Percy just before the ceremonial procession is formed. In the meantime Jack's agent has boosted the price of the land purchased from his aunt and finally sold it to Barnes' representative at a profit of almost three hundred thousand dollars. Jack, unsuspected by the guests, is married to Helen; and just as the ceremony is completed Mr. Barnes' agent rushes in to tell them that he has learned that Percy Pierce is a bounder and absolutely worthless, while the despised Jack Wilder is the man who has engineered the three-hundred-thousand-dollar deal and made a considerable profit at the expense of Barnes Shipbuilding, Inc. Mr. Barnes and his wife are disappointed, but Jack discloses his identity and, surprised and pleased, the parents declare the contracts off.



Jack and Helen



Percy and Artie

The advisability of continuing the Tech Show this year as heretofore was at first questioned; but it was finally decided to produce it primarily for the benefit of those lower-classmen who had entered the Institute with the intention of staying until their technical training was completed; and secondarily to preserve the organization for the future. The Alumni Council gave the Show its enthusiastic support, and heartily endorsed the plan of the management to turn the proceeds over to the Technology Bureau of the American University Union in Europe.



ELLIOTT D. HARRINGTON, Author Tech Show, 1918

As in the past two years the scenery has been designed and built under the direction of an undergraduate committee; and the production, although not so extravagant as those of late years, nevertheless maintains the standard of the Tech Show.

Twentieth Annual Tech Show, 1918

"Let 'Er Go"

A musical comedy in three acts

Book by ELLIOTT DEAN HARRINGTON, '18

Lyrics by

Sherman A. MacGregory, '18
Jesse Stam, '19
Elliott D. Harrington, '18
Alan B. Miller, '18
William T. Hedlund, '20
Frank D. Gage, '21
John H. Coyle, '20
Percy W. Carr, '19

Music by

Earl P. Collins, '18
Alan B. Miller, '18
Percy W. Carr, '19
Frank D. Gage, '21
William T. Hedlund, '20

Costume Committee

Gretchen A. Palmer, '18, *Chairwoman*

Scenery Committee

Ernest A. Grunsfeld, '18, *Chairman*

Eric W. Drury, '18
Royal B. Wills, '18
Harold C. McLaughlin, '18
Georgius Y. Cannon, '18

Coach
William Cary Duncan

Orchestra Director
William Howard

Dancing Directress
Mme. Moschito



Hanson Grunsfeld Spitz Whitehead Baker Nixon
Smith Steffian Bugbee Philbrick Hammond Pratt Lee Barker
Denison Harrington Washburn Hutchings Mayer Ryer Collins

TECH SHOW MANAGEMENT

General Manager
George B. Hutchings, Jr., '18

Assistant to General Manager
Frederick A. Washburn, '18

Business Manager
Horace W. Denison, '19

Publicity Manager
D. Oscar Mayer, '19

Treasurer
Minor M. Beckett, '19

Stage Manager
Edwin D. Ryer, '20

Assistant Managers

Business

Percy Bugbee, '20
Ernest P. Whitehead, '20
Fearing Pratt, '21
Herbert W. Smith, '21
Richard J. Spitz, '21
Edwin T. Steffian, '21

Publicity

Carl W. Hammond, '20
Eben H. Baker, '21
John G. Lee, '21

Stage

John A. Philbrick, Jr., '20
William R. Barker, '21
Paul L. Hanson, '21
Stuart Nixon, '21

Property

Raymond Ridgeway, '20



Davidson Wolfson Britton Parsons Dooley Wyse Akers Booth Chandler Felsenthal Coldwell Nelson Harrington Nelles MacGregory

TECH SHOW CAST

JACK WILDER, a senior at Tech	LESTER VAND. CHANDLER, '19
ARTIE CHOKE, his irrepressible pal	CHARLES J. PARSONS, '19
JAMES P. BARNES, of New York	CHRISTOPHER B. NELSON, '21
PERCY PIERCE, Jack's rival	EDWARD W. BOOTH, '21
GUS BARNETT, Percy's friend	FRANCIS O. WYSE, '19
AMBROSE HANDSOME, Barnes' secretary	SHERMAN A. MACGREGORY, '18
KANAKOKO, Barnes' Japanese valet	TREVOR O. DAVIDSON, '21
JACKSON, butler at the Eta Biten Di house	PHILIP A. NELLES, JR., '20
RED CAP, the elevator boy	HENRY G. DOOLEY, '20
ELLIOTT D. HARRINGTON, a guest	ELLIOTT D. HARRINGTON, '18
HELEN BARNES, the heroine	KENNETH F. AKERS, '20
MRS. JAMES P. BARNES, her mother	ROBERT M. FELSENTHAL, '21
PUSSY WILLOW, a Quaker girl	FREDERICK S. BRITTON, '19
MRS. WILLOW, her mother	JAMES J. WOLFSON, '20
PREMIER DANSEUSE	JOHN S. COLDWELL, '19



Burnham Norton Church Stewart Hill Fisk Clark Robbins Carven Hermann Stagg Pridmore

TECH SHOW CHORUS

Men

H. Howland Fisk, '19
Erwin R. Hermann, '21
A. Warren Norton, '21
Marshall E. Pridmore, '21
Donald A. Robbins, '21
Chester C. Stewart, '19

Girls

Lawrence H. Burnham, '20
C. Coleman Carven, '21
John W. Church, '21
Bradford J. Clark, '20
Sanford J. Hill, '21
Dwight E. Stagg, '21

Ballet

Waldo Adams, '21
Philip S. Brown, '20
Lucian W. Bugbee, Jr., '21
John W. Church, '21
D. Bradford Demond, '18
Vladimir Dixon, '21
John W. Friery, '18
Ralph R. Lewis, '21
Eaton Webber, '19



Kurth Bates Lord
Hedlund Case Goldberg Clarke Shepard Farmer
Smith Bugbee Coachman Bean Quinn Dirksen Seifert Harvey Watov
McGuire Brown Raphael Forbes Thompson Sanderson Reinhard Murphy Tushin

THE M. I. T. ORCHESTRA

First Violins

Karl D. Bean, '20
Max Goldberg, '21
William T. Hedlund, '20
Erskine D. Lord, '20
Herbert W. Reinhard, '21
Theodore Shedlovsky, '19
Abram E. Watov, '21

Second Violins

L. Newton Brown, '21
Carole A. Clarke, '21
Joel D. Harvey, '21
Henry Kurth, '21
Rosimond M. Raphael, '21

Violincellos

Kenneth Bates, '21
Harold Bugbee, '20
John J. Murphy, '21
Edgar F. K. Seifert, '19

Flutes

Kendrick P. Coachman, '21
Howard M. Forbes, '21
George R. Jamieson, '21

Cornets

G. Everett Farmer, '21
Donald B. McGuire, '20
John W. Shepard, '21

Horns

Edward W. Sherman, Jr., '21
Phil R. Thompson, '20

Clarinets

P. Cornelius Dirksen, Jr., '21
Albert E. Smith, '21

Trombones

Willard A. Case, '21
Nathan H. Sanderson, '21

Viola

Donald W. MacArdle, '18

Piano

Aaron Tushin, '20

Drums

Jay H. Quinn, '21

Manager, Phil R. Thompson, '20



MVSICAL CLVBS

MUSICAL CLUBS



Back Row. Levin Saunders Rogers Ahern Norton Hackett Wiswall Seavey Coachman Insley Jetter Peterson
4th Row. Craighead Abercrombie Hanley Siegfried Bugbee Stewart Graham Carpenter Fiske Gray McLaughlin Gilbert
3rd Row. Bugbee Webber Burroughs Reid Whitman Hotchkin Burke Blood Chambers Nichols Curry Ford
2nd Row. Davis Prescott Conant Merryweather Dalton Poteat Shultz Harrington Hazard Landis Wilson
1st Row. Collins Carven Church Akers Leland Morrison Whitaker

OFFICERS

General Manager
Laurance Melvin Dalton, '19

Treasurer
Weir Orford Merryweather, '20

Publicity Manager
David Lewis Fiske, '20

Freshman Assistants
Charles Hubbard Burnham, '21
Henry Neuman Landis, '21
Wilfrid Mulock Thomson, '21
George Anthony William Smith, '21

AT the opening of the Institute in the fall the Musical Clubs faced the problem all activities have had to settle in view of the unusual conditions, as to what should be its policy for the year. The decision of the management of the clubs, like that of the other activities, was to proceed with the regular season as in normal times, but with the aim in view of doing as much entertaining as possible for benefit purposes. With the exception of the mid-year trip the regular schedule of concerts was carried on.

At the trials, which came early in October, over one hundred and fifty men reported, and from the musicians chosen very excellent clubs were organized; the Glee and Banjo sections being particularly strong. The quartets and individual talent, however, were not quite up to the standard set by the clubs of the preceding year. The organization was fortunate in having C. T. Proctor, '20, again this year as Xylophone soloist, and the dancing act of J. S. Coldwell, '19, and E. D. Harrington, '18, made an unusually good novelty act.

The first appearance was on November 13 at the Franklin Square Hotel, where the opening concert has always been given. Two benefit performances followed, one at Waltham on December 4 for the Special Aid Society, and the other at Simmons College on December 8 for the Red Cross benefit. The Winter Concert was held at the Hotel Somerset on December 13. The programme of two hours was followed by dancing until two o'clock. About three hundred couples attended, and the affair was a complete success in every way.

This concert closed the list of engagements for the first term. Since the middle of the summer Manager Dalton had been working on plans for a trip to be taken by the clubs during the mid-year vacation, and a very attractive schedule of concerts was nearly complete. Arrangements had been made for a tour to take in Baltimore, Washington, Richmond, Petersburg, Sweet Briar and Lynchburg, Va. However, as the time for the trip approached, it became evident that, on account of the difficulty of obtaining transportation accommodations, and also on account of conditions at the Institute, a mid-year trip this year would not be feasible. At a combined meeting of the clubs it was therefore voted to give up the tour, but the sentiment was strongly in favor of continuing with the local concerts.

The first concert of the second term was given at Howard Seminary, West Bridgewater. The men were entertained at dinner by the girls of the school, and as at most of the concerts, a short dance followed the entertainment. The two joint concerts with the Wellesley College Musical Clubs on February 22 and 23 were perhaps the biggest events of the season. The affairs were very popular and the attendance large on both nights. The combined numbers of the two Glee clubs were very well done, and in addition there were selections by the Wellesley Glee Club, and the Technology Banjo Club. The proceeds of these concerts were given to the Red Cross. Three other concerts, at Lynn on March 18, Salem on March 22, and Framingham on April 12 preceded the Spring Concert at the Hotel Somerset in Junior Week.

The final banquet of the clubs was held at the Riverbank Court Hotel on April 27, when the annual business meeting was held and the officers elected for the coming year.

THE GLEE CLUB



Craighead Jetter Ahern Burke Curry Rogers Norton
Graham Hanley Conant Whitman Reid Seavey Hazard Nichols Abercrombie
Carven Akers Stewart Collins Poteat Fisk Carpenter Whitaker
Church Peterson

Leaders

Percy Wolcott Carr, '18
John Robinson Poteat, '18

Glee Club

First Tenors

Ralph Pidgin Abercrombie, '20
Kenneth Fellows Akers, '20
Earl Preston Collins, '18
John Merrill Hanley, '18
Harold Victor Seavey, 2nd, '20
Chester Cameron Stewart, '19

Second Tenors

Christopher Coleman Carven, '21
Philip Brooks Craighead, '18
Karl Jetter, '21
Harry Howland Fisk, '19
Gannett Hartle Porter, '18

First Basses

Alan Wollison Burke, '20
Donald Woodworth Curry, '21
Alfred Hocking Fletcher, '21
Arthur Warren Norton, '21
Alfred William Peterson, '20
John Robinson Poteat, '18
Bruce Falconer Rogers, '21
Edmund Spurr Whitman, '21
Murray Morrison Whitaker, '20
John Duhme Wimmer, '20

Second Basses

Donald Fell Carpenter, '21
Laurence Wickes Conant, '21
John Wheeler Church, '21
William Hugh Turner, '18
Hobart Oakes Davidson, '20
Milford Phillips Graham, '21
Henry Batchelder Prescott, '20

GLEE CLUB QUARTET

Hobart Oakes Davidson, '20
John Robinson Poteat, '18
Philip Brooks Craighead, '18
Chester Cameron Stewart, '19

SOLOIST

Edwin Albert Ekdahl, '16

ACCOMPANISTS

Earl Preston Collins, '18
Bernard Simpson Cohen, '19

READER

Laurence Wickes Conant, '21

XYLOPHONE

Carleton Treat Proctor, 20

MANDOLIN CLUB



Gray Insley Wiswall Bugbee Webber Coachman Morrison
McLaughlin Akers Wilson Hackett Burroughs Blood Landis Chambers Leland
Gilbert Ford Hotchkin Merryweather Shultz Dalton Harrington Siegfried

Leaders . . . . . Edwin Chester Shultz, '19; Wilhelm Theodor Hedlund, '20

Assistant Leader . . . . . Weir Orford Merryweather, '20

First Mandolins

Kenneth Fellows Akers, '20 — James Rowland Hotchkin, '20 — Gordon Messinger Leland, '21
Elliott Dean Harrington, '18 — Donald Butler Kimball, '20 — Donald Wolf Randolph, '21
Edwin Chester Shultz, '19 — Robert Hawley Wells, '19

Second Mandolins

Roderic Miller Blood, '19 — Robert Prescott Hackett, '19 — Weir Orford Merryweather, '20
Harland Alexander Gray, '20 — George Edward McLaughlin, '18 — Julian Taylor Webber, '21
George Henry Wiswall, Jr., '19

Third Mandolins

Malcolm Sturtevant Burroughs, '20 — Ivan Fleming Chambers, '21 — Robert Insley, '19
Henry Neuman Landis, '21 — William Wyer, '18

Guitars

Nino Tesher Catlin, '18 — Kendrick Powell Coachman, '20 — Frederick Leslie Ford, '17
Edwin Mongan McNally, '18 — Rudolph Siegfried, '21

Mandola
Ellsworth MacNaull Wilson, '21

Mando-'Cello
Ralph Hallett Gilbert, '19

'Cello
Harold Bugbee, '20

Violin
Wilhelm Theodor Hedlund, '20

"Duet"
Du — Elliott Dean Harrington, '18
Et — John Sharples Coldwell, '19

THE BANJO CLUB



Wiswall Gray Saunders Levin Collins Morrison Insley H. Bugbee Shultz Hotchkin Harrington Webber Blood Davis Wilson McLaughlin Leland L. Bugbee

Leader

Elliott Dean Harrington, '18

Assistant Leader

Roderic Miller Blood, '19

First Banjos

Malcolm Sturtevant Burroughs, '20
Albert Saunders, '18
Elliott Dean Harrington, '18
Ellsworth MacNaull Wilson, '21
James Rowland Hotchkin, '21
William Wyer, '18

Second Banjos

Roderic Miller Blood, '19
Harold Lester Levin, '21
Raymond Edward Davis, '20
Robert Fletcher Morrison, '19
Robert Insley, '19
Julian Taylor Webber, '21

Third Banjos

Lucian Willis Bugbee, Jr., '21
George Edward McLaughlin, '18
Ralph Hallett Gilbert, '19
Oscar Frederic Neitzke, '21
Merrill B. Knox, '20
George Henry Wiswall, Jr., '19

'Cello

Harold Bugbee, '20

Violin

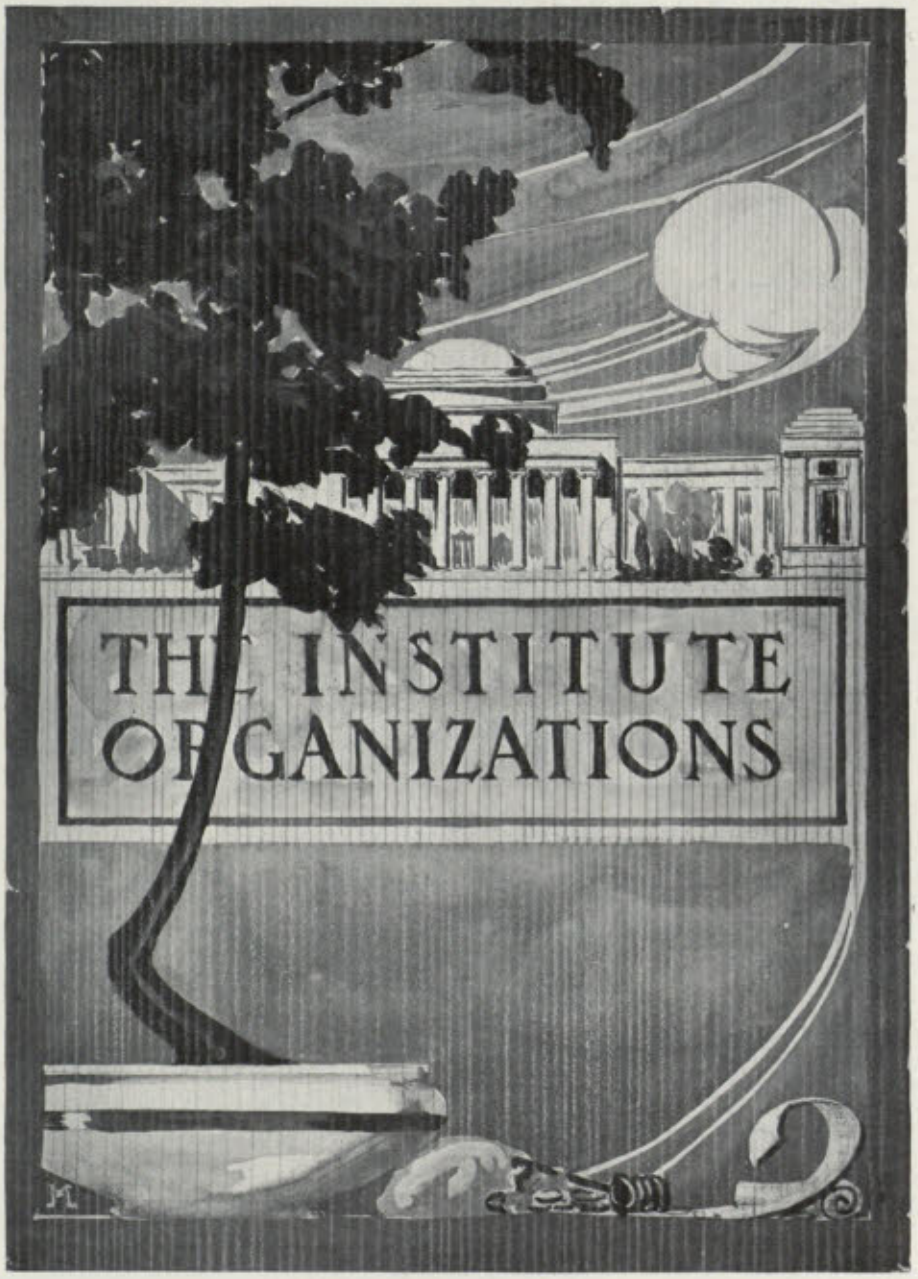
Wilhelm Theodor Hedlund, '20

Drums and Xylophone

Carleton Treat Proctor, '20

Accompanist

Earl Preston Collins, '18


THE INSTITUTE
OF GANIZATIONS

THE CADET~CORPS

Commandant . . . . . Major Edwin T. Cole, U.S.A., Retired
Assistant Commandant . . . . . Cadet Colonel Leicester F. Hamilton

Cadet Officers . . . . . Colonel Harold E. Collins
Lieutenant-Colonel Arthur S. Johnson
Regimental Adjutant Elmer E. Legge

First Term

FIRST BATTALION

Major . . . . . William L. Collins
Battalion Adjutant . . . . . Frederick C. Bowditch, Jr.

COMPANY A. *Captain*	E. R. Harrall	COMPANY C. *Captain*	A. L. Saunders
1st Lieutenant	J. A. Farrer, Jr.	*1st Lieutenant*	P. B. Craighead
2nd Lieutenant	R. P. Abercrombie	*2nd Lieutenant*	E. P. Whitehead
1st Sergeant	J. D. Crosby	*1st Sergeant*	W. Adams
COMPANY B. *Captain*	H. L. Gleason	COMPANY D. *Captain*	D. O. Mayer
1st Lieutenant	P. B. Culbertson	*1st Lieutenant*	L. A. Kelley
2nd Lieutenant	H. V. Seavey	*2nd Lieutenant*	H. W. Bibber
1st Sergeant	W. D. Gundry	*1st Sergeant*	A. W. Norton

SECOND BATTALION

Major . . . . . Frederick A. Lane
Battalion Adjutant . . . . . Lauren B. Hitchcock

COMPANY E. *Captain*	A. J. Giuranovitch	COMPANY G. *Captain*	J. E. Cannell
1st Lieutenant	R. H. Gilbert	*1st Lieutenant*	J. A. Kelley
2nd Lieutenant	C. D. Carleton	*2nd Lieutenant*	W. B. Miller
1st Sergeant	R. J. Officer	*1st Sergeant*	J. B. Starkweather
COMPANY F. *Captain*	W. R. McKenney	COMPANY H. *Captain*	F. P. Reynolds
1st Lieutenant	C. A. Chayne	*1st Lieutenant*	M. H. Taylor
2nd Lieutenant	M. H. Lee	*2nd Lieutenant*	A. H. Radasch
1st Sergeant	P. L. Hanson	*1st Sergeant*	E. Merrill

Second Term

FIRST BATTALION

Major . . . . . Arthur J. Giuranovitch
Battalion Adjutant . . . . . James H. Scott

COMPANY A. *Captain*	C. A. Chayne	COMPANY C. *Captain*	L. A. Kelley
1st Lieutenant	E. P. Whitehead	*1st Lieutenant*	K. B. White
2nd Lieutenant	A. W. Joslin	*2nd Lieutenant*	R. P. Warriner
1st Sergeant	J. B. Starkweather	*1st Sergeant*	P. L. Hanson
COMPANY B. *Captain*	W. B. Miller	COMPANY D. *Captain*	R. H. Gilbert
1st Lieutenant	H. W. Bibber	*1st Lieutenant*	P. W. Blye
2nd Lieutenant	F. W. Lawton	*2nd Lieutenant*	R. W. Tirrell
1st Sergeant	W. Adams	*1st Sergeant*	A. W. Norton

SECOND BATTALION

Major . . . . . William L. Collins
Battalion Adjutant . . . . . John A. Farrer, Jr.

COMPANY E. *Captain*	C. C. Stewart	COMPANY G. *Captain*	J. T. Norton
1st Lieutenant	H. J. Daube	*1st Lieutenant*	J. A. Farrar
2nd Lieutenant	M. H. Lee	*2nd Lieutenant*	C. W. Duffy
1st Sergeant	E. Merrill	*1st Sergeant*	J. D. Crosby
COMPANY F. *Captain*	S. A. McGregory	COMPANY H. *Captain*	A. L. Saunders
1st Lieutenant	M. H. Taylor	*1st Lieutenant*	R. W. Gleason
2nd Lieutenant	T. F. Harvey	*2nd Lieutenant*	L. B. Hitchcock
1st Sergeant	R. J. Officer	*1st Sergeant*	W. T. Gundry

THIRD BATTALION

Major . . . . . Frederick A. Lane
Battalion Adjutant . . . . . Francis B. Culbertson

COMPANY I. *Captain*	E. R. Harrall	COMPANY K. *Captain*	W. R. McKenney
1st Lieutenant	A. H. Radasch	*1st Lieutenant*	P. B. Culbertson
2nd Lieutenant	J. W. Logan	*2nd Lieutenant*	A. W. Miller
1st Sergeant	W. D. Morrisson	*1st Sergeant*	P. Pratt

ELECTORAL COMMITTEE



For Technique 1919

Chairman
Edward Francis Deacon

Vice-Chairman
Webster Batcheller Shippey

Secretary-Treasurer
James Ward Reis, Jr.

MEMBERS

Marshall Coulter Balfour
Frederick Waldo Barney
Roderic Leslie Bent
Frederick William Boley
Céleste Johnson Brennan
Malcolm Cotton Brown
Oswald Cammann, Jr.
John Sharples Coldwell
Laurance Melvin Dalton
*Guy Hammett Davis
Edward Francis Deacon
George Franklin French
*Arlo Ellsworth Garnsey
James Wallace Gibson
*Arthur Ernest Griffin
Norwood Paxton Johnston
Donald Wentworth Kitchin
George Clyde McCarten
*Howard Hale McClintic, Jr.
Alex. Morrison McMorran
David Oscar Mayer
Arthur Ellsworth Page
Charles Jewett Parsons
Paul Desnoyers Peltier
William Pinkney, Jr.
James Ward Reis, Jr.
John Lawrence Riegel
David Curtis Sanford, Jr.
Webster Batcheller Shippey
Donald Dickinson Way
George Henry Wiswall, Jr.
Kenneth Andrews Wright

For Technique 1920

Chairman
Edwin Delamater Ryer

Vice-Chairman
John William Kellar

Secretary-Treasurer
Florence Fogler

MEMBERS

Norris Greenleaf Abbott, Jr.
*Ralph Pidgin Abercrombie
Kenneth Fellows Akers
*Prentice Durfey Ash
John Clement Barker
Theodore William Bossert
Laurence Elbridge Boyden
Malcolm Sturtevant Burroughs
George Henry Burt
Batholomew Francis Casey
Warren Louis Cofren
Norman Putnam Dana
Charles Wesley Eaton
Florence Fogler
George Frank Gokey, Jr.
John William Kellar
Hubert Kolle Krantz
Victor Nason Kruse
William Kennedy MacMahon
George Roger McNear
Walter Lawrence Winant
Weir Orford Merryweather
Oliver Adams Mills
Roger Gambee Mosscrop
John Crandon Nash
Robert Theodore Pender
Edwin Delamater Ryer
Oscar Buzzell Sias
Carleton Hart Talcott
Irving Harrison Wilson
Leland David Wilson

* Resigned

SOCIETY OF ARTS

THIS is a department of the Institute which is especially devoted to general dissemination of scientific knowledge. It aims to awaken and maintain an interest in the recent advances and practical applications of the sciences. During the last two years, instead of the lectures previously given, popular experimental lectures on science have been held for the pupils of high and preparatory schools of Boston and vicinity. The equipment of the Institute has been available, and members of the Instructing Staff have lectured as well as teachers from other schools. While it is expected that pupils who are studying science may benefit more than others from these lectures, a knowledge of science has not been assumed by the lecturers. The purpose of these lectures has been to provoke an interest in science among the pupils of the secondary schools.

President
Richard Cockburn Maclaurin

Secretary
Walter Humphreys

Corporation Committee on the Society of Arts
Francis H. Williams
Howard A. Carson
Hiram F. Mills
Harry J. Carlson

ALUMNI ASSOCIATION



OFFICERS OF THE ASSOCIATION

President	Henry A. Morss, 1893
Vice-Presidents	Morris Knowles, 1891 Van Rensselaer Lansingh, 1898 Hollis Godfrey, 1898
Secretary-Treasurer	Walter Humphreys, 1897

Executive Committee

The President, Vice-Presidents and Secretary-Treasurer

George L. Gilmore, 1890
Grosvenor D'W. Marcy, 1905
Orville B. Denison, 1911
Charles R. Main, 1909

Class Secretaries

1868 Robert H. Richards
1869 ——
1870 Charles R. Cross
1871 Edward W. Rollins
1872 C. Frank Allen
1873 Samuel E. Tinkham
1874 Charles F. Reed
1875 Edward A. W. Hammatt
1876 John R. Freeman
1877 Richard A. Hale
1878 E. P. Collier
1879 Charles S. Gooding
1880 George H. Barton
1881 Frank E. Came
1882 Walter B. Snow
1883 Harvey S. Chase
1884 Harry W. Tyler
1885 I. W. Litchfield
1886 Arthur G. Robbins
1887 Edward G. Thomas
1888 William G. Snow
1889 Walter H. Kilham
1890 George L. Gilmore
1891 Fred A. Wilson
1892 George H. Ingraham
1893 Frederic H. Fay
1894 Samuel C. Prescott
1895 Winthrop D. Parker
1896 Charles E. Locke
1897 John A. Collins, Jr.
1898 A. A. Blanchard
1899 W. Malcolm Corse
1900 Ingersoll Bowditch
1901 Robert L. Williams
1902 Frederick H. Hunter
1903 Myron H. Clark
1904 Henry W. Stevens
1905 Grosvenor DeW. Marcy
1906 C. F. W. Wetterer
1907 Bryant Nichols
1908 Rudolph B. Weiler
1909 Charles R. Main
1910 Dudley Clapp
1911 Orville B. Denison
1912 John E. Whittlesey
1913 Frederick D. Murdock
1914 Cornelius J. Callahan
1915 William B. Spencer
1916 James M. Evans
1917 Walter L. Medding

Representatives in Paris at the American University Union

8 Rue de Richelieu, Paris, France

Van Rensselaer Lansingh, 1898
George Crocker Gibbs, 1900

TECHNOLOGY CHRISTIAN ASSOCIATION

Organized to supplement technical training with character building



Rounds Brewer Gustaveson

THE work of the Association has been somewhat limited this year by the war. By the beginning of the second term all of its officers were in the Service; its secretary had given four months to Y. M. C. A. War work; and out of twenty-eight committee chairmen, but five were left. In spite of these handicaps, however, the most important features of the Association's work were maintained with the usual efficiency. The freshman advisory work, and similar work for the first-year men, was especially well done. A very much improved "Tech Bible" was published, mailed to the freshmen before their arrival, and distributed to all upper-classmen and instructing staff at the beginning of the year. A list of recommended rooming houses was published, and a rooming-house bureau maintained during opening days.

The freshman discussion groups,. led by some of the most prominent upper-classmen in the Institute, were attended by one hundred and eighty freshmen, and were a pronounced success. The Book Exchange provided a very useful

medium through which students sold their old books. The turn-over for the year amounted to eight hundred and eighteen dollars, representing an approximate saving to the students of two hundred and fifty dollars.

A special feature of the work this year was the Y. M. C. A. War Fund Campaign, which the Association inaugurated. The loyal support of the Institute Committee, Faculty, and President made this a great success, and over eight thousand dollars was raised for the important work.

OFFICERS

President
George S. Brewer, '18

Vice-President
*Alexander G. MacAlister, '18

Secretary
Arthur G. Cushman

Treasurer
*Edward W. Rounds, '17

Acting Assistant Secretary
John W. Gustaveson, '18

DEPARTMENTS

Student Service	
Chairman	*George A. Irwin, '19
Freshman Advisers	Robert W. Van Kirk, Jr., '18
Employment Bureau	George S. Brewer, '18
Army and Navy	John H. Tipton, '18
Book Exchange	John W. Gustaveson, '18
Information Bureau	*Stanley H. Franklin, '18
Foreign Students	James E. Longley, '18
Rooms Investigation	Stuart M. Boyd, '18
Community Service	
Chairman	*Alexander G. MacAlister, '18
Industrial Service	*Horace M. Guilbert, '18
Boys' Work	John W. Gustaveson, '18
Religious Education	
Chairman	*John M. DeBell, '17
Freshmen Discussion Groups	Marshall C. Balfour, '19
Church Coöperation	Donald C. Stockbarger, '19
Volunteer Band	*Alfred A. Johns, '19
Business Administration	
Chairman	*Edward W. Rounds, '17
Assistant Treasurer	George R. Bond, Jr., '19
"Tech Bible"	
Business Manager	Charles C. Carpenter, '18
Editor-in-chief	Dean K. Webster, Jr., '19
Office Committee	*George S. Murray, '18
Promotion Committee	
Chairman	**Peter M. Strang, '18
Fraternities and Dormitories	**Julian M. Avery, '18
Roomers and Commuters	*Walter T. Biggar, '18
Freshmen	*Ben M. Greeley, Jr., '18
	Maurice E. Goodridge, '19

* In National Service.

** Resigned

DORMITORY COMMITTEE



Dormitory Committee

Chairman
William Wyer

Secretary
James Edward Longley

Treasurer
†Challen Morton Beattie
Richard Rimbach

MEMBERS

ATKINSON

*Challen Morton Beattie, '18
Harold Jack Daube, '19
Creighton Boyd Stanwood, '20
†Robert Laird Turner, '20
Edwin Theodore Steffian, '21

HOLMAN

*Richard Rimbach, '18
†Norman Douglas Conniers, '19
Edward Millard Howard, '19
Murray Morrison Whitaker, '20
Joseph Henri Bayle, '21

NICHOLS

*Hugo Paul Geisler, '18
Robert Insley, '19
†John Ogden Merrill, '19
†Bartholomew Francis Casey, '20
Robert Theodore Pender, '20
†Clark Doane Greene, '21
Joel Demetrius Harvey, '21

RUNKLE

*James Edward Longley, '18
Donald Butler Kimball, '19
Roswell Augustus Merritt, '20
†John Sherman Visscher, '20
Robert Kelley Thulman, '21

* House Representatives.

† Resigned.


GRIESEMER
KLINE
CAHILL
-TECH UNIT-
"DINS"
MILLIKEN
REED
FRANCE 1917
ELY
BRADFORD
ALLEN
HALL


GRINDS



HERE WE are
AT THE last hole
AND WE'VE got to tee off
WITH something snappy
THAT BEING the case
SUPPOSE we make



BUT IF not
WE'D LIKE to remark
THAT WE'VE had more fun
IN DOING these
THAN YOU will have
IN READING them
AND perhaps
YOU WON'T agree
WITH OUR idea
OF A good time

JUST THE same
YOU NEVER can tell
YOU MAY find an idea
OF YOUR own
SO EVEN if
YOU'RE one of them
DON'T turn your
BACK to the Grinds

AND THEN again
YEARS hence
WHEN YOU'RE dressing
the part
OF AN engineer
AND WEAR blueprints



A BROMIDIC reference
TO HOW HARD we work
AT TECH
AND say
THAT SUNDAY is called
THE DAY of rest
BECAUSE we work
LIKE Avernus
SIX days a week
AND DO the rest on Sunday
AND WHEN you've read
this far
IF YOU'VE work to do
MAYBE you'd better turn
BACK to the Grind



IN YOUR hip-pocket
AND YOU'RE efficient
AND THE only thing
YOU DON'T do
WITH A slip-stick
IS BRUSH your teeth
AND YOU smoke
AND swear
AND everything
AND YOU want to find
THE INTRINSIC brilliance
OF AN idea
THEN IT'S your turn
BACK to the Grinds

At Last — The Real Tech Song

(Verses sung by Miss Leone Morgan in "Love o' Mike," Tech Night at Ye Wilbur)

I

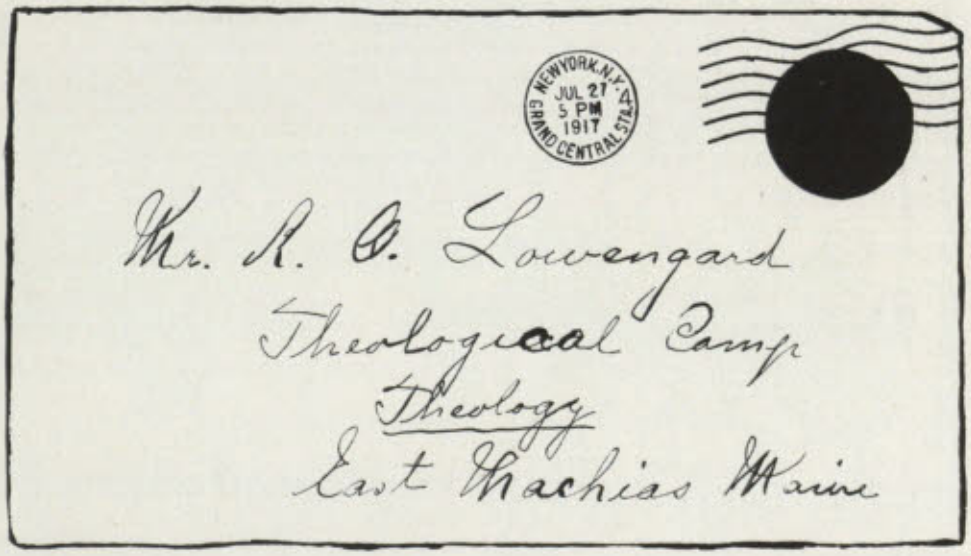
I wonder why it is when I have paid my fee
That Bursar Ford just sends another bill to me.
I 've paid my last cent down for board,
And for my lab. dues trust the Lord,
Still I get bills signed, "H. S. Ford."
I wonder why!

II

I wonder why it is Doc. Phillips goes to sleep,
And why it is that Charlie Cross can hardly peep;
And Charlie Parsons is so shy,
And Shorty Carr so very high,
So very cheerful Doctor Tyler — wonder why.

III

I wonder how Dean Burton gets his dope on me;
The way he works is very much a mystery.
And when I think I 'm getting by
He says, "One Monday last July
You were in Healy's on the sly.
I wonder why!"



WISWALL (*compiling the Societies Section*): "Now, how the hell are we to dope out these Chinese names in writing?"

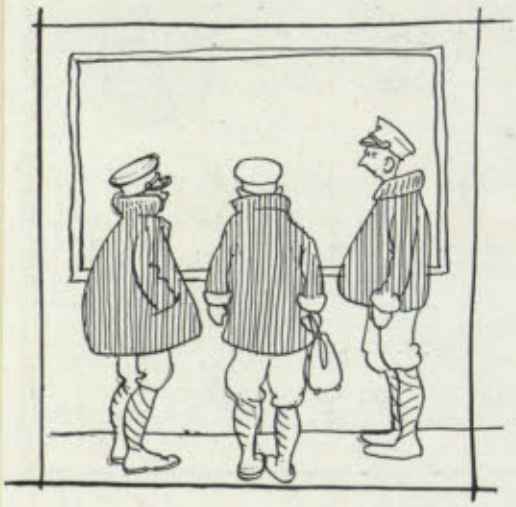
Here are the Words: Write Your Own Music

I

How well do I remember
These days beyond recall —
We drank our fill
Of good and ill
When the Q. A. mill
Was run by Bill.
We had such fun and laughter
With Ethyl Alchohol.
She was almost pure,
(But you were n't quite sure)
On the good ship, "Treadwell-Hall."

II

We had a Jones reductor,
'T was slender, straight, and tall;
'T was filled to the brink
With chunks of zinc,
And hitched to the sink —
Now what do you think?
Sometimes I 'd knock it over,
And then I 'd almost bawl
To think I 'd pickled my results
On the good ship, "Treadwell-Hall."



THE ORDER OF THE DAY
No Drill

III

A stude had two fine crucibles
Of platinum, and small;
He cleansed them well
With HCl;
It raised a smell;
('T was simply hell);
But the chappie in the stock room
(I envy him his gall),
Said, "Take 'em back and clean 'em up,"
On the good ship, "Treadwell-Hall."

IV

Another man did Spathic
He ground it fine and small.
He boiled the ore
With stuff galore,
Then in did pour
A whole lot more.
Along came Skipper William,
Quoth he, "I fear a squall."
And then the dog-goned thing blew up
On the good ship, "Treadwell-Hall."

V

Distinctly I remember
The final day of all;
Some silly ass
Had loads of glass
(That looked first-class,
But could n't pass).
Each man picked out a missile.
The umpire said, "Play ball!"
And soon there was a heluva mess
On the good ship, "Treadwell-Hall."

One Way of Looking at it

A STUDE'S ANSWER. "A substance which contains carbon, hydrogen, and oxygen in the proportion to form water is a carnivorous substance."


DONT BE IN DOUBT.
CONSULT THIS PAGE AND CHOOSE YOUR ACTIVITY.
THE GLEE CLUB
HAVE YOU A DRESS SUIT?
DO YOU GO IN FOR HIGH NOTES, AND TREMPIES, AND LUCIA LAMMERMORE, AND COMBINATION CONCERTS WITH WELLESLEY, AND DO YOU SING "DARLING, I AM GROWING OLD," AND BUY GALLERY SEATS FOR THE SYMPHONY? THE GLEE CLUBS ARE CALLING YOU.
THE TECH
ARE YOU ALWAYS RUSHED?
DO YOU LIKE A WIRE BASKET ON YOUR DESK AND COPY AND PRINTERS' INK, AND DELAYED ISSUES AND NIFTY STENOGS. CAN YOU FIND FAULT WITH THE MONTHLY, AND TELEPHONE WILDLY ABOUT NOTHING. IF YOU CAN, YOU ARE WANTED IMMEDIATELY BY THE TECH.
THE TECH MONTHLY
ARE YOU AN EARNEST SOUL?
THE INDIVIDUAL WHO JUST LOVES PETITIONS AND WHO BELONGS TO THE T.C.A. AND TO THE W.C.T.U. (MEN'S AUXILIARY), WHO TAKES HIS STUDIES SERIOUSLY, AND SUBSCRIBES TO THE NEW REPUBLIC, AND CARRIES LOTS OF BOOKS... IF YOU'RE THIS KIND OF A MAN YOU WILL FIND YOUR PLACE ON THE "MONTHLY"
THE SOOP
HAVE YOU A KEEN SENSE OF HUMA?
ARE YOU SUDDENLY SIEZED WITH BRILLIANT IDEAS FOR CLEVER CUTTING CARTOONS? CAN YOU WRITE SUBTLY SARCASTIC SEARING CRITICISMS OF FACULTY FOGIES? HAVE YOU AN OVERPOWERING IMPULSE TO CREATE VERS LIBRE. THERE IS ROOM FOR YOU ON THAT INIMITABLE MONTHLY-THE WOOP
DOES YOUR SOUL CRAVE FREEDOM
DO YOU YEARN TO EXPRESS YOURSELF RHYTHMICALLY? ARE YOU THE MAN WHO DANCES OUT ON THE LAWN IN A FILMY VEIL AND A HELEN MOLLER NONCHALANCE? DO YOU ADORE MIDNIGHT TRAINS FROM NORTHAMPTON AND BAGGAGE RACKS? DO YOU? IF YOU DO... JOIN THE SHOW.
ARE YOU ROBUST?
ARE YOU THE KIND OF PERSON WHO LIKES COLD SHOWERS, AND PHYSICAL CULTURE MAGAZINES, AND DOUGLAS FAIRBANKS, WHO DRINKS BEVO, AND TAKES LONG WALKS, AND DOES CALISTHENICS EVERY NIGHT, AND EATS BIG DINNERS, AND BELONGS TO THE FAT MANS CLUB, AND HAS A BULLDOG GRIP? IF YOU ARE IT SEE FRANK KANALY.
IV
ARE YOU STRONG ON THE BOHEMIAN?
DO YOU LOVE BURLAP SMOCKS, AND CIGARETTE STUBS, AND MODELLING CLASS, AND STRINGY SPAGHETTI AT HAYES, AND DARK BEER WITH LOTS OF FOAM, AND GIRLS WITH DUTCH CLIP, AND SEPIA MONOTYPES, AND MINOAN VASES, AND LONG HAIR, AND LETAROUILLY, AND WHISTLER, AND OH WELL—ART? IF YOU DO, GO OUT FOR COURSE IV... THE BEST ACTIVITY IN THE INSTITUTE.
ARE YOU HOT FOR SOCIETY?
THE SORT OF LAD WHO LOVES TEA DANCES, AND SOCIAL REGISTERS, AND RIDING CLOTHES AND CLUBS AND FRATERNITIES AND CLARET SAUCE, AND SPATS AND WRIST WATCHES, A CHAP WHO KNOWS WHAT'S WHAT IN SPORT SHIRTS AND CHAMOIS GLOVES... IF YOU'RE THAT KIND OF A MAN, GO OUT FOR CLASS PRESIDENT.



TECHNIQUE v.s. THE TECH

TECHNIQUE AGAIN WINS FROM NEWSIES 6-0 VICTORY

The Metric System in Poetry

I often think how nice 't would be
To measure verse — both rhymed and free —
And gauge a poem by quantity
As well as qualitatively,
By methods used for other gas,
A meter, through which poems pass.
Then fix the unit metric rate
On cubic content, not on weight;
It follows, the pedantic grind,
Who from his reading wants to find
How much of gas produces light,
Has but to read the meter right.

Afterthought

And then whenever Rogers drools
A Fantasy for modern schools
We 'll know, by metric cubic feet,
If it be worth two bones per seat.

A Gathering of Fruits

It was at the ninth hour, and the students were sitting at the feet of *Demijohn*, the Master. Dun mist was upon the bosom of the Basin, shrouding the city. The Uncle Dudley cars toiled slowly across the bridge and became formless in the beyond . . .

Fjish, a disciple, said: "Sahib, the hour of reckoning draws near, and we would that thou tell us what is acceptable in the last judgment."

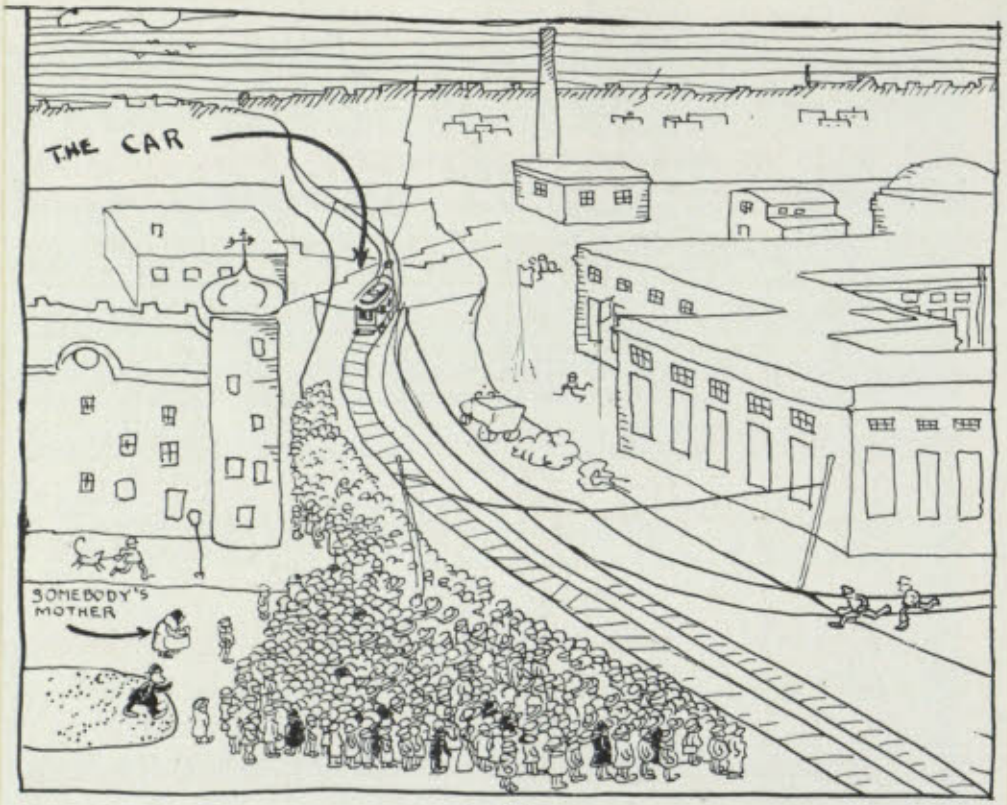
In the hushed stillness the febrile note of the ham-toed ostrich trilled across the interim. The master cast a languid gaze upon the youth. He was a Sikh — a very Sikh — man. Many a questioning mind had unillumined sought to penetrate into his consciousness; but he dwelt ever upon the infinite.

The Ingersolls ticked in unison as *Demijohn* spoke:

"You make me sikh! If you would pass in your work, you might pass in your work."

And the students knew that he had said something.

"HEARERS TRANSPORTED" so lied
The newspaper, saturnine-dyed.
But the admission fee
Was a dollar, you see;
So 't was not an entirely free ride.



A Story

Here's a Real Grind

Oscar tried to get a certain junior to sign up for Technique, and received this reply:

"Maybe I'd get it if it was a dollar; and anyway, I only want one monthly magazine."

"What is your latest crush?"
"The Subway."

PROF. SHERRILL (*referring to distillation*): "Take any two non-miscible liquids; take chloroform and —"

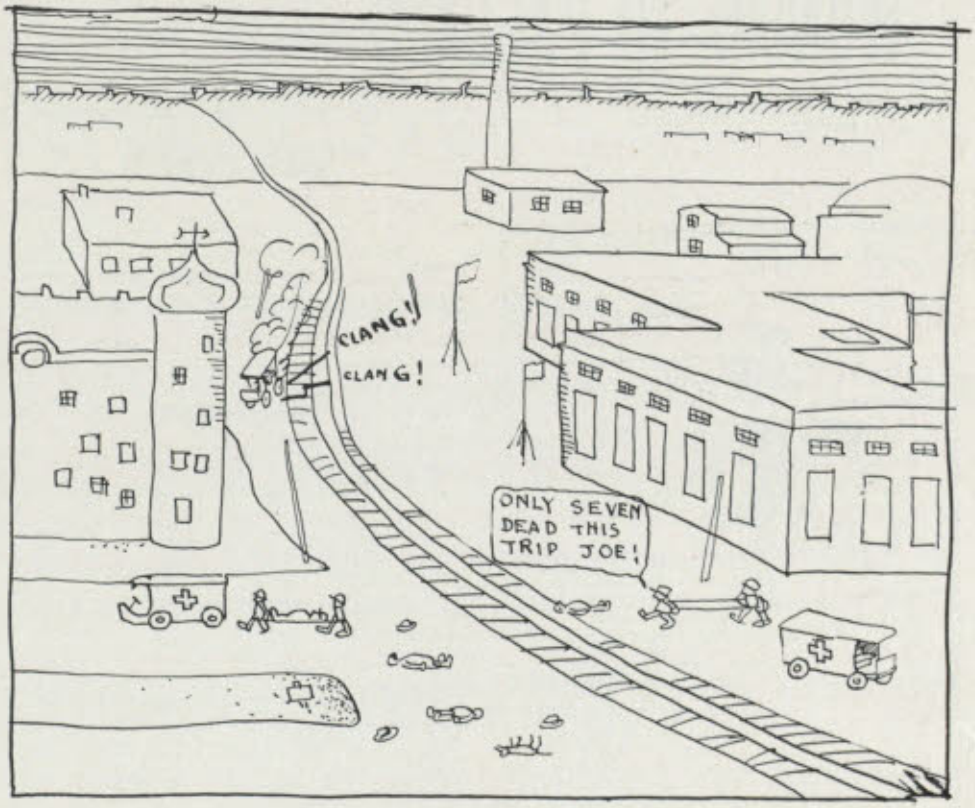
EARLE COLLINS: "I would n't want to take chloroform."

A Technology definition of the height of humor: Anything belittling Harvard.

A Harvard definition of the height of humor: Almost anything concerning Technology.



Without



Words

HE: "How do you know he is a Tech man?"
SHE: "I heard what he said about Harvard."

HARVARD EXAMS FOR MONKEYS

PRIMITIVE LOVE LED WOMAN TO PASSANO

INNOCENT MAN ACCUSED her

Massachusetts
Institute of Technology
Special
Report of Standing

Cambridge ~~Boston~~, Feb. 27, 1918

Mr. W. C. C y

Acoustics & Color 829 and 831 (3) | P



Bill cut every class, and the exam in Acoustics and Color—but some men are naturally bright.

Force of Habit

Professor K., viewing a show,
Said: "This should be censored, you know."
(Remark by a stude,
Who was less of a prude),
"To a Prof. almost everything 's low."

PROF. WHIPPLE (*impressively, in a talk on Russia, referring to the Women's "Battalion of Death"*): "Why, they looked just like the Harvard regiment . . ."

And, to make it right with Harvard, he followed this up with: "That is. you can't tell them from real men."

A. P. C. "There was a fire in the Women's Club yesterday."
R. M. C. "Any men hurt?"



MCTIC: "How do I stand, sir?"
PROF. DEWEY (*who marvels at his ambulatory gyrations*): "I can't imagine."

Fragmentary Lines on Daye's Hairy

In blithe and joyous days of old
There lived in a wood a robber bold
Named Robin Hood, a jovial dub,
Who did rough work with a holly club;
But his merry way is now passé,
His technique wouldn't work today.

The robber's name today is Hayes
Who knows the ways that robbery pays.
He operates a dairy lunch
And holds one up with a ticket punch;
A dime an egg he ne'er repents;
For ten-cent portions, fifteen cents.
For shredded wheat you pawn your watch
And reef your belt another notch;
Then, though your purse is badly bent,
You buy a bun and pay the rent.

If you should ask me which I would
Be robbed in — Hayes', or robbed in Hood's,
I could not answer, for, you see,
It makes no difference to me.



To—

When I was one-and-twenty
And you were just sixteen —
Ah, then, was joy a-plenty —
I read (I think 't was Henty)
While Louie Derr cast senti-
ments upon the screen;
When I was one-and-twenty,
And you were seat sixteen.

One man, at least, got his degree;
His midyear marks were L L D.

SHE: "I suppose you have many fast friends at your fraternity house."
HE: "Well, some of them *are* a little speedy."

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAMBRIDGE, MASS.

May 16,1917

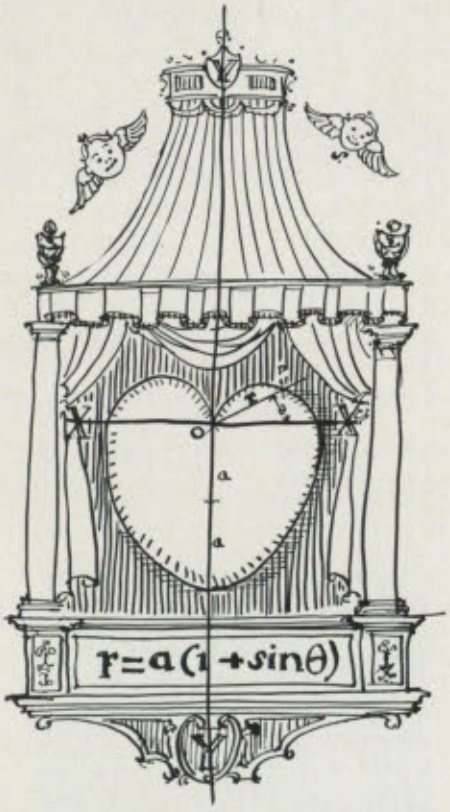
Managing Editor
The Tech
Cambridge, Mass

Dear Sir:

I have in my office the photograph of a small child from the inside of a watch case. As this appears to be of sentimental value, will you kindly run an article in your columns stating that the owner may obtain the photograph at my office.

Very truly yours,
H.E. Rogers

Thanks for the article; but how about the watch? Man. Ed.



The Heartioid

(All rights, including the Scandinavian)

It has been well said that you can't get ahead of a technical education. In fact it is about as much as most of us can do to keep up with it. Those of us who are only batting about so-so are always eager to seize upon any opportunity to apply some of our technical encumbrances to concrete cases, and the number of uses one can find for, say, mathematics, is really surprising. And when one gets "out in the world" among the "men who do" — and some who don't — one finds oneself fortified with the consoling thought that knowledge is power.

Appended herewith is a graphic representation of the course of true love, which, according to popular acceptance, never runs smooth (bad grammar). We never took the course, but it is a very popular one, and some men major it. Approaching the problem in the scientific spirit and with the scientific method, we may be able to dope it out even without the aid of a handbook.

Resolved into its elements the problem becomes absurdly simple. In the first place we must establish polar coördinates with the point O as origin. This requires no great enterprise, and an establishment of this kind is quite easy to maintain. The logical thing now is to assume an initial line through O, for convenience horizontal. This is as far as one can be arbitrary; beyond this point one can't be too careful, and results should be carried to three significant figures.

We have the equation: $r = a(1+\sin\theta)$*, from which we obtain a conventionalized picture of the seat of the emotions which may be defined as the curve (*go slowly around curve in the second and third quadrants*) admirably described by a point P in the circumference of a circle of diameter a, as it rolls upon an equal fixed circle. Here is the key to the situation: θ is the angle of osculation; a the constant of affection; and r is how far one can go — and get away with it (being a function of the angle theta measured in radians, if that means anything to you). Now of course in traveling from $\theta = \theta = 0$ to $\theta = 2\pi$ one returns to one's starting point; but what of that? Commence all over and go to 4π and again to 6π and so on, *ad infinitum*.

And there you are! Not wishing to be guilty of any indiscretion, we will not develop the matter exhaustively, although anyone with half a wit can readily see that the above is the baldest sort of an outline. The idea has unlimited possibilities. For instance, r can be made almost any absolute value, dependent upon the scale at which one works. Or, r may be increased by a given increase in the constant of affection a. Then, again — but no! Let it go at that. The rest is left to your imagination on a rainy afternoon, neatly done, as in vers libre, by three full stops, viz: . . .

* Reverse sign convention



TECH NIGHT
(After Field Day)

HE: "I'm afraid that if we run the dance after twelve the lights will be turned off."
SHE: "Well——"

PROFESSOR ARMSTRONG (*referring to timely economic problem*): "Has anyone in the class a morning paper?"

It seemed that nobody had one.

"I must be getting interesting; I 've never known a class to be so ill equipped with reading matter."

Registration

The waiting in line
The "material"
The cryptic tabular view
The 1001 autographs
The conflict
The consultation
The impossible schedule
The dropping Tripple E
The free afternoons. Oh, boy!
The material amassed
The waiting in line
" " " "
The inspection
The omission
The blasphemous retirement
The rectification
The waiting in line
The oversight
The dropping out of line
The alterations
The conflict
The dropping Applied
The revised data
The waiting in line
The O. K. The little Card
The paying tuition
The waiting in line
The office closes
The following day. The waiting in line
The tuition fee. The punched card
The utter exhaustion
The Lenox

MINER: "Professor Warren, how did you acquire all these minerals?"

PROFESSOR WARREN: "Well, I bought some, some were sent to me, and walking through museums I picked up the rest."

Customary Lines to Spring

(The open season for spring poets is now on)

Oh, spring is a most effective thing!
'T is potent as a charm.
The covers from the hay I fling,
And drown that cussed ting-a-ling,
And then proceed to wind the spring
That rings my loud alarm.

Chorus

Spring, spring, beautiful spring.
(I 'm a heluva good sonneteer)
An alarm-clock spring is a wonderful thing,
(And it seems rather early this year).
(Dance).



"BILL"



TECH NIGHT
(After Any Other Day)

The Janiteer
(Acknowledgments to Service)

Sez 'e: "Short story, men; it 's almost six.
You 've got to get a move on outa here!
Now what d 'ye mean, you 've lost yer antefix?
It ain't my fault if charette time is near."
Then loudly hear the chorus rise and swell:
"Aw, wot the 'ell, Bill — wot the 'ell?"

It happened on the train returning from Northampton last spring, after the performance there of Tech Show, 1917. Show songs of former years were being sung when someone suddenly commenced whistling the Doxology.

"What 's that?" asked one.

"You poor prune; have n 't you ever heard the Doxology?"

"No; I did n't see last year's show."

H. C. MacLaughlin felt indisposed to write a formal paper in Prof. Rel. midyear exam. Feeling kittenish, he produced this, and passed.

(Ref. Am. Inst. Archts. Blue Book)

Act 1, Scene 2

Enter our hero the Architect,
Who must be legally circumspect.
He 'll never solicit,
E'en though a deficit
His bank roll has totally wreck'd.

Scene 3

Our hero still holds the screen,
But it is n't because he is green.
He can't advertise,
But the dub sure is wise—
He 's just sticking around to be seen.

Scene 4

Doomed to eternal perdition,
Is he of the cut-rate commission;
While the A. I. A.'s rage is
'Gainst him that engages
In any outlaw competition.

Scene 6

This time is to reading assigned,
I 'll skip it, if you do not mind.

Scene 7

And this is given to a test;
My muse receives another rest.

Scene 10

The first thing our hero must do
Is to see that his client is true:
If he thinks there 's a fake,
He reads up in Blake;
It saves him the deuce of a stew.

Scene 11

If the client should seem to be shifty,
Our hero produces a nifty
Form of agreement,
That binds like neat cement,
And splits with his lawyer, fif-fifty.

(Ref. Blake)

Scene 14

(*Discussion of Mr. Blackall's iconoclastic talk before the Architectural Society*)

At last the villain breaks our train
Of thought with ravings wrong and vain,
But without dander
Our Alexander
Soon has the villain foiled again.

(Ref. Blackall and Clapp the I. W. W. and the Bolsheviki)

Scene 15

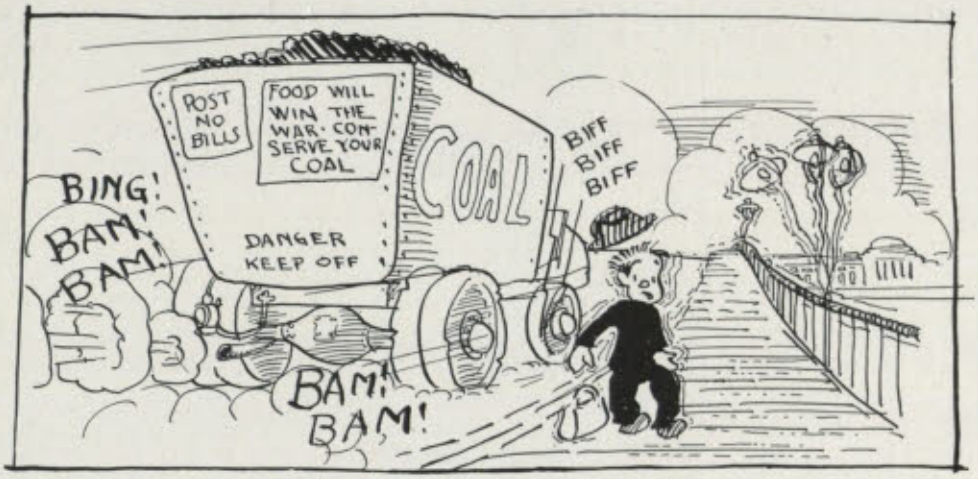
The architect 's service prelim.
Is a bait to enveigle the whim
Of Client prospective,
To sign an effective
Contract to employ only him.

Addenda, et L'envoi

To advertise is the great sin
Of architects; has always been.
They must sit evermore
Like an old cuspidor
Waiting till something drops in.

The above suggests the possibility of romping through a Math. examination in a similar manner:

An equation of lowest degree,
In the variables x, y, and z,
A plane is in space
In every case,
But further than that I 'm at sea.



Life is Vibration:—A phase of Tech Life

Hamilton Boys Members of Advanced Battalion At Boston Tech.

Mr. Thomas Beckett arrived home today from the east where he has been visiting has son, Minor, at Boston Tech. Both young Mr. Beckett and Murray Whitaker, the other Hamilton boy at Boston Tech, are members of the Advanced Battalion, an undergraduate Boston Tech military organization, which has been in training under Major Cole of the United States army, who after three or four more months of intense training, will take them to France.

* * *

Imagine it!

AERO CLUB HOLDS LIVELY MEETING

Lieut. Dost Tells of Swiss Army Life—Prominent Members of the S. A. E. Invited to Address Club

PLAN

Generally speaking: S.A.E.

GRINDS RAISE IRISH RECRUITS

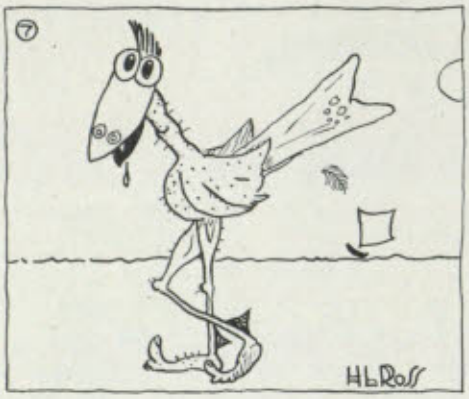
Carlatt Has No Word

-aft Treaty

P.S.:- t of the American- -empting from ser- are legally Brit- -nadian re- -last

Sanford advised to take cover

In one of the special lectures in "Banking and Finance," Mr. Horne, Vice-President of the New Haven Road, was giving an explanation with the aid of a chart. Wishing to have it visible to the class, he essayed to fasten it to the wall, and taking a thumb tack he pressed vigorously against the blackboard. The thumb tack broke. Mr. Horne tried a second and a third time with the same results. Dr. Dewey now advanced to assist. He likewise failed three successive times before it occurred to the gentlemen that the blackboard was made of slate, and was not receiving thumb tacks that afternoon.



The Hypotenuse

A Bird in the Hand is Worth Two in a Pinch (of Salt)

Who first said that a bird may be captured if one but place a modicum of salt upon its tail? Not that we give a care, but it makes a graceful opening line. Now that the ice is broken, we can trot right out with our central thought, our big message: How to get the salt on the tail.

Recently completed research work by Cyril Sumfrute, a very special student, gives us the trick of the whole thing. Breathes there a man who does n't from his freshman chemistry recall that $NaOH+HCl=H_2O+NaCl$ in solution? Evaporating the H_2O, crystallized NaCl remains. Follow closely, now, this is good dope.

Sumfrute's apparatus was as follows: a portion of the bird's tail (Fig. 1); NaOH and HCl (Fig. 2); Bunsen burner (Fig. 3).

Standardization. Dissolve such-and-such a number of grams of NaOH in this or that volume of water. (The commercial product may be used.) Then prepare about so-and-so c.c.'s of HCl solution, which may be standardized thus and so. If the figures do not check on the first trial, you have made a mistake and must allow for it. Find the ratio of NaOH to HCl.[1]

Procedure. Place bird firmly on ring stand, with tail held in burette clamp. From a burette run out an odd number of c.c.'s of HCl [2] and titrate with NaOH solution, using most expensive indicator, until the gray-green solution with the orange tint becomes a pale mauve.[3] Place a burner under the tail and digest at low temperature, keeping it well stirred, not allowing it to spatter.[4] Heat until crystallized precipitate is white (or, if not white, pretend that it is). Check in your apparatus, and hike Hayward.

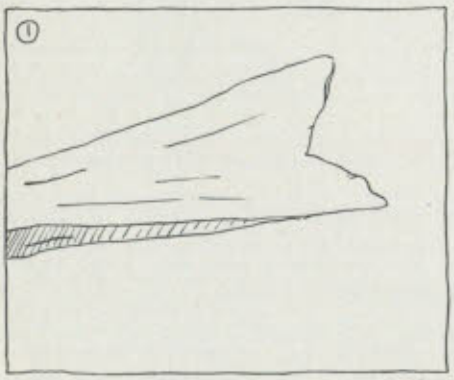
Note. 1. Before using a ratio it should be heated for so long at a temperature of so many degrees. This prevents decolorization, and it is returnable at the supply room. If it should decolorize, find someone else who is using one, and substitute yours for his.

2. An odd number is recommended by Dr. O. U. Boandogme, because he likes it best.

3. If not mauve, any other color will do.

4. For further information, see the "Good Book," by T. and H.

Suggestion. Professor Cyrus Lyttlebrane, in his treatise on this subject advises the addition of 43.68 c.c. of NH_4Cl solution, 3.1416 N. This makes the NaCl less soluble. For $\frac{Na \times Cl}{NaCl} = K$. If some more Cl is added, this makes more NaCl by the Mass. action law. [Made a law *ex post facto per se ad nauseam* by the Mass. Legislature, Feb. 30, '88.]



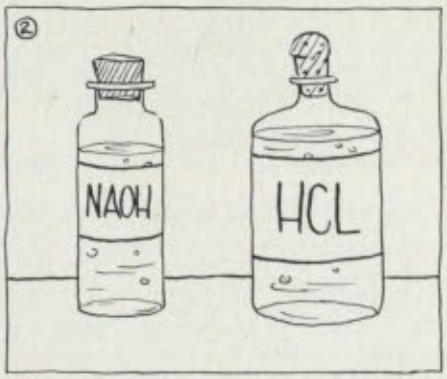


Figure 1. A close-up of a portion of the tail of a full-grown Hypotenuse. To get salt upon the tail of any bird has always been considered to be somewhat difficult of satisfactory accomplishment, but this shows it to be a simple enough matter for the chemical engineer. That 's the great thing about Course X; the men are wide awake to the big movements of the day, and while the use of salt herein treated cannot be said to be an industrial one, yet there is the germ of an idea in it.

Figure 2. NaOH and HCl, the chemicals used in the operation, are shown above in separate bottles. It is the union of these two powerful agents which does the work. The HCl may be placed first on the tail, and the NaOH added; or the NaOH may be first put on, and the titration done with HCl. In delicate matters such as this the chemist must use his judgment.

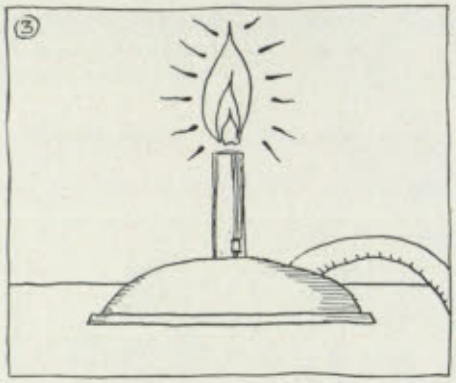
(*Continued on page 376*)

Them Was the Happy Days

Will I ever forget
The good old days
At M. I. T.?
Monday, Tuesday, Wednesday,
Thursday, Friday, Saturday,
Sunday, — and then Monday again, —
Them was the days!

F. O. W. (*dying for a fag*): "I smoke, Bill."

W. B. S. (*lighting up and replacing new package of Camels*): "Don't do it; it's a bad habit."



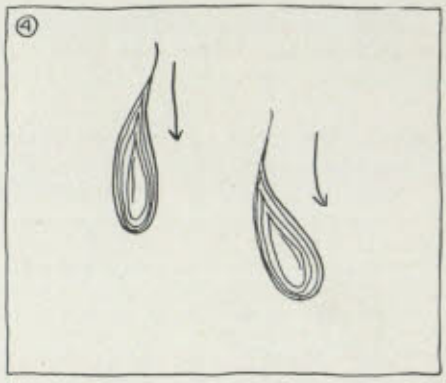
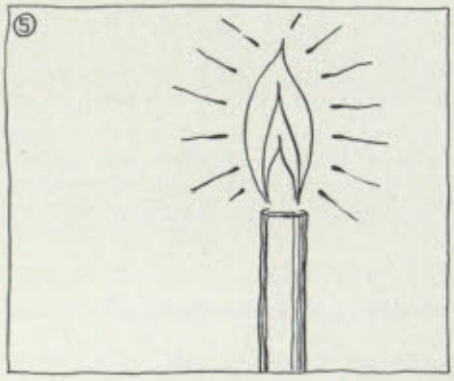


Figure 3. Sketch of the Bunsen burner, with which the H_2O, in which the NaCl is in solution after the titration, is removed by vaporization, and the salt crystallizes out in a most engaging manner. Please do not look at this too long as gas is expensive.

Figure 4. This diagram shows two drops, highly magnified, one of NaOH and the other of HCl, descending upon the tail, which is to be assumed to be beneath the picture. (As cuts are expensive, we can not afford to show the tail more than three times; hence it does not appear in this picture.)



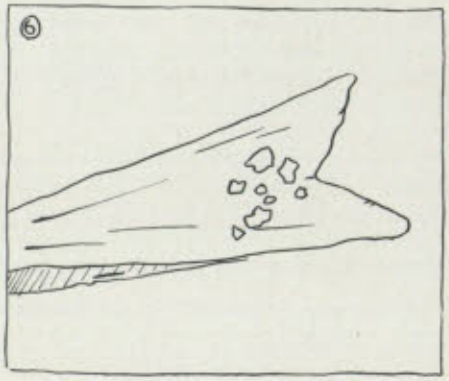


Figure 5. The Bunsen burner in action. (As in the preceding picture, the tail does not appear, and for the same reason.) This is an important part of the process. The tail is above the flame, and if the bird should take offence at the burner (which is of course absurd), and any H_2O were to remain, the results would be valueless.

Figure 6. Here we see the crystallized salt on the tail (Q. E. F.) although it does n't look much like salt in the drawing. This state of things arrived at, the bird is yours, and all that is left now to do is to season with pepper to taste.

Figure 7. And here is the Hypotenuse as it appears when in captivity. Why in the world one should want to catch a bird, such as this, or what one could do with the thing after it had been salted, it is not our province here to enquire into. We need only remark that a bird in season is worth two without seasoning.

MAINE COWS GIVE TECH MEN JOLT

Show Almost Human Intelligence at Military Camp.

Special Despatch to The Journal

Technology, Me., July 8.—Members of the Technology Training Unit, at Camp Cunningham here for the summer, are learning fast. Besides instruction in the manual of arms and everything that goes to make a soldier, they have learned something about Maine cows.

Now, as it happens, there are cows and cows, and then there are Maine cows. The average cow, be it known, will walk right through anything, from a strawberry patch to the Cape Cod canal. Never will the average cow go around. But Maine cows—wait.

Today arms were stacked when a drove of sad-eyed bossies headed armsward.

"There go the stacks," shouted a tired student soldier in disgust.

But, behold, the herd stopped, sniffed, and then, majestically yet indifferently, walked around and continued their march, while five students fainted in sheer surprise.

Outside of this event and a jolly July 4th, camp life to date has been one — drill after another.

Feminine Superiority Is Established at Harvard

A woman has a most anything utante

TECH PLANS 3-YEAR TERM

Wow!

Frederick J. Armstrong has been graduated from the Massachusetts School of Technology at Harvard and

That's the Real Test

"I see that Dinkins is prospering now."

"Where did you see that?"

"In the paper."

"Financial page?"

"No; advertising column."—Brooklyn Citizen.

There are those who say that the present freshman class at Tech is the "freshest" in the history of the institute. This verdict is handed down after a consideration of the turmoil which followed the 1921 dinner last Saturday night. But have the judges not forgotten the case of the class of 1918, at whose freshman dinner some student, strong of arm and accurate of aim, hit Dean Burton with a biscuit?

+ + +

THERE was a box full of Dartmouth undergraduates at the "Passing Show of 1916" a few evenings ago, and Ed Wynn, the chief comedian, challenged the audience to name any topic, guaranteeing to make an extemporaneous joke of the same. The Dartmouth group was the first to make a suggestion, and what topic for a joke could they offer but Harvard? But Wynn failed to come across.

H. W. W. "I'm a model student these days."
G. Y. C. "Howzat?"
H. W. W. "Listener in life class."

"Here's where I lose ground," said the Tech commuter as he entered the shower for his Saturday night regular.

I have the Chaplin Hobby, which is natural, of course,
But of late the inclination has been growing worse, perforce,
Until now I am quite certain that I have a Charlie Horse.

"Don't know me? Why, I'm Major Schurz,"
He said with a handshake that hurt.
"Deuce with you," said the stude,
"I could n't go nude,
I don't care if you *did* make my shirts."

CORRECTION

Quite So!

The Tech wishes to correct a statement made in the issue of April 21. It as C. H. Loomis '17 and not F. P. O'Hara '17 that in the 440-yard dash in the Spring Meet last Friday.

The union of the Technology and Wellesley glee clubs is only one of several interesting symptoms.

SEA SCHOOLS BOOMING

Dean Burton and Professor Miller Both Away

Professor A. E. Burton of the Ins
Professor E. F. Miller, who

REPORT SAYS FLAT FARE ON TOLLEY LINES IS DOOMED

The Electrical Resea ch Division of Massachusetts Institute of Technology

How about flat wheels?

"Have you seen Dinkins?"
"No; what are they?"

Golden Thought for the Day

The man who wants an even pass
Should always have P. Marks in class.

"Fish Gilbert" has gone into the carrier pigeon division of the Signal Corps. As an electrical engineer, Fish will be a useful man for wiring the cages.

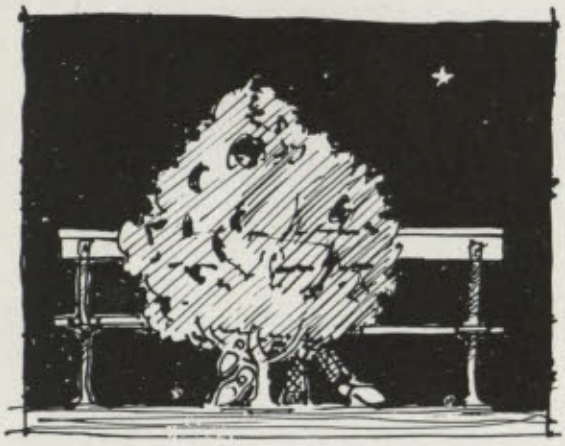
SAY FIVE-CENT FARE DOOMED

Tech Experts Report on Street Car Systems

The five-cent fare is not only doomed, but for some little time has been practically extinct; at least, in so far as the company's Technology clientele is concerned. What with the overcrowded cars and the unscientific offertory system of collection, nobody who is anyone ever pays his fare across the bridge nowadays. It 's simply not being done.



Stopping to Get His Breath



SUMMER SCHOOL

Evening Classes—Vice and Bench Work in The Fenway

HALF HOURS WITH THE POETS

(Submitted by a Prominent Faculty Member, Author of "They Shall not Pass!")

My Last Duchess

QUESTION. What sort of a character had the man which is speaking?

ANSWER. He seemed to be a pretty good old chap; his heart was in the right place.

Andrea del Sarto

Q. What was the character of Andrea's wife?

A. She was a quiet, home-keeping body who loved to sit down in the evening and talk with her husband about his art.

The Grammarian's Funeral

Q. What kind of a student was the Grammarian?

A. The Grammarian was a student of Calculus, Tussis, Languages and Sciences.

Caliban upon Setebos

Q. What idea do you get of Setebos from the examples in regard to Caliban of the clay bird, the file of crabs and the pipe?

A. Setebos is an enchanted island on which the magician Caliban makes live birds from clay and makes pipes talk. Caliban rules all the animals like the crabs.

Fra Lippo Lippi

Q. What was the point at issue, in regard to painting, between Fra Lippo and his Prior?

A. Lippo had painted a portrait of the Prior's niece when she was in church, and the Prior said it looked like Herod and he did n't like too much body in it.

Tech's Trinities

I

I'm Leon, I'm Paul, and I'm Johnnie,
Three seniors remarkably chummie,
'Though two is company, three 's not a crowd,
We're always together so happy and proud.
We manage the masses plebeian,
Do Johnnie, do Paul and do Leon.
I'm the Institute's King,
I'm the very next thing,
I'm high in the scale, for I handle the kale . . .

CHORUS

We're Johnnie and Leon and Paul,
You can't do without us at all.
We travel together in chorus of three
For the profits we get out of Technology.
For Paul works with Leon and Johnnie
To gather in bushels of money;
We cut up the dividend — three ways it falls,
What's Leon's is Johnnie's,
What's Johnnie's is Paul's.
The squarest triangle in publishing halls
Is Johnnie and Leon,
And Johnnie and Leon,
And Johnnie and Leon . . . and Paul.

II

I'm Humphreys, I'm Ford, and I'm Burton.
We run the whole place; that is certain.
A well-oiled machine for extracting your dough
And keeping you straight in the way you should go.
We know how to fire without hurtin',
Do Humphreys, do Ford and do Burton.
I watch the reports,
And I fire the sports,
But they can't be too rash, for I handle the cash . . .

CHORUS

We're Humphreys and Burton and Ford.
We three always work in accord,
Though we never are seen at the musical shows,
At the Follies, St. Jimmie's, the Howard, or Loew's,
Yet Humphreys and Burton and Ford
Keep tab like the old Watch and Ward.
We swap information at faculty boards,
What's Burton's is Humphreys',
What's Humphreys' is Ford's.
A living example of Damocles' sword
Is Humphreys and Burton,
And Humphreys and Burton,
And Humphreys and Burton . . . and Ford.

III

I'm Webster, I'm Stone, and I'm DuPont.
We've got as much money as you want.
In fact we have more than we know what to do,
When the President asks us we always come through.
We gush out our gold like a true font,
Do Webster, do Stone and do DuPont.
I have millions in view, I'm a Gold Dust twin too,
But mine's the big prize,
For I sting the Allies . . .

CHORUS

We're DuPont and Webster and Stone,
We finance M. I. T. all alone.
We're not Talbot, nor Spofford, or Sedgwick, or Swain,
But we 'll have our names cut in the courtyard so plain,
So DuPont and Webster and Stone
Posterity thus will be shown.
We vie with each other in making a loan,
What's Webster's is Stone's,
What's DuPont's is his own.
For Billions and Buildings and Bombs are we known,
Are Webster and DuPont,
And Webster and DuPont,
And Webster and DuPont . . . and Stone.

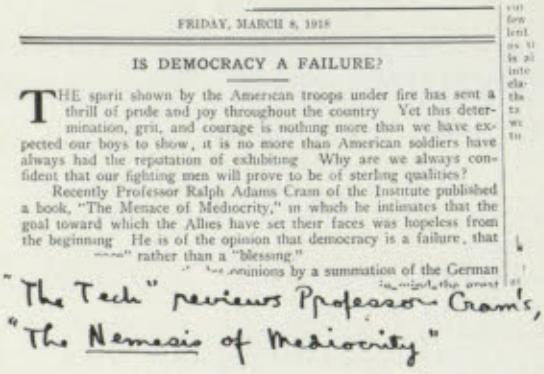
IV

I'm Dewey, I'm Cross, and I'm Tyler,
Each one of big books a compiler;
To keep you from courses you'd like to take,
We're on the job and always awake.
Sometimes we are sweeter than Huyler,
Is Dewey, is Cross and is Tyler.
I'm Course Fifteen's lord,
I give sports their reward,
But I talk in Smith Hall,
And you can't hear at all . . .

CHORUS

We're Dewey and Tyler and Cross,
A trinity never at loss;
Not a student that lives can get by us with bunk,
You may know how to bluff, but we know how to flunk.
For Dewey and Tyler and Cross
Their courses religiously boss.
Each one has his share of tonsorial moss,
Some's Dewey's, some's Tyler's, the chin is all Cross;
To see if you flunk out a nickel we toss,
Do Tyler and Dewey,
And Tyler and Dewey,
And Tyler and Dewey . . . and (inaudibly) Cross.

What's in a name?



FRIDAY, MARCH 8, 1918

IS DEMOCRACY A FAILURE?

THE spirit shown by the American troops under fire has sent a thrill of pride and joy throughout the country Yet this determination, grit, and courage is nothing more than we have expected our boys to show, it is no more than American soldiers have always had the reputation of exhibiting Why are we always confident that our fighting men will prove to be of sterling qualities?

Recently Professor Ralph Adams Cram of the Institute published a book, "The Menace of Mediocrity," in which he intimates that the goal toward which the Allies have set their faces was hopeless from the beginning He is of the opinion that democracy is a failure, that —— rather than a "blessing."

—— opinions by a summation of the German

"The Tech" reviews Professor Cram's, "The Nemesis of Mediocrity"

This is the Miner.
A swear-cussing Miner.
A burrowing devil.
A blast-furnace stoker.
A bear at the level.
A sulphur-gas smoker.
Chews tobacco with soup.
Sleeps on shelves in a coop.
At mucking a shiner.
His dad's forty-niner.
Plays with dynamite primer.
Thinks naught could be finer.
Such is the Miner!

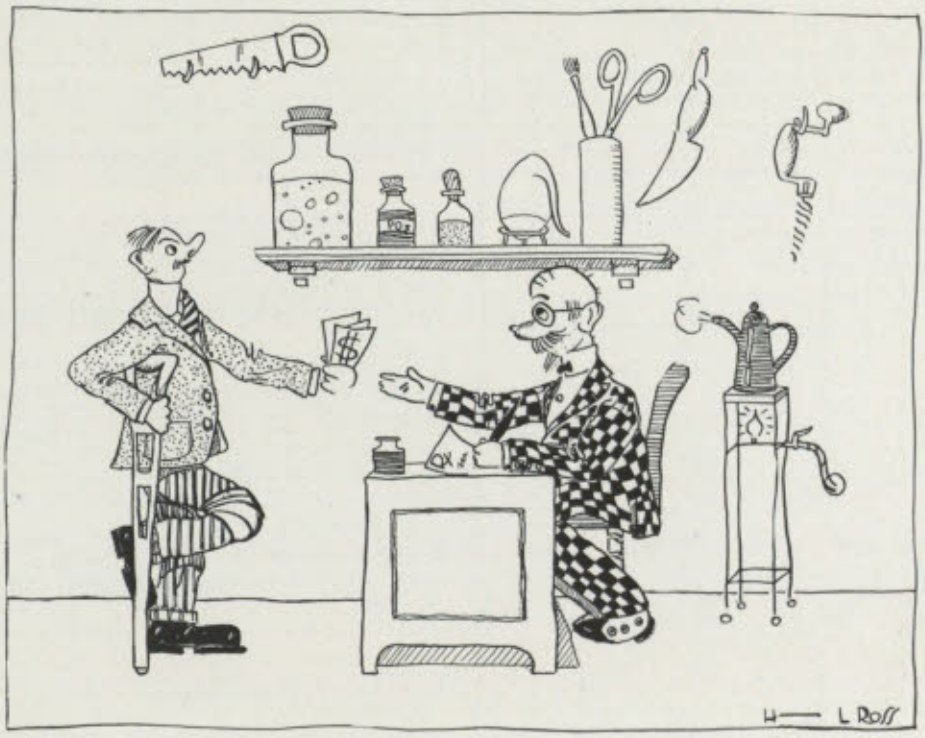
Lyrics from "Back to Rogers"

You can tell by my uniform blue,
That my grandfather wore when 't was new,
By my cap, by my map, nice and clean . . . seventeen.
You can tell by my innocent looks,
You can tell by my bag full of books,
You can tell I enjoy being . . . not a bellboy . . .
But a freshman.

You can tell by my manner remote,
You can tell by the fact that I vote,
And my watch with the face of a girl in the case,
You can tell by my scorn of the mob,
You can tell by my hunt for a job,
That I'm soon to be hurled out upon a cold world . . .
I'm a senior.

You can tell by my fast-thinning hair,
You can tell by my pondering air,
By the specs' on my nose, by the gloss on my clo'es,
You can tell by the way that I munch
On my rather inadequate lunch,
You need not be afraid that I'm *much* overpaid . . .
I'm instructor.

SENTRY: "Halt! Who goes there?"
CONVIVIAL CADET (*one of three*): "Three cadets."
SENTRY: "Advance, one cadet."
C. C. "Can't; other two 'll fall down."



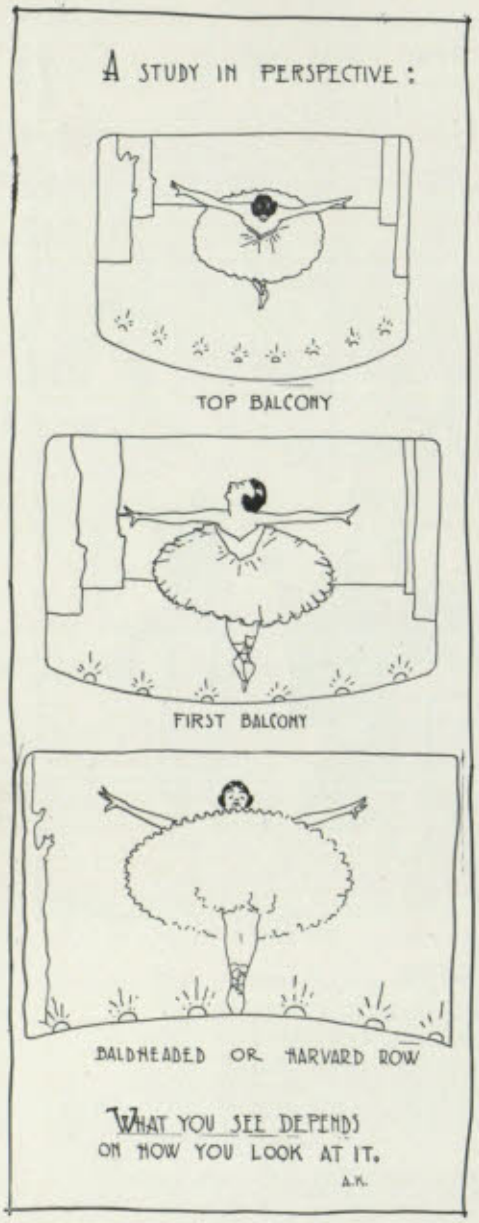
Joint Expense

DOC. ROCKWELL: "Young man, with the extraction of these last ten bones I am confident that you will feel relieved."

P. L. Y. "We play poker a different way where I come from."
P. M. D. "So?"
P. L. Y. "Yeah; the man who is caught cheating loses."

Going Three Ways at Once

(*Find the direction cosines of this line of action.*) "I went in for activities; went out for the Tech, and went down in my work."



The Instructor

Where is the suit I wore last year?
A conservative model, dressy, but plain,
Was it Kuppenheimer or Edouard Filène?
I used to pass for a bank cashier;
But the cloth got thinner year by year,
And one day I was crossing the bridge in a wind
And I felt a draught somewhere behind—
That was the end of the fancy lugs—
The folks used the rest in braiding rugs.
Where is the suit of yesteryear?

Where is the ass I was last year?
Biting off more than I could chew,
Ready to dream, but not to do;
With too much conscience, too many regrets,
And a cough from too many cigarettes.
I'd like to grow up and swell up in the pouch,
With a rank cigar and the usual grouch
A man gets on if his skin is tough,
But me — I don't know where they get that stuff.
Where is the ass of yesteryear?
That's easy to answer — he's still right here.

Temperament

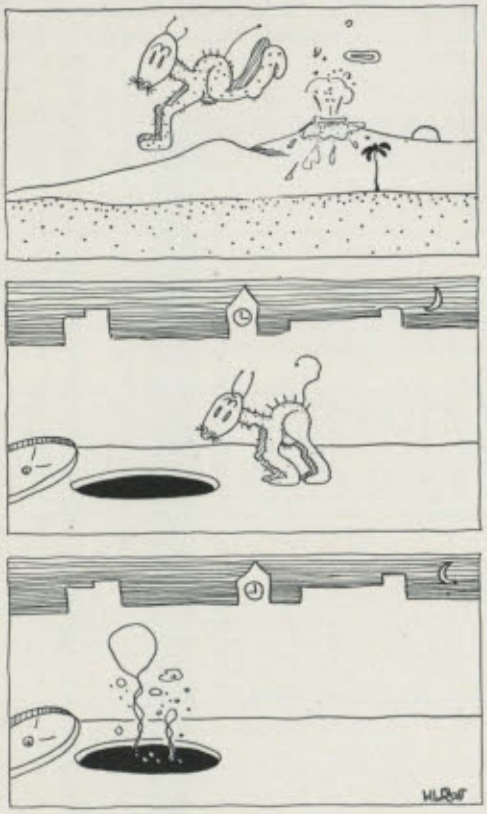
MR. PORTER (*examining sketch*): "Why the statue of liberty in the fountain?"

OTTO MULLER: "Water's free."

Apropos of the notice of a notary public situated at the coop, it is to be inferred, is it not, that Technology students are entitled to a refund on marriages performed there?

BALFOUR: "I've just been at an exhibition of fine needlework."
BARNEY: "Thasso?"
BAL: "Yeh; down at the Victrola agency."

"Now you're torqueing," said the Course VI man, as he closed the motor switch.



The Back Bay Muffhound

Spiritually bumping against the blue-vaulted dome of the heavens, the Back Bay Muffhound answered the call of his mate with a lilting lay. Anon he lilted:

Whenas, athwart a dingle dank with dew,
I tripped with gladsome heart and spirit free,
While high in serried ranks the flivvers flew—
E'en then, as ever, were my tho'ts of thee.

His spirit was unleashed, and his ears beat time to the subtle cadence of his rhyme. Of a sudden he glanced below, and beheld a manhole, whence issued dulcet thrills from some son of a gunman, who sang to this effect:

"We are lost!" the Captain shouted, as he staggered down the stairs.
"The cost of living still is high, but really now, who cares?
"You can trolley through New England on not more than fifty fares."

Being naturally of an inquisitive disposition, the Muffhound gazed within, and perceived the bard in the sewer, sewing. Zephyrs perfume laden floated to his nostrils, and he sniffed their fragrance into the depths of his being. For he was a knowing wag, this, and something of a connoisseur of such things.

But just as the plot had developed to this point, someone rudely shoved the Muffhound into the manhole, and there's an end. It ruined the hero of what we expected was to be a gripping dog story — one that would make all dog lovers break down and reverse their cuffs. We feel rather badly about it; but perhaps it is just as well. The story might not have turned out as well as it should have, anyway.

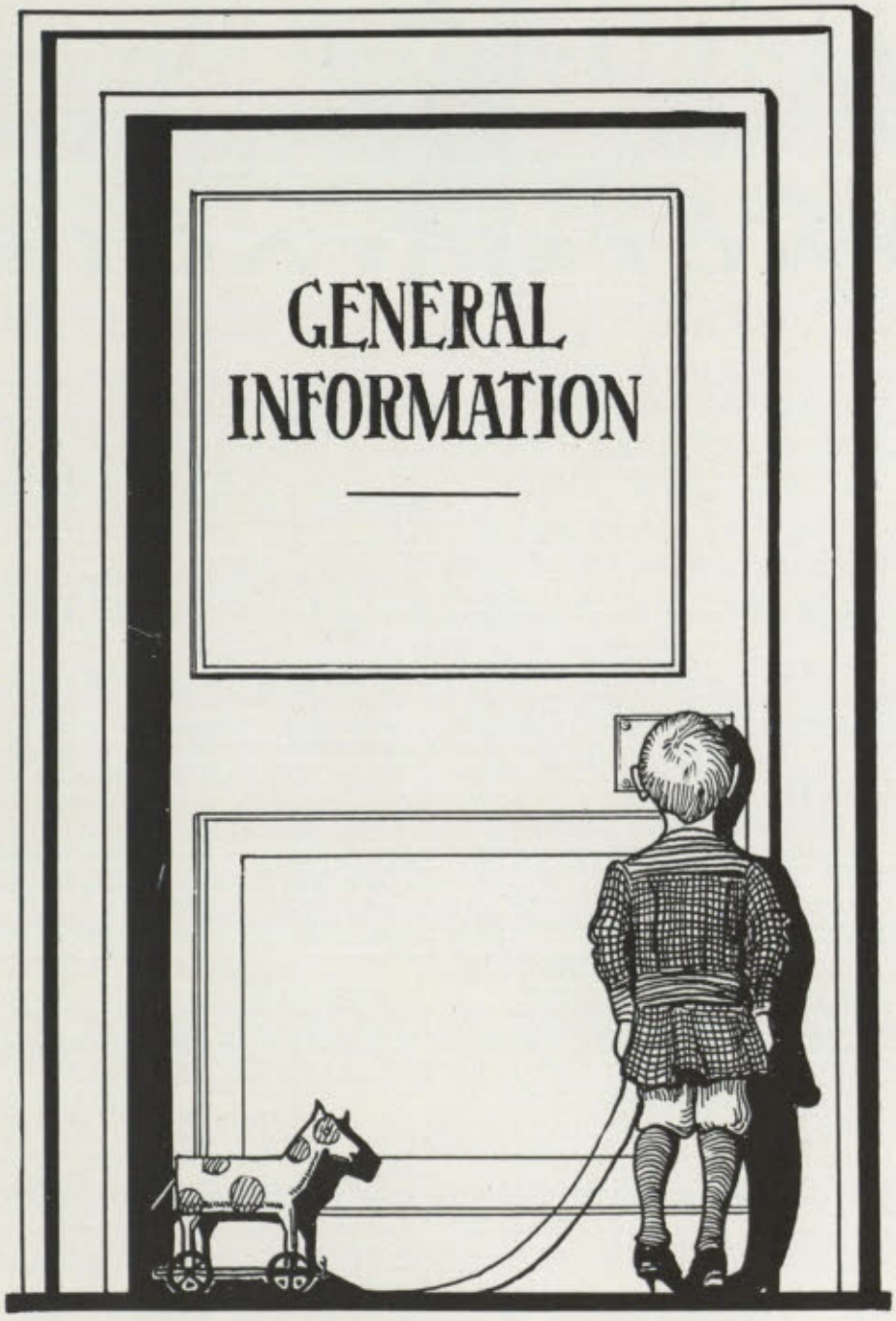
JIMMIE REIS (*watching Oscar poling away at some mess in the cupel furnace*): "What do you expect to get when you 're through?"

OSCAR: "The biggest in the city."

"Arline is a very well-read girl, is n't she?"

"I guess so. Every time I try to make a date she 's all booked up."

GENERAL INFORMATION





Award of Insignia

AWARD OF "T"

To winners of points in N. E. I. C. A. A. or I. C. A. A. A. A. track meet.

To first place winner of any event in the team competition in I. C. A. A. A. A. indoor meet.

To scoring members of a winning cross-country team in N. E. I. C. A. A. or I. C. A. A. A. A. cross-country meet.

To any man making twelfth place or better in I. C. A. A. A. A. cross-country meet.

To any man making eighth place or better in N. E. I. C. A. A. cross-country meet.

To winning relay team at annual B. A. A. indoor games making better time than 3:10 for 1560 yards (no substitutes).

ADDITIONAL INSIGNIA

To winners of the "T" for the second or more times a star is awarded to be worn with the "T" for each additional time the honor is earned under the conditions that the award is made in two different years in the same sport or in the same or different years in a different sport.

SPECIAL AWARD OF "T"

At the discretion of the Advisory Council the "T" may be awarded in the following cases:

To first place winners in dual or first and second place winners in triangular intercollegiate track meets.

To first place winners in dual or first, second, and third place winners in triangular intercollegiate cross-country meets.

To members of winning relay teams.

To members of winning cross-country teams in dual or triangular meets.

To members of tennis doubles team reaching the final round or to members reaching the semi-finals in tennis singles in the annual N. E. I. L. T. A. tournament.

To members of winning team in I. C. A. A. A. A. indoor meet, provided at least three teams compete.

To members of the Swimming, Hockey, or Wrestling teams competing in not less than two-thirds of the scheduled games.

To the manager of the Track Team.

AWARD OF aTa

To winners of points in dual or triangular intercollegiate track meets.

To first place winners in open class meets (at the discretion of the Advisory Council).

To winning teams in intercollegiate relay races (at the discretion of the Advisory Council).

To manager of the Track Team.

AWARD OF cTc

To winners of thirtieth place or better in I. C. A. A. A. A. cross-country meet.

To winners of twentieth place or better in N. E. I. C. A. A. cross-country meet.

To point winners in dual or triangular cross-country meets who make tenth place or better.

To the four men making the fastest time in the annual M. I. T. open cross-country meet.

AWARD OF wTr

To members of wrestling team competing in two-thirds or more of the meets of the season and to the manager (at the discretion of the Advisory Council).

AWARD OF sTr

To members of swimming team competing in two-thirds or more of the meets of the season and to the manager (at the discretion of the Advisory Council).

AWARD OF rTr

To members of tennis team competing in majority of the scheduled intercollegiate matches (at the discretion of the Advisory Council).

To winner of fall tennis tournament.

To the manager of the tennis team.

AWARD OF rTr OR T WITH CROSSED RIFLES

To members of outdoor rifle team and manager if team position is in first third of the competing teams (at the discretion of the Advisory Council).

To members of indoor team competing in two-thirds or more of the matches of the season if the team position is in the first third of the competing teams (at the discretion of the Advisory Council).

To rifle team members the T with crossed rifles is awarded by the Advisory Council in case of special distinction.

AWARD OF hTr

To members of hockey team competing in two-thirds or more of the games of the season and to the manager (at the discretion of the Advisory Council).

To seven members of the second team selected by the captain and manager the hTr 2nd may be awarded (at the discretion of the Advisory Council).

AWARD OF NUMERALS

To point winners in open class meets.

To first place winners in freshman-sophomore spring track meet.

To first six scorers of winning class in annual freshman-sophomore cross-country race.

To members and manager of winning baseball team in spring series.

To members and manager of winning wrestling team in annual class series.

To Field Day contestants as follows: to members, five substitutes, and manager of both football teams; to members, two substitutes, and manager of winning relay team; and to members, two substitutes, and manager of winning tug-o'-war team.

ACKNOWLEDGEMENTS

GREATLY appreciating the suggestions and aids of its friends and the interest shown by the faculty and undergraduates, Technique takes this opportunity to thank all who have assisted in the preparation of this volume. The Board is especially indebted to:

Professor Archer T. Robinson
Professor Robert E. Rogers
Percy Marks
Frank Kanaly
Alice N. George
Allen W. Rowe

Howard B. Allen
Franklin A. Bermingham
Theodore W. Bossert
Malcolm S. Burroughs
George H. Burt
John T. Cronin
Philip M. Dinkins
David L. Fiske
Ernest A. Grunsfeld
Harold E. Kebbon
Van R. Lansingh
George C. McCarten
Marcial E. Martinez V.
Kenneth Reid
Howard L. Ross
Robert L. Sjöström
Albert E. Tuttle
Donald D. Way
Royal B. Wills
Leland D. Wilson

Of these Messrs. Bossert, Burroughs, Burt, and Wilson, were appointed Assistants to the 1919 Technique Board, and were recommended to the 1920 Technique Electoral Committee for positions on Technique 1920.

This volume was printed by The University Press, Cambridge; the official photographer was Notman, 3 Park street, Boston; and Otto Sarony supplied the pictures of the Tech Show.

DIRECTORY OF STUDENTS

Name and Society	Class	Course	Home Address
Abbot, George, 2nd, B.S., S.B	Grad.	VI	400 9th St., Laramie, Wyo.
Abbott, Norris Greenleaf, Jr., ΣΑΕ	1920	II	107 Providence St., Providence, R. I.
Abercrombie, Ralph Pidgin	1920	XIV U.	131 St. Botolph St., Boston, Mass.
Acker, Claire Depew	1920	I U.	42 Weldon St., Rochester, N. Y.
Acosta, Alberto Aurelio	1921	I	Yurimaguas, Peru, S. A.
Adams, Edmund Chancey, ΘΧ	1919	VI–A U.	11 S. Main St., Concord, N. H.
Adams, Elliott Torrey	1921	V	744 Dudley St., Dorchester, Mass.
Adams, Florence	1920	IV Sp.	143 Kilsyth Road, Brookline, Mass.
Adams, Franklin Stanley	1919	VI	Main St., Stockbridge, Mass.
Adams, Frederick Wildes	1921	X	19 Fairfax St., West Newton, Mass.
Adams, Myron Whitlock, A.B.	1918	VI	4 Rutledge St., West Roxbury, Mass.
Adams, Waldo, ΣΧ	1921	II U.	127 Highland Place, Dubuque, Ia.
Adams, Wallace Theodore	1921	VI	9 Mace Place, Lynn, Mass.
Addicks, Allen Drew, ΦΚΣ	1920	X	106 S. 36th St., Philadelphia, Pa.
Ahern, Anthony Gerard	1921	IV	142 Princeton St., East Boston, Mass.
Akers, Kenneth Fellows, ΛΧΑ	1920	XV	108 University Road, Brookline, Mass.
Aldrich, Ellwood Harmon, B.S.	1919	I	866 N. Church St., Rockford, Ill.
Aldrin, Edwin Eugene, A.B.	Grad.	Aero Eng.	9 Charlotte St., Worcester, Mass.
Alexander, Carleton Ernest	1920	II U.	54 High St., St. Albans, Vt.
Allen, George Bentley	1921	XV	38 Otis St., Medford, Mass.
Allen, James Hale	1920	XI	123 Cross St., Lawrence, Mass.
Allen, Lawrence Herman	1920	VI	60 Dean St., Attleboro, Mass.
Allen, Lawrence James	1918	II	238 Bacon St., Waltham, Mass.
Almy, Mary, A.B.	1920	IV Sp.	147 Brattle St., Cambridge, Mass.
Alvaré, Faustino Nemesio, B.S.	1918	II	Sagua la Grande, Cuba.
Ames, Aubrey Payson	1919	XV	16 Sea St., Camden, Me.
Anderson, George William	1920	I	21 Raven St., Dorchester, Mass.
Anderson, Paul Nathaniel, ΦΚΣ	1921	IV	Jamestown, N. Y.
Aronoff, William	1921	X	18 West Pine St., Auburndale, Mass.
Aronson, Adolph Herbert	1921	V	82 Howland St., Roxbury, Mass.
Aronson, John Cecil	1921	I	293 Grafton St., Brockton, Mass.
Arrigoni, Clarence Lino	1921	II	Middletown, Conn.
Ascher, Isaac Simon	1921	U.	404 Aonite St., Jackson, Miss.
Ash, Prentice Durfey, ΧΦ	1920	XV	212 Columbia Hts., Brooklyn, N. Y.
Atkinson, George Henry	1921	X	111 Summer St., Stoneham, Mass.
Atwater, Arthur Clark	1920	X	7 Collins St., Newburyport, Mass.
Atwell, Harold Vivian	1918	XIV	Hopedale, Mass.
Atwood, William Faulkner	1921	X	3 Parkview Ave., Lowell, Mass.
Austin, John Fuller, Jr., ΑΔΦ	1921	III	644 Boulevard, Westfield, N. J.
Avery, Chester Orlando	1921	X	35 Grove St., Milford, Mass.
Avery, Julian Miles, ΚΣ	1918	XIV	52 Lincoln St., Framingham, Mass.
Avery, Whitney Kent	1921	II	790 Warren Ave., Brockton, Mass.
Ayala, S. Heliodoro, A.B.	1920	I	Ibarra, Ecuador, S. A.
Babbitt, Clarence Stephen	1919	VI–A.	228 N. Jackson St., Media, Pa.
Baber, Malcolm Johns, A.B.	1918	XIII Sp.	Pottsville, Pa.
Bachmann, Albert Eugene	1921	X	146 Crafts St., Newtonville, Mass.

Name and Society	Class	Course	Home Address
Bachmann, Emil Joseph	1921	X	56 Fenwood Road, Roxbury, Mass.
Bader, Mrs. Greyneth Dunster	1920	IV U.	12 Sutherland Road, Brookline, Mass.
Badger, Edward Franklin	1920	II U.	58 Glenville Ave., Allston, Mass.
Badger, Raymond Milton	1921	U.	58 Glenville Ave., Allston, Mass.
Baker, Channing Nichols, ΘΞ	1921	I	868 Great Plains Ave., Needham, Mass.
Baker, Eben Hayward, ΦΒΕ	1921	II	385 Concord Ave., Cambridge, Mass.
Baker, Fred Phelps	1919	X	3221 Franklin St., Denver, Colo.
Baker, Frederic Alson	1919	VI U.	215 Market St., Rockland, Mass.
Baker, John A. Burton	1921	XV U.	805 Commonwealth Ave., Newton Center, Mass.
Baldwin, Henry duPont, ΔΥ	1921	XV	1412 St. James Ct., Louisville, Ky.
Baldwin, Rollin Smith	1921	XV	114 Williams Ave., Winsted, Conn.
Balfour, Marshall Coulter, ΦΒΕ	1919	VII	86 Shawmut Ave., Marlboro, Mass.
Ballantine, Benjamin Darling	1918	II	1010 Mass. Ave., Cambridge, Mass.
Bancker, Elbert Hyatt, A.B., ΒΘΠ	1918	VI	4 St. Pauls Ct., Brooklyn, N. Y.
Bangratz, Ernest George	1920	VI	19 Hemenway St., Boston, Mass.
Banks, Lawrence Harold	1921	V	2 Marble St., Boston, Mass.
Banks, William Howard, Jr., ΑΤΩ	1919	VI	205 Beech St., Roslindale, Mass.
Bardes, Oliver Louis, ΒΘΠ	1921	XV	110 Hosea Ave., Cincinnati, O.
Barker, John Clement, ΦΓΔ	1920	XV	34 Taylor St., Portland, Me.
Barker, Lincoln Barrett, ΘΔΧ	1921	XIII	Canisteo, N. Y.
Barker, Robert Walker, ΘΧ	1921	II U.	745 Wynnewood Rd., Philadelphia, Pa.
Barker, William Robert, ΦΒΕ	1921	XIV	45 Mallery St., Wilkes Barre, Pa.
Barnes, Garrett Henry	1920	X U.	65 Huntington Ave., Roslindale, Mass.
Barney, Frederick Waldo, ΔΚΕ	1919	II	55 Irving St., Providence, R. I.
Barrett, Herbert William	1919	XV U.	115 Cedar St., Somerville, Mass.
Barriger, John Walker, 3rd	1921	I U.	5430 Cabanne Ave., St. Louis, Mo.
Barron, Samuel	1918	X	35 McLellan St., Dorchester, Mass.
Barron, William Norman, ΣΑΜ	1920	III	132 Garfield St., Springfield, Mass.
Barry, Elmer Lawrence Wesley, ΚΣ	1920	II	R. F. D. Box 134, Holliston, Mass.
Barry, John Gerald, S.B.	Grad.	XII	1075 Boylston St., Boston, Mass.
Barstow, Laurence Edward	1921	VI	56 Graves Ave., Lynn, Mass.
Bartlett, Ray Hayward	1919	XIII	370 Beacon St., Lowell, Mass.
Barton, Charles Bradford, Jr., ΦΣΚ	1921	X	106 Prospect St., Berlin, N. H.
Bascunan, Julio	1919	I U.	Santiago, Chili.
Basinow, Maurice	1921	X	107 Waumbeck St., Roxbury, Mass.
Bassett, Clarence Eustus, ΦΣΚ	1918	XV	8 King St., Taunton, Mass.
Bassett, William Hastings, Jr., ΦΚΣ	1919	X U.	Main St., Cheshire, Conn.
Batchelder, Harry Bertram	1921	XV	115 Westford Ave., Springfield, Mass.
Bates, Clarence Westinghouse	1919	XIV U.	14 Paris St., Medford, Mass.
Bates, Herbert Franklin	1920	X	190 Prospect St., Brockton, Mass.
Bates, Oscar Kenneth	1921		208 Harvard St., Dorchester, Mass.
Bauer, Morris Miller	1921	XI	627 June St., Cincinnati, O.
Bawden, Garvin, ΔΚΕ	1921	XV	Houghton, Mich.
Bayle, Joseph Henri, A.B.	1921	II	37 Washington St. S., Rochester, N. Y.
Bean, Karl David	1920	II U.	1089 Boylston St., Boston, Mass.
Bean, Ralph Carleton, A.B.	1919	VII Sp.	48 Emerson St., Wakefield, Mass.
Beattie, Challen Morton	1918	II	151 Elm St., Quincy, Mass.
Beattie, Hamilton, ΔΥ	1921	XV	Tiverton, R. I.
Beattie, James Alexander	Grad.	V	208 E. Caldwell St., Louisville, Ky.
Beattie, Malcolm Burch, ΔΥ	1921	XV	Tiverton, R. I.
Beaulieu, Leo Edward	1919	VI–A.	526 Summer St., Holyoke, Mass.
Beaver, Rudolf	1918	I	Budapest, Hungary
Becker, James Howard	1919	II U.	Clyde, Ohio
Beckett, Minor Millikin, ΔΤΔ	1919	X	510 Dayton St., Hamilton, O.
Beeche, George Augustus, B.Math.	1919	III U.	Santiago, Chili, S. A.
Beer, Ethan Allen, ΦΒΕ	1921	XV	Hibbing, Minn.
Beers, Gilbert Francis, ΦΣΚ	1919	I	52 Cedar St., Taunton, Mass.
Béique, Jean Edgar, ΑΦ	1920	I	540 Sherbrooke W., Montreal, Can.

Name and Society	Class	Course	Home Address
Benedict, Ethel M., A.B.	1919	V Sp.	2 Atwood St., Wellesley, Mass.
Bengston, Gustaf Bernhard	1920	IV Sp.	Nine Mile Falls, Wash.
Bennett, De Witt William	1921	X	1102 North Ave., Rockford, Ill.
Bennett, William Francis, Jr.	1919	VI–A.	24 Spring St., Somerville, Mass.
Bent, Roderic Leslie, ΔΤ	1919	II U.	129 Elm St., Gardner, Mass.
Bere, John	1921	VI U.	265 River Ave., Winnipeg, Can.
Bergen, Martin John	1921		49 Poplar St., Boston, Mass.
Berko, Paul Matthew	1920	I	200 Lewis St., Lynn, Mass.
Berkowitz, Morris	1919	II	2 Hutchings St., Roxbury, Mass.
Berkowitz, Robert Reuben	1920	II	12 Lorne St., Dorchester, Mass.
Berkowitz, Steven Ross	(Intensive)	XIII	Hotel Ranelegh, 11 Mountfort St., Boston, Mass.
Berliner, Henry Adler	1918	II	1458 Columbia Rd., Washington, D. C.
Berman, Eli	1918	VI	22 N. Russell St., Boston, Mass.
Bermingham, Franklin Andrews	1919	IV U.	1705 Commonwealth Ave., Brighton, Mass.
Besa-Montt, Herman	1920	VI U.	Santiago, Chili, S. A.
Best, Herbert Walter, ΑΦ	1919	XV U.	235 W. 71st St., New York, N. Y.
Best, Theodore Harding, Jr.	1920	II U.	2 Chamblet St., Dorchester, Mass.
Bibber, Harold Whitney	1920	VI	31 Beacon St., Gloucester, Mass.
Bigelow, Homer Lane, Jr.	1921		37 Old Orchard Rd., Chestnut Hill, Mass.
Bildsoe, Erik Grove	1918	XIII Sp.	Copenhagen, Denmark
Binns, Frederick Walter	1921	X	1043 Tremont St., Roxbury, Mass.
Bixby, Harold Oakes	1921	VI	65 Hillside Ave., Arlington Hts., Mass.
Black, Robert Douglas	1921	III	32 Addison St., Arlington, Mass.
Blackall, Robert Murray, A.B., S.B.	Grad.	IV	103 Church St., Watertown, Mass.
Blackmer, Franklin Henry	1920	XV	293 W. Emerson St., Melrose, Mass.
Blaisdell, Sidney Briggs	1918	II	151 Altantic Ave., Providence, R. I.
Blake, Arthur Henry	1920	II	261 Safford St., Wollaston, Mass.
Blanchfield, Paul Edward	1918	X	333 Springfield St., Chicopee, Mass.
Blewer, Francis Livingston	1921	II	Newark Valley, N. Y.
Bliss, George	1920	VI	2132 Bancroft Pl., Washington, D. C.
Blodgett, James Herbert	1921	U.	17 Grant St., Lexington, Mass.
Blodgett, Leo Stanislaus	1918	XIII	31 Winter St., Portland, Me.
Blomquist, Harold Robert	1921	VI	13 Spalding St., Jamaica Plain, Mass.
Blood, Lawson Tisdale, ΔΤΔ	1921	X	47 First St., Taunton, Mass.
Blood, Roderic Miller, ΦΓΔ	1919	XV U.	20 Orient Ave., Newton Center, Mass.
Blumberg, Henry Bernard	1919	II	64 Brunswick St., Roxbury, Mass.
Blye, Paul Woodbury	1919	VI	460 Water St., Haverhill, Mass.
Bôcher, Frederick	1920	I Sp.	48 Buckingham St., Cambridge, Mass.
Boettner, Francis Ernest	1920	I U.	130 Lowell St., Peabody, Mass.
Boghossian, Aram	1918	I	709 Fifth Ave., New York, N. Y.
Boice, Frank Seymour, B.A.	1919	II	1355 S. El Molino Ave., Pasadena, Cal.
Bolan, Robert Stuart	1919	X	19 Stonehurst St., Dorchester, Mass.
Boley Frederick William, ΔΤ	1919	IV	Buenos Aires, Argentina
Bolotin, Jacob Joseph	1918	II	23 S. Fruit St., Youngstown, O.
Bond, Clinton Lucius	1920	II	9 Crandall St., Adams, Mass.
Bond, George Raynolds, Jr., ΦΒΕ	1919	X	26 Mulberry St., Springfield, Mass.
Bond, Nelson Arthur, ΦΚΣ	1919	XI	71 Waverly St., Roxbury, Mass.
Booth, Edward Wolcott, ΣΑΕ	1921	XIII U.	1016 Beacon St., Brookline, Mass.
Booth, Ralph Douglas	1920	VI	2 Merrill St., Methuen, Mass.
Bossert, Theodore William, ΘΞ	1920	X	179 36th St., Milwaukee, Wis.
Boston, John Lloyd	1921	I U.	Burlington, Mass.
Boucher, William Frederick, Jr.	1921	X	172 Pearl St., Newton, Mass.
Bourke, Norman Tobitt, A.B.	1919	II U.	1541 Park Ave., Omaha, Nebr.
Bowditch, Frederic Channing, Jr.	1920	XV	164 Rawson Road, Brookline, Mass.
Bower, Harold George	1920	XV	1312 Bank St., Pasadena, Cal.

Name and Society	Class	Course	Home Address
Bower, Richard	1920	II	414 Elm St., Braintree, Mass.
Boyd, Stuart MacLeod	1918	X	67 Converse Ave., Malden, Mass.
Boyden, Laurence Elbridge, ΑΧΑ	1920	XIV	44 Cypress Pl., Brookline, Mass.
Boyer, Will Warren, B.S., ΚΣ	1919	III U.	Portland, Oregon
Boyle, Michael Francis	1921	I	154 Washington St., Woburn, Mass.
Bradford, Stuart Emerson	1921	X	Hyannis, Mass.
Bradley, Donald George, ΦΓΔ	1918	IV	Edmonton, Alberta, Canada
Bradley, Frank Leo	1920	II	46 Summer St., Everett, Mass.
Bragdon, Stanley Bryant, ΘΧ	1920	XV U.	Westbrook, Me.
Bragg, Edward Homer	1920	II U.	316 Loring Ave., Pelham Hts., N. Y.
Bray, Charles Collins	1920	XV	42 Hartford St., Framingham, Mass.
Breed, Stanton Holway, ΑΧΑ	1919	II	1 Kendrick Ave., Worcester, Mass.
Breen, Philip Francis	1921	XIII U.	9 Lyon St., Lowell, Mass.
Brennan, Céleste Johnson	1919	VII	Hotel Westminster, Boston, Mass.
Brewer, George Selden, A.B., ΚΣ	1918	X	Westfield, N. Y.
Brewer, William Evans	1921	II U.	320 Lamartine St., Jamaica Plain, Mass.
Brickett, Edward Montgomery	1920	II	42 Shepard St., Lynn, Mass.
Bridgewater, Ernest Reuben, ΑΧΑ	1918	X	Cuyahoga Falls, Ohio
Briggs, Josiah Morton	1921		28 Priscilla St., New Bedford, Mass.
Brimblecom, Warren Kingsbury	1921	III	25 Breamore Rd., Newton, Mass.
Bristol, Benjamin Hiel, 2nd, ΘΧ	1919	II	Foxboro, Mass.
Brittain, James Frederick	1921	I	125 Powder House Blvd., Somerville, Mass.
Britton, Frederick Schall	1919	II U.	8 Bedford St., Lexington, Mass.
Brodrick, Ralph Wilson	1920	VI	Sterling, Ill.
Broide, Samue lJames	1921	VI	59 Auburn St., Boston, Mass.
Broockmann, Herman, Jr., ΘΔΧ	1920	I	Church St., Richmond Hill, L. I.
Brooks, Howard Leonard	1920	X	19 Hitchcock St., Holyoke, Mass.
Brooks, Ralph Frederick Fleming, ΘΧ	1918	I	47 Julian St., Roxbury, Mass.
Brosnahan, Thomas Vincent	1918	XV	32 Locke St., Cambridge, Mass.
Brown, Adin Allen, ΑΧΑ	1920	III	92 Broadway, Taunton, Mass.
Brown, Charles Ellsworth, ΦΓΔ	1920	I U.	3425 Holmes St., Kansas City, Mo.
Brown, Daniel Hyman	1919	X	46 Melvin St., Lawrence, Mass.
Brown, David Paul, ΑΤΩ	1920	XIII	95 Monroe Rd., Quincy, Mass.
Brown, Dayton Talmage	1921	II	309 W. Grand Blvd., Detroit, Mich.
Brown, Edward Sears	1921	II	19 Oakland St., Salem, Mass.
Brown, George Irving, ΑΤΩ	1920	II	1 Oak St., Auburn, Me.
Brown, Lewis Newton	1921	VI U.	28 Brooks St., West Medford, Mass.
Brown, Louis Armistead, Jr., ΔΤΔ	1919	IV U.	504 N. First St., Charlottesville, Va.
Brown, Orlando Wendell	1921	VI U.	Sanford, Maine
Brown, Philip Renwick, B.S., ΘΞ	1919	I U.	San Diego, Cal.
Brown, Philip Sewall, ΑΧΑ	1920	XV	19 Oakland St., Salem, Mass.
Brown, Ronald Benjamin, ΦΣΚ	1918	II U.	108 Woodward Ave., Rutherford, N. J.
Brown, Ronald Dalrymple, ΘΧ	1921	VI	33 Hancock St., Lexington, Mass.
Brown, Sampson	1921	X	46 Melvin St., Lawrence, Mass.
Brown, William Goss, S.B.	Grad.	Aero Eng.	Rye Beach, N. H.
Brown, Wolfe William	1921	VI U.	33 Clayton St., Malden, Mass.
Browne, Donald	1918	VIII	31 Wolcott St., Malden, Mass.
Browne, Osborne Arthur	1921	VI	582 Putnam Ave., Cambridge, Mass.
Brownell, Dorothea De Wolf	1920	IV	Navy Yard, Portsmouth, N. H.
Brunelle, Samuel Albert	1919	IV U.	43 Mosher St., Holyoke, Mass.
Bruner, Meylert, Jr.	1920	XV U.	206 Waverly Ave., Newton, Mass.
Bruno, Henry Joseph	1920	XV U.	101 Cooldige St., Brookline, Mass.
Bryant, Eliot Hoxie	1920	X	8 Highland St., Woonsocket, R. I.
Bryne, Perry Bush, ΘΞ	1920	XV	Sandwich, Mass.
Buckley, John Edward, Jr.	1920	VI	13 Hall Ave., Nashua, N. H.
Buckner, Laurence Oliphant, ΚΣ	1921	VI	Brocton, N. Y.
Buerkin, Julius Amor, ΦΓΔ	1918	IV	1234 Broadway, Quincy, Ill.
Bugbee, Harold, ΘΔΧ	1920	X	1091 Boylston St., Boston, Mass.
Bugbee, James Marion, ΘΔΧ	1918	III	1091 Boylston St., Boston, Mass.

Name and Society	Class	Course	Home Address
Bugbee, Lucian Willis, Jr.	1921	XV	65 Marcy St., Southbridge, Mass.
Bugbee, Percy, ΘΔΧ	1920	XV	1091 Boylston St., Boston, Mass.
Bunker, Francis Joseph	1920	X	7 Cleveland St., Cambridge, Mass.
Burbank, Royden Lyman	1919	X	39 Tennyson St., Somerville, Mass.
Burbank, Wilbur Swett	1919	III	49 Sparhawk St., Amesbury, Mass.
Burchell, Robert Laurence, ΚΣ	1920	XV	Erie, Ill.
Burckett, Douglas Mellen	1919	VI–A.	Somerville, N. J.
Burckett, Maxwell Kellogg, ΘΔΧ	1921	VI	Upper Montclair, N. J.
Burdell, Edwin Sharp, ΣΧ	1920	XV	665 E. Broad St., Columbus, O.
Burke, Alan Wollison, ΦΒΕ	1920	XV	40 Pollock Ave., Pittsfield, Mass.
Burke, Arthur Edward	1918	VII	76 Spruce St., Watertown, Mass.
Burke, Francis Carroll	1918	IV U.	76 Spruce St., Watertown, Mass.
Burkett, Kenneth McClennan	1921	I	South Hanson, Mass.
Burnham, Charles Hubbard	1921	XV U.	457 South St., Waltham, Mass.
Burnham, Laurence Haskell	1920	II	East St., Lexington, Mass.
Burr, Reginald Geddes	1920	VI U.	Lincoln St., Hingham, Mass.
Burrell, Laurence Keith	1921	XV U.	91 Bedford St., E. Bridgewater, Mass.
Burroughs, Malcolm Sturtevant, ΔΚΕ	1920	XV	43 Adams St., Melrose, Mass.
Burt, George Henry, ΦΚΣ	1920	II U.	507 W. Elm St., Urbana, Ill.
Burton, Oliver Donn, ΣΧ	1919	V U.	1205 Emory St., Ashbury Park, N. J.
Button, Herbert Cogswell, ΣΑΕ	1920	X U.	Cazenovia, N. Y.
Byrne, Philip Joseph, Jr.	1920	X	10 Thetford Ave., Dorchester, Mass.
Byron, Vaughn Johonnott, ΔΤ	1920	X U.	Mercersburg, Pa.
Caird, Alexander Winton, ΑΤΩ	1918	I	Northampton, Mass.
Caldwell, Harold Biedler, ΘΔΧ	1920	X	130 Summit Ave., Mt. Vernon, N. Y.
Caldwell, Stuart Hill, ΦΣΚ	1918	II	14 Oxford Road, Newton Center, Mass.
Calvert, Albert	1920	VI	Clyde St., Brookline, Mass.
Cammann, Oswald, Jr., ΣΧ	1919	XV U.	225 N. Main St., Dayton, O.
Cann, George William	1919	XIII	Kernwood Drive, Lynn, Mass.
Cannell, Joseph Elliot, ΦΒΕ	1919	VI–A.	6 Foster St., Everett, Mass.
Cannon, Georgius Young, ΑΤΩ	1918	IV	1152 S. 5th St. E., Salt Lake City, Utah
Canterbury, Malcolm Page	1921	I	Stoddard Terrace, Worcester, Mass.
Canzanelli, Attilio	1921	III	26 Liberty Ave., Medford, Mass.
Capps, Count Brooke, ΒΘΠ	1920	XV U.	1120 Penn. St., Fort Worth, Tex.
Carleton, Charles Du Bois, ΘΧ	1920	X U.	35 Wall St., New York, N. Y.
Carlson, Carl Edward	1920	X	210 Fern St., Hartford, Conn.
Carpenter, Charles Clinton	1918	I	71 Fayerweather St., Cambridge, Mass.
Carpenter, Donald Fell	1921	XV	65 W. Union St., Wilkes Barre, Pa.
Carpenter, Fontinelle Scott	1920	VI U.	3 Brigham St., Watertown, Mass.
Carpenter, Lansing Taylor	1921	X U.	65 W. Union St., Wilkes Barre, Pa.
Carr, Percy Wolcott, ΦΒΕ	1919	X U.	34 Dorchester St., Lawrence, Mass.
Carr, Roland Provoost, B.A.	(Intensive)	XIII	363 Mill St., Worcester, Mass.
Carroll, Edward Vincent	1920	II U.	1132 Robeson St., Fall River, Mass.
Carter, James Rose	1920	VI	High Plain Road, Andover, Mass.
Carter, John Stanley	1919	II	96A Fairmont St., Malden, Mass.
Cartwright, Ralph Arthur	1919	II	147 Magazine St., Cambridge, Mass.
Carven, Christopher Coleman	1921	IV	34 Centre St., Dorchester, Mass.
Case, Willard Alvah, ΚΣ	1921	II	50 Leavitt St., Brockton, Mass.
Casey, Bartholomew Francis, ΔΚΕ	1920	II	Main St., Bridgewater, Mass.
Cashin, Richard Francis, Jr.	1919	V	31 Blackstone St., Cambridge, Mass.
Cassidy, John Edward	1919	XV	6 Carmel St., Roxbury, Mass.
Castor, Amasa Hungerford	1920	VI U.	724 Maple St., Manchester, N. H.
Catlin, Nimo Tesher, ΑΦ	1918	XIII	220 Lawrence St., New Haven, Conn.
Caust, Morris Leonard	1918	XIV	7 Fayston St., Roxbury, Mass.

Name and Society	Class	Course	Home Address
Chaffin, Warren Leland	1920	XV	Greenhood St., East Dedham, Mass.
Chalfin, Samuel Fletcher, ΑΤΩ	1921	II U.	116 Bedford St., New Bedford, Mass.
Chamberlain, Samuel Harrison, Jr., ΦΣΚ	1918	II	114 The Fenway, Boston, Mass.
Chambers, Ivan Fleming	1921	X	1519 Franklin St., Wilmington, Del.
Champlain, Orrin, 2nd.	1921	III	15 Cheswick Rd., Auburndale, Mass.
Chandler, Lester Van Deventer	1919	VII U.	14 Coddington Ave., Plainfield, N. J.
Chase, John Howe, B.S., ΨΥ	1918	I	1323 Lemon St., Riverside, Cal.
Chase, Roy Brooks	1921	VI	19 Pond St., Newburyport, Mass.
Chatham, Clyde Larzdere	1921		326 Center St., Williamsport, Pa.
Chayne, Charles Augustine, ΘΞ	1919	II	407 N. 2nd St., Harrisburg, Pa.
Chellis, Lawrence Drake	1921	II	47 Draper Ave., Arlington, Mass.
Chen, Chi-fah, S.B.	1920	III	Amoy, China
Chen, Chung-yang	1918	III	Shanghai, China
Chen, Lee Ting, A.B.	1918	V Sp.	Peking, China
Cheney, Donald Shepley	1921	X	8 Bagley Ave., Lowell, Mass.
Cheng, Ying Chang, B.S.	Grad.	X	Soo Chow, China
Chiang, Charles Hsi, M.E.	Grad.	Aero. Eng.	Foochow, China
Chidsey, Halmer Carleton	1920	XI	108 Broad St., Windsor, Conn.
Childs, Frederick William	1919	II	16 Carleton St., Holyoke, Mass.
Chiu, Wei Yü, B.S.	1918	VI	Wusih, China
Chow, Ming, S.B., S.M.	Grad.	V	Taishing, China
Chun, Ki Kee	1920	XV	Shanghai, China
Church, Arthur Albert	1918	VI	21 Alaska St., Roxbury, Mass.
Church, John Wheeler, ΑΤΩ	1921	X	167 Clinton Ave., Kingston, N. Y.
Church, Walter Enos, B.A., ΦΔΘ	1919	IV	Eugene, Oregon
Chutter, George Albert	1921	VI	Swanton, Vt.
Ciechomski, Leon, Ch.E., Ph.D.	1918	VIII Sp.	Warsaw, Poland.
Clapp, Roger	1921	I	288 Main St., Greenfield, Mass.
Clark, Bradford Judson, ΘΧ	1920	X	49 Oak St., Hartford, Conn.
Clark, Edward Parkinson	1921		9 Daboll St., Providence, R. I.
Clark, Edwin Reed	1921	X	21 Park Place, Pawtucket, R. I.
Clark, Eugene Kenneth	1920	IV	Pleasant St., Ashland, Mass.
Clark, James Lomax, ΧΦ	1918	XV U.	80 Claremont St., Newton, Mass.
Clark, John Alston, ΣΧ	1919	VIII	315 Court St., Clarksdale, Miss.
Clark, Myron Harrison, ΣΑΕ	1919	II	Concord, Mass.
Clark, Ormond Wesley	1920	XIV U.	85 Farnham St., Lawrence, Mass.
Clark, Philip Willistine	1921	XIII	9 Howie St., Melrose Hlds., Mass.
Clark, Richmond Sanford	1921	X	319 Huntington Ave., Boston, Mass.
Clark, Waldo Bishop, ΘΔΧ	1919	I U.	227 Payson Rd., Belmont, Mass.
Clark, Carole Aaron	1921	VI	50 Mass. Ave., Cambridge, Mass.
Clarkson, Albert Batchelder, ΣΧ	1919	XV U.	41 Tyng St., Newburyport, Mass.
Clarkson, Ernest Dewey	1921	II	28 Francis St., Waltham, Mass.
Clarkson, John Wheeler, ΣΧ	1918	XV U.	41 Tyng St., Newburyport, Mass.
Clements, William Forrester	1921	I	1831 E. 63rd St., Cleveland, O.
Cleveland, Byron Redmond	1918	II	33 Farnham St., Lawrence, Mass.
Cliff, Stanley Estey	1921	XV	29 Powder House Ter., Somerville, Mass.
Clogher, Eaton James	1918	VI	8 Nottingham St., Dorchester, Mass.
Coachman, Kendrick Powell, ΘΔΧ	1920	II U.	Rio de Janeiro, Brazil
Cobb, Collier, Jr., A.B.	1918	I Sp.	Chapel Hill, N. C.
Cochran, Archie Prentiss, ΧΦ	1920	XV	1503 4th Ave., Louisville, Ky.
Coffin, George Wheeler	1920	VI U.	10 Rosedale St., Dorchester, Mass.
Cofren, Warren Louis, ΚΣ	1920	XV	87 Wyoming Ave., Melrose, Mass.
Cohen, Asher Zelig	1921	X	143 Chestnut St., Chelsea, Mass.
Cohen, Bernard Simpson, ΣΑΜ	1919	VII	30 Eliot St., Boston, Mass.
Cohen, Carl Manuel	1921	X	95 N. Warren Ave., Brockton, Mass.
Cohen, Julian	1921	VI U.	175 Saratoga Ave., Yonkers, N. Y.
Coit, Elizabeth	1919	IV U.	15 Hillside Ave., Winchester, Mass.
Coldwell, Frank Harold	1921	XV	79 Cottage St., Mansfield, Mass.
Coldwell, John Sharples, ΒΘΠ	1919	VI	South Swansea, Mass.

Name and Society	Class	Course	Home Address
Cole, Vernon Clark	1921	II	South St., Barre, Mass.
Coleman, Clarence Eldred Baker, ΧΦ	1921	II U.	57 Watson Ave., East Orange, N. J.
Coleman, Francis Thomas	1919	XV U.	177 Perkins Ave., Campello, Mass.
Colleran, John Joseph	1921	I U.	395 Highland St., West Newton, Mass.
Collerd, Raymond Brett, B.S., ΘΞ	1920	XIII	28 Babcock St., Brookline, Mass.
Colley, William Clarence, ΦΔΘ	1919	IV U.	921 16th Ave. S., Nashville, Tenn.
Collins, Earl Preston, ΛΧΑ	1919	X	973 Mass. Ave., Cambridge, Mass.
Collins, Harold Ebert	1918	XV	44 Carver Road, Newton Hlds., Mass.
Collins, Howarth Cody	1920	X	63 McKinley Ave., Norwich, Conn.
Collins, Hubert Walter, S.B., A.M.	Grad.	I	Holly Springs, N. C.
Collins, Jerome Joseph, A.B.	1921	II	1602 Pittston Ave., Scranton, Pa.
Collins, John Joseph	1921	I	15 Tenney St., Lawrence, Mass.
Collins, William Arthur	1921	I	63 McKinley Ave., Norwich, Conn.
Collins, William Lovejoy	1918	VI	44 Carver Road, Newton Hlds., Mass.
Colson, Mrs. Helen Byron, A.B.	1919	Sp.	140 Spring St., Watertown, Mass.
Colton, Henry Seymour	1921	X	39 Walworth Ave., Hartsdale, N. Y.
Conant, Lawrence Wickes, ΘΔΧ	1921	VI	Camden, N. Y.
Conner, Lester Carlton, ΣΧ	1918	X	72 Medford St., Malden, Mass.
Conniers, Norman Douglas, ΛΧΑ	1920	U.	416 W. 6th St., Covington, Ky.
Connors, Myles Francis	1919	I U.	1011 K St. N. W., Washington, D. C.
Contieri, Anthony William	1919	X	17 Holworthy Place, Cambridge, Mass.
Cook, Charles Cheveau	1920	X	2222 6th St. N. W., Washington, D. C.
Cook, Hilliard Dunning	1921	X	72 Kingsbury St., Gardiner, Me.
Cook, Jere Hewett	1919	I U.	157 Hemenway St., Boston, Mass.
Cook, Joseph Francis, Jr.	1921	VI	641 South St., Roslindale, Mass.
Coolidge, Oliver Hill, ΔΨ	1921		10 West Hill Place, Boston, Mass.
Coombs, Richard Horace	1920	X	Forest Grove, Waltham, Mass.
Cooper, Oswald Elmer, ΒΘΠ	1920	X	Hinton, W. Va.
Copeland, Frank Hammond, A.B.	Grad.	Aero Eng.	35 South St., Campello, Mass.
Corbett, Lloyd Sutherland	1921		4 Aberdeen Rd., Milton, Mass.
Corbett, William Patrick	1921	II U.	35 Central Sq., Somerville, Mass.
Cornell, Raymond Francis	1921	VI	89 Pleasant St., North Attleboro, Mass.
Corr, George Theodore	1920	I	15 Brown St., Cambridge, Mass.
Corthell, Huron DeWitt	1919	I	Laramie, Wyo.
Da Costa, Alberto	1921	XV	93 Marion St., Brookline, Mass.
Costelloe, William Henry	1918	VI	228 S. Second St., Saginaw, Mich.
Couch, Henry Ruffner	1920	X	1506 Kanawha St., Charleston, W. Va.
Coughlin, Edward Joseph	1920	IV U.	55 Summer St., Maynard, Mass.
Cousins, Edward	1920	X	131 Exchange St., Chicopee, Mass.
Cowie, Leland Kinsey, ΔΤ	1921	III	717 S. Main St., Salt Lake City, Utah
Cowles, Wendell Holt	1921		16 Pearl St., St. Johnsbury, Vt.
Coyle, John Henry, ΚΣ	1920	II	55 Evergreen Ave., Hartford, Conn.
Coyne, Francis James, ΒΘΠ	1919	IV	60 Holworthy St., Cambridge, Mass.
Crabtree, Kenneth Gerard	1921	VI	Hancock, Me.
Craighead, Philip Brooks	1918	I	18 Hancock St., Malden, Mass.
Crapo, Claude T., B.S.	(Intensive)	XIII	1799 W. 9th St., Brooklyn, N. Y.
Creamer, Loring Cavanaugh	1921	II	16 Walnut St., Everett, Mass.
Creedon, Frank Riordan	1918	I	285 Moraine St., Brockton, Mass.
Creedon, Walter Jeremiah	1919	I	285 Moraine St., Brockton, Mass.
Creel, Jesus Luis	1921	II	1225 E. Boulevard, El Paso, Tex.
Cressy, Dustin Greeley	1921	X	Bradford, N. H.
Crosby, Ernest Davis	1921		223 Lynnfield St., Lynn, Mass.
Crosby, Josiah Denton, ΘΔΧ	1921	X	88 Lake St., Arlington, Mass.
Crosby, Ralph Joseph	1918	II	125 Shultas Place, Hartford, Conn.
Crotwell, Samuel Philip, Jr.	1918	VI	Newberry, S. C.
Crowley, Andrew George, Jr.	1921		12 Athelwold St., Dorchester, Mass.

Name and Society	Class	Course	Home Address
Crowley, Harold Greenleaf	1921	II U.	33 Edge Hill Rd., Winthrop, Mass.
Crowley, John D.	1920	II	285 Globe St., Fall River, Mass.
Crowley, John William Arthur	1920	VI U.	3 Cobden St., Roxbury, Mass.
Cudworth, James Rowland	1920	III U.	1 Crescent St., Norwich, Conn.
Culbertson, Francis Barnaby	1920	XV U.	33 Newbury St., Boston, Mass.
Cummings, John Spearman	1921	VI	5 Copeland St., West Quincy, Mass.
Cummings, Stanley Robinson	1918	II	123 Winthrop Ave., Wollaston, Mass.
Curran, John Thomas	1919	VI U.	16 Willow St., Lawrence, Mass.
Curry, Donald Woodworth, ΦΒΕ	1921	XIII	21 Woodward St., Newton Hlds., Mass.
Curry, Justin Richard	1920	II	4 Forest St., Lynn, Mass.
Curtin, Frederick James	1920	I U.	201 Weir St., Taunton, Mass.
Curtis, Brian Cutler, A.B.	1918	I	116 E. 62nd St., New York, N. Y.
Curtis, Ernest Sumner	1921	XV	273 Washington St., Gloucester, Mass.
Cushing, Daniel, Ph.B.	1918	V Sp.	291 Farrington St., Wollaston, Mass.
Cutter, George Harwood	1920	II	218 Brighton Ave., Allston, Mass.
Cyr, Howard Mason	1918	X	62 High St., Malden, Mass.
Dadmun, Frederic Bartlett	1921		98 Sycamore St., Winter Hill, Mass.
Dagnall, Clarence Herschel	1918	VI	Oak Bluffs, Mass.
Dakin, Loretta Mildred	1919	VII U.	2226 Prospect St., Cleveland, O.
Daland, Elliot, A.B.	1918	XIII Sp.	Fisher Ave., Brookline, Mass.
Dalton, Laurance Melvin, ΦΓΔ	1919	II	30 Deering St., Portland, Me.
Damon, Roger Henderson, ΘΔΧ	1921	VI	23 Poplar St., Melrose, Mass.
Dana, Norman Putnam, ΦΓΔ	1920	XV	76 Emery St., Portland, Me.
Dandrow, Charles George, Jr.	1920	VI	920 E. 4th St., South Boston, Mass.
Dandt, Alfredo Correa	1919	II Sp.	Porto Alegre, Brazil.
Darling, Blake, A.B.	1919	X	22 Keiffer St., Brookline, Mass.
Dateo, George	1921	II	279 East St., Dedham, Mass.
Daube, Harold Jack	1919	X	5492 Everett Ave., Chicago, Ill.
Davidson, Hobart Oakes, B.S., ΒΘΠ	1920	II	Holland Patent, N. Y.
Davidson, Trevor Otto Moorhead, ΔΤΔ	1921	II	14 W. Utica St., Buffalo, N. Y.
Davidson, Victor	1919	XV U.	236 Bryant St., Malden, Mass.
Davila, Jorge Victor	1921	II	Bayaman, Porto Rico
Davis, Arnold Rogers	1921		177 Main St., Milford, Mass.
Davis, Cutter Pierce, ΑΧΑ	1919	II	71 Waldeck St., Dorchester, Mass.
Davis, Elmer William	1921	II	143 Allen Place, Hartford, Conn.
Davis, Guy Hammett, ΒΘΠ	1919	XIV U.	1127 Montana St., El Paso, Tex.
Davis, Laurence Berry	1921	II U.	12 Phillips St., Watertown, Mass.
Davis, Raymond Edward, ΦΓΔ	1920	XV U.	107 Cole Ave., Williamstown, Mass.
Dawson, Norman	1918	XI U.	314 Webster St., Needham Hts., Mass.
Deal, Harmon Bridwell, ΑΧΑ	1920	VI U.	Cape Girardeau, Mo.
Dean, Fred Russell Eugene, Jr., ΦΚΣ	1921	XV	70 Tonawanda St., Dorchester, Mass.
Dean, William Judson, ΦΚΣ	1920	XV U.	8 Locke St., Andover, Mass.
Dean, Winter, ΦΚΣ	1921	II	415 Summit Ave., St. Paul, Minn.
Deane, Andrew	1919	II U.	853 Hancock St., Wollaston, Mass.
Dearden, Raymond Henry	1919	IV	174 Baylies St., Fall River, Mass.
Decker, John Raymond	1921	VI U.	139 University Rd., Brookline, Mass.
Dedichen, Herman, ΘΔΧ	1919	V Sp.	Christiania, Norway.
Dehon, Theodore, Jr.	1919	VI	Spartanburg, S. C.
Del Aguila, Jose Artidoro	1921	II	Para, Brazil
Delany, Edwin Francis	1921	I	62 Englewood Ave., Brookline, Mass.
Demeritt, John Edgar	(Intensive)	XIII	20 Hemenway St., Boston, Mass.
De Meulenaer, John	1920	I	425 Mass. Ave., Boston, Mass.
Demond, Daniel Bradford	1919	XV U.	North Adams, Mass.
Denbin, Adolph	1921	VI U.	316 Huntington Ave., Boston, Mass.
Denison, Horace Webster, ΒΘΠ	1919	VI	60 Garland St., Chelsea, Mass.
Dennison, Harold Thomas	1920	IV U.	27 Glenwood Ave., Allston, Mass.

Name and Society	Class	Course	Home Address
de Noriega, Juan	1921	VI U.	2416 Newkirk Ave., Brooklyn, N. Y.
Derby, Thomas Howard	1921	I	17 Milton St., Lawrence, Mass.
Derr, Thomas Sieger, A.B., ΑΧΑ	1919	II	83 Centre St., Brookline, Mass.
Derrah, Robert Vincent, ΦΓΔ	1918	II	966 E. 1st St., Salt Lake City, U.
Des Marais, George Fenelon	1920	II U.	170 Huntington Ave., Boston, Mass.
Dewey, William Farnham	1920	II	40 South St., Great Barrington, Mass.
Deyette, Joe Coleman, ΘΔΧ	1920	XIV	580 Terrace Drive, Portland, Ore.
Dias, Moacyr Rodrigues	1919	I	Rua Sabara 20, Sao Paulo, Brazil
Dietz, Walter	1921		13 Sherman Ave., Yonkers, N. Y.
Dill, George Elbridge	1920	U.	21 Washington St., Reading, Mass.
Dinkins, Philip Moss, ΧΦ	1918	X	49 Plymouth St., Montclair, N. J.
Dirksen, Peter Cornelius, Jr.	1921	XIII U.	Summer St., Westwood, Mass.
Dixon, Vladimir	1921		353 Mass. Ave., Cambridge, Mass.
Doane, Foster Parker, Jr.	1920	X	243 Lowell St., Arlington Hts., Mass.
Doe, Albion Noyes	1920	XV U.	100 25th Ave., San Francisco, Cal.
Donahue, Rev. Joseph Nicholas, Litt.B.	Grad.		Notre Dame, Ind.
Donnelly, Thomas Joseph, Jr.	1918	I	63 Brattle St., Arlington, Mass.
Donovan, Joseph Augustine	1918	X	9 Greenough Ave., Cambridge, Mass.
Doolittle, Arthur Nelson	1921	XV	68 Pleasant St., Meriden, Conn.
Dooley, Henry Gerard	1920	VI U.	120 Tremont St., Boston, Mass.
Dorr, Herbert Reedy	1920	II U.	Wayside Farm, Dalton, Pa.
Doten, Everett Fitz, ΦΓΔ	1919	II	115 Glenwood Rd., Somerville, Mass.
Dow, Charles Warren	1918	V	117 Eastern Ave., Lynn, Mass.
Dowlin, Fred Forest, ΔΤΔ	1920	XV U.	61 Church St., North Adams, Mass.
Dowling, Donald Lynd	1920	X	117 Prospect St., Ridgewood, N. J.
Downey, James Francis, Jr.	1920	VI	144 Warren Ave., Boston, Mass.
Doyle, Jesse Irwin, ΣΑΕ	1920	I	1135 N. 31st St., Philadelphia, Pa.
Drew, Charles Wayland, Jr., ΔΚΕ	1919	XV U.	2012 Bryant Ave. S., Minneapolis, Minn.
Drew, Samuel Tilton	1921	XI	38 So. Central Ave., Wollaston, Mass.
Driscoll, William Francis	1921	X	24 Maxwell St., Dorchester, Mass.
Drury, Eric William	1918	IV	Victoria, B. C., Canada
Dube, Edouard Napoleon	1921	I	30 Cochran St., Chicopee Falls, Mass.
Dudley, Paul Fenno	1918	VI	185 School St., Milton, Mass.
Duffill, Hugh Perrins	1920	I	34 Willoughby St., Somerville, Mass.
Duffy, Christopher William	1920	X U.	11 Fletcher Terrace, Watertown, Mass.
Duffy, Herbert Lewis	1919	XIII U.	421 Walden St., Cambridge, Mass.
Dumas, Albert Victor	1920	XIV	St. Casimir, Canada
Duyos, Oscar y Romaña	1920	X U.	Havana, Cuba
Dyer, Nicholas Ernest	1921		981A Tremont St., Boston, Mass.
Dyke, Freeman Huntington	1920	X U.	Andover, Mass.
Eales, Malcolm Alfred Lancelot, ΘΞ	1918	VI	4 Chestnut Park, Melrose, Mass.
Eaton, Charles Wesley, ΑΤΩ	1920	XV U.	Woods Hole, Mass.
Edgarton, Lewis Stearns	1920	XV	1196 E. Broadway St., Fulton, N. Y.
Edmonds, Reginald Whitney	1920	III	86 Hewlett St., Roslindale, Mass.
Edwards, Edward, ΔΤΔ	1921	X	Port Deposit, Md.
Eksergian, Carolus Levon	1920	II U.	9 Madison St., Somerville, Mass.
Ekwall, George Olof	1918	X	30 Fairmont Ave., Waltnam, Mass.
Elliott, John Telford	1919	VI–A.	18 Washington St., Newburyport, Mass.
Ellis, Carl Ambrose	1920	I U.	85 Waverley Oaks Rd., Waltham, Mass.
Ellis, Clarence Meredith, A.B.	1918	IV	76 Division St., North Attleboro, Mass.
Ellsworth, Alfred Augustus	1921	VII	117 Adams St., Braintree, Mass.

Name and Society	Class	Course	Home Address
Elz, George Adolph	1918	VI	86 Orchard St., Jamaica Plain, Mass.
Emerson, Howard William	1920	VI U.	Shirley, Mass.
Emery, Willard Anthony	1921	II U.	707 Bennington St., East Boston, Mass.
Engelbrecht, Walter Bernard	1918	X	36 Jackson St., Stapleton, N. Y.
Entwistle, James Lovell	1921	XIV U.	242 Central St., Central Falls, R. I.
Epstein, Edward Maurice	1921		19 Sammett St., Malden, Mass.
Erickson, Henry William	1920	III	111 Glendale Rd., Quincy, Mass.
Eskew, Roderick Koenig	1921	X U.	414 Broad St., Charleston, W. Va.
Esner, Arthur	1920	II U.	75 Pleasant St., Wakefield, Mass.
Estabrook, Harold Manger, ΔΧΑ	1921	II	49 Tanager St., Arlington Hts., Mass.
Etherington, Eric Llewellyn, ΘΞ	1920	VII	37 Lee St., Cambridge, Mass.
Ettlinger, Eli, A.B.	1919	VI–A.	4543 Newberry Terrace, St. Louis, Mo.
Evans, Laighton	1921	X	Belmont St., South Easton, Mass.
Evans, Ralph Russell	1921	X	21 Tyng St., Newburyport, Mass.
Eveleth, Frederic Cooley	1918	I	59 Elm St., Windsor Locks, Conn.
Evelev, Yale	1918	VI	21 Middlesex St., Boston, Mass.
Everit, Richard Sturtevant	1919	III	Barre, Mass.
Ewertz, Harold Nelson, ΣΧ	1921	XIII	19 Lincoln Ave., Wollaston, Mass.
Facey, John Abbot	1921	II	54 Pemberton St., Cambridge, Mass.
Fairbanks, Herbert Kenneth, ΔΨ	1920	I	Hyde Park, Vt.
Fairbrother, Earle Chester, ΔΦ	1920	III	89 Gainsborough St., Boston, Mass.
Fales, Herbert Gordon, ΔΚΕ	1920	II	145 Highland St., West Newton, Mass.
Falkenberg, John Joseph	1919	I U.	3724 Warwick Blvd., Kansas City, Mo.
Falkenberg, Robert Lawrence	1919	I U.	3724 Warwick Blvd., Kansas City, Mo.
Fargo, Glenn Edmund	1921	I	139 Union St., Littleton, N. H.
Farist, Charles Joel, ΦΚΣ	1919	VI	Cheshire, Conn.
Farmer, George Everett	1921	VI	62 Brattle St., Cambridge, Mass.
Farrand, Edmund Goldthorpe	1919	VI	Penacook, N. H.
Farren, Merritt Freeman	1921	IV	32 Lexington Ave., West Somerville, Mass.
Farrer, John Arnold, Jr., ΦΒΕ	1920	XV U.	28 Hurlbut St., Cambridge, Mass.
Farrington, Arthur Everett, ΑΧΑ	1919	I	19 Waumbeck St., Roxbury, Mass.
Farrow, Edward Samuel, Jr., ΣΧ	1920	X U.	512 7th Ave., Asbury Park, N. J.
Fassitt, Andrew Jackson, Jr.	1920	VI	27 Walden St., Cambridge, Mass.
Featherman, Sidney	1921	X	9 Elm St., Natick, Mass.
Federhen, Herbert Melancthon	1920	V	1133 Commonwealth Ave., Allston, Mass.
Felsenthal, Robert Morris	1921	X U.	4608 Drexel Blvd., Chicago, Ill.
Felsing, William August, B.A., M.A.	Grad.	V	2829 Rio Grande, Austin, Tex.
Fennessey, Elizabeth Mary, B.S.	1918	VII	25 Decatur St., Boston, Mass.
Ferdinand, Ralph Edmund	1921	I	63 Temple Ave., Winthrop, Mass.
Ferguson, Norman Edwards	1921	I	40 Pelham St., Newton Center, Mass.
Field, Harry Peyton, ΚΑ	1921	VI U.	3911 Columbus Ave., Norfolk, Va.
Finch, Herman Francis	1921	II	12 Tip Top St., Brighton, Mass.
Finkelstein, Harold	1921	III	621 N. Washington Ave., Scranton, Pa.
Fischer, Hobart Adolph	1921	II	100 Battles St., Brockton, Mass.
Fisher, Benjamin, Jr., ΔΨ	1921	II	Marsh St., Dedham, Mass.
Fisher, Lawrence Breck	1921	XV	Court St., Dedham, Mass.
Fisher, William Penn, Jr., ΦΚΣ	1918	X	Glen Ridge, N. J.
Fisk, Harry Howland, B.A.	1919	VI U.	137 N. Oakland Ave., Green Bay, Wis.
Fiske, Carlyle Darracott, ΑΤΩ	1918	II	94 Corey St., West Roxbury, Mass.
Fiske, David Lewis, ΔΤ	1920	II	70 Court St., Exeter, N. H.
Fitch, Harold Warner	1918	II	103 Tonawanda St., Dorchester, Mass.

Name and Society	Class	Course	Home Address
FitzGerald, William Joseph	1920	I U.	266 Park St., West Roxbury, Mass.
Flashman, David Harry	1920	VII	37 Schuyler St., Roxbury, Mass.
Fleming, George Grimes, ΣX	1919	III U.	917 18th St., Washington, D. C.
Fleming, Willard Ames	1920	I	73 Florence St., Somerville, Mass.
Flemming, Hartwell	1921	II	136 Elm St., No. Cambridge, Mass.
Fletcher, Alfred Hocking	1921	XI	81 Holyrood Ave., Lowell, Mass.
Fletcher, Saxton Woodbury, ΦΓΔ	1918	II	41 Salem St., Andover, Mass.
Flett, Lawrence Hugo, KΣ	1918	V	154 Youle St., Melrose, Mass.
Flint, James Arthur	1918	II	1570 St. Paul St., Denver, Colo.
Flynn, Edmund Joseph	1919	X	112 Broadway, Taunton, Mass.
Fogler, Florence	1920	XIV	343 Clark Ave., Billings, Mont.
Foley, Frank Joseph	1920	XV	Monson Road, Palmer, Mass.
Foley, Frederic Joseph, A.B.	1918	S.H.O. Sp.	14 Union St., Framingham, Mass.
Folsom, Rolfe Ames	1918	XIV	76 Rockland Ave., Malden, Mass.
Fonseca, Rodolfo Lucio, A.B.	Grad.	VI	Montevideo, Uruguay
Foo, Zer Ping	Grad.	Aero Eng.	Nanchang, China
Forbes, Howard Magoun	1921	XIV U.	33 Reservoir St., Cambridge, Mass.
Ford, Arthur Roland	1919	II	6 Plymouth St., Salem, Mass.
Ford, Frederic Leslie, ΘX	1918	IV	224 Hawthorne St., New Bedford, Mass.
Ford, James Benjamin	1921	XIII	789 E. 180th St., New York, N. Y.
Ford, Karl Leonard	1918	X	4 Plymouth St., Salem, Mass.
Forrest, Henry Ogley	1920	X	154 Railroad Ave., North Andover, Mass.
Fortin, Adelard Joseph, ΔKΦ	1920	II U.	43 Plymouth St., Lowell, Mass.
Foss, Winfred Labberton	1921	U.	200 Summer St., Buffalo, N. Y.
Foster, William Phillips	1921	II	98 Central St., Andover, Mass.
Fox, Gilbert McFethries, Jr.	1921	VI	96 Davis St., Wallaston, Mass.
Franck, Jerome James	1920	X	15 Euston St., Brookline, Mass.
Franklin, Stanley Hamilton	1918	X	17 Dorchester Ave., Providence, R. I.
Fransson, Frans Jorl	1918	VI Sp.	Nommeholm, Sweden
Fraser, Alfred Alexander	1920	II U.	65 Linden St., Wellesley, Mass.
Frazier, Walter Stephen, Jr., ΔTΔ	1918	IV	246 Downer Place, Aurora, Ill.
Frease, Hurxthal Field	1920	XV	130 12th St. N. W., Canton, O.
Fredenburgh, Albert Milham	1920	IV SP.	Valatie, N. Y.
Frederickson, Gustaf Olaf	1920	VI	30 Pilgrim St., Cambridge, Mass.
Freed, Edgar Stanley, B.S., Ch.E., M.S.	Grad.	V	605 Locust St., Knoxville, Tenn.
Freed, Simon	1920	V U.	365 Summer St., Paterson, N. J.
Freeman, Alden, A.B.	1919	I	541 Ward St., Newton Center, Mass.
Freeman, Evert Wendell	1920	II	235 Arlington Ave., Providence, R. I.
Freeman, Oliver Francis	1919	VI	12 Mystic Ave., Winchester, Mass.
Freeman, Wilbur Herbert	1920	II	8 Humphreys Pl., Dorchester, Mass.
Freeman, William Morten Breakey, ΣX	1920	I	833 Commonwealth Ave., Newton Center, Mass.
French, Everett Ballou	1920	XV	18 Mechanic St., Orange, Mass.
French, Grant Keith	1920	I	35 Victoria St., Lowell, Mass.
Frey, Austin Rogers	1920	I	50 Renner Ave., Newark, N. J.
Friery, John Wetherell	1918	I	169 Chestnut Ave., Jamaica Plain, Mass.
Frost, Robert Burnap	1921	VI	315 High St., Newburyport, Mass.
Frye, Royal Merrill, A.B., A.M.	Grad.	VIII	318 Newton St., Waltham, Mass.
Fuller, Clarence Chisholm	1918	XIV	50 High St., Mansfield, Mass.
Fuller, John Eastman, S.B.	1918	V Sp.	South Essex, Mass.
Fuller, Nelson Monroe	1921	XIII U.	282 Mass. Ave., Cambridge, Mass.
Fuller, Samuel	1918	I	East Bridgewater, Mass.
Fuseya, Giichiro	1918	VIII Sp.	Gifu, Japan
Fynn, George Francis	1921	X	104 Wilson Ave., Rumford, R. I.
Gage, Frank Dana, ΣAE	1921	XIV	Minneapolis, Kansas
Gail, George Philip Landmann, B.S.	1919	II	116 Ridgewood Rd., Roland Park, Md.

Name and Society	Class	Course	Home Address
Gallup, William Albert	1921	V	149 Church St., North Adams, Mass.
Gardner, Curtiss Tarring, ΘX	1921	I	2214 Main St., Buffalo, N. Y.
Garrigus, Alfred Clarence	1920	II	105 High St., Bristol, Conn.
Cartland, Joseph Wolcott	1921	III	9 Merlin St., Dorchester, Mass.
Gartner, Walter Christian Frederick, ΘΞ	1918	I	46 Spring Park Ave., Jamaica Plain, Mass.
Garza, Roberto	1918	XV	Monterrey, Mexico
Gausenberg, Valentin	1920	VI	Odessa, Russia
Gay, Douglas Merrill, B.S.	1918	VII Sp.	East Granby, Conn.
Gee, Richard Hawkins, ΦΣK	1920	II	661 High St., Fall River, Mass.
Geisler, Hugo Paul, Jr.	1919	VI–A U.	Saginaw, Mich.
Gelders, Joseph Sidney	1920	X	1525 Beech St., Birmingham, Ala.
Gelinas, Maurice Edward	1918	VI	666 Merrimack St., Lowell, Mass.
Gelt, Gabriel George, S.B.	1920	I	Havana, Cuba
Gelt, Philip Jesus, S.B.	1921	I	Havana, Cuba
Genaske, Albert	1920	I	266 Commonwealth Ave., Chestnut Hill, Mass.
George, Eldridge Bean	1921		61 Lincoln St., Framingham, Mass.
Germain, Eduardo, Jr.	1920	I	Blanco 803, Valparaiso, Chili
Gibbon, Charles Orlando, B.S., S.M.	1918	VI Sp.	Millville, N. J.
Giddens, Zambry, Jr.	1921	XV U.	4107 East Side Ave., Dallas, Tex.
Gidley, Robert Titus	1918	IV	34 Dorchester St., Springfield, Mass.
Gilbert, Ralph Hallett	1919	VI	709 Webster St., Needham, Mass.
Giles, Ernest Palmer, ΦΔΘ	1918	IV	303 Ave. E., San Antonio, Tex.
Giles, John Morse, ΦΣK	1921	X U.	Amsterdam, N. Y.
Gill, Fred Morton	1920	IV	176 E. Main St., Gloucester, Mass.
Gillett, Laurence Arnold	1919	XI	92 Bromfield St., Newburyport, Mass.
Gilliatt, Leland Warren	1920	X	286 Lynnfield St., East Lynn, Mass.
Giuranovich, Arthur Joseph, Jr.	1918	I	471 Columbus Ave., Boston, Mass.
Given, Frederick James	1919	VI	116 Bedford St., Woburn, Mass.
Givner, Joseph	1920	XIV U.	64 Seaver St., Grove Hall, Mass.
Givotovsky, Victor Timothy	1919	I U.	Petrograd, Russia
Glassett, Alfred Thomas	1920	I U.	37 Foster St., Brighton, Mass.
Gleason, Harold Low	1918	VI	8 Peacevale Rd., Dorchester, Mass.
Gleason, Robert Winfred	1919	I U.	3 Summit St., Framingham, Mass.
Glover, Everett Clifford	1920	X	Depot St., South Easton, Mass.
Godino, Carlos	1919	XIII Sp.	Spanish Naval Commission, New York, N. Y.
Goff, Luther	1921		87 Medway St., Providence, R. I.
Gokey, George Frank, Jr., ΛΧΑ	1920	XIII U.	536 E 2d St., Jamestown, N. Y.
Goldberg, Max	1921	VI	118 Acushnet Ave., New Bedford, Mass.
Goldsmith, Richard Hunt, ΔΨ	1921	XV	103 Waverly Place, New York, N. Y.
Goldstein, Louis Julius	1919	XV	18 Adelaide St., Hartford, Conn.
Goldstein, Maurice, B.S.	1918	Sp.	34 Sargent Court, Lynn, Mass.
Goldstine, Edgar Nathan, B.S., ΣΑΜ	Grad.	I	532 S. 4th St., Terre Haute, Ind.
Goodman, Aaron	1918	VI	34 Fabyan St., Dorchester, Mass.
Goodman, Abraham Harry	1921	X	142 Chelsea St., East Boston, Mass.
Goodrich, Clifford Maxson	1920	U.	54 Lebanon Ave., Pittsfield, Mass.
Goodridge, Maurice Elmer	1919	XV	148 East Foster St., Melrose, Mass.
Goodwin, Harold Lothrop	1920	II U.	133 Ruthven St., Roxbury, Mass.
Goodwin, Thomas Laurence, Jr., ΘX	1919	II	26 Aberdeen St., Newton Hlds., Mass.
Gordon, Ernest Rollin	1921	X	47 Vinson St., Dorchester, Mass.
Gordon, Julius	1921	II U.	10 Anthony St., Franklin, Mass.
Goss, Donald Chapin, ΛΧΑ	1918	IV	39 Deer Cove, Lynn, Mass.
Gosselin, Louis Leon	1921		3 Bunton Park, East Milton, Mass.
Goucher, Charles Louis	1921	XI	15 Central St., Milford, Mass.
Gould, Joseph Herbert, Jr.	1919	II	15 Bruce St., Dorchester, Mass.
Goward, Kenneth Newcombe	1920	XV	274 Appleton St., Lowell, Mass.
Graham, Milford Phillips	1921	X	248 Main St., Waltham, Mass.
Granger, Harry Inwood	1920	VI	South Weymouth, Mass.

Name and Society	Class	Course	Home Address
Graves, Donald Stone	1920	X	51 Verndale St., Brookline, Mass.
Gray, Charles Harry Grace	1918	VI	36 Alpha Road, Dorchester, Mass.
Gray, Harland Alexander, ΦΓΔ	1920	XV U.	1368 Commonwealth Ave., Allston, Mass.
Gray, John Allen	1921	X	374 Fellsway East, Malden, Mass.
Greely, George Bennett	1921	XIV	10 Ainsley St., Dorchester, Mass.
Green, George Nelson	1920	II U.	215 Highland Ave., Syracuse, N. Y.
Green, Grant Dickson	1920	X U.	215 Highland Ave., Syracuse, N. Y.
Green, Heland Joseph	1920	I	359 Walker St., Lowell, Mass.
Green, John Beach	1921	V U.	Booth St., Ashtabula, O.
Green, Manuel Mendis	1921	V	40 Market St., Cambridge, Mass.
Greene, Albert Beale	1920	I	3027 N St., Washington, D. C.
Greene, Clark Doane, ΣΑΕ	1921	X	53 Granite St., New London, Conn.
Greenleaf, Earl Austin	1918	I	11 South St., Woburn, Mass.
Greenwood, Tancred Spencer	1920	XIII	82 Graham St., Gardner, Mass.
Griebel, Frederick William	1919	II	363 Highland Ave., Somerville, Mass.
Griffin, Roland Babson	1921	XV	305 Washington St., Gloucester, Mass.
Griffin, Sidney Payson	1920	I	19 Sargent St., Winthrop, Mass.
Griffith, Hurley Gray	1921	XIV U.	1401 N. Florence St., El Paso, Tex.
Grimmons, John Aldrich	1921	VI	72 Thurston St., Somerville, Mass.
Griswold, Harold Deane	1921	XV	Buckland, Mass.
Grohe, Robert Ferdinand	1918	VI	3 Westerly St., Roxbury, Mass.
Groisser, Bennett Meyer	1920	VI	48 Devon St., Roxbury, Mass.
Gross, Donald Ivison	1921	X U.	12 Merrill St., Cambridge, Mass.
Grosscup, Henry Arthur	1920	XIII	17 N. 30th St., Camden, N. J.
Grossman, Alfred Paul	1918	III U.	18 Holbrook Court, Melrose, Mass.
Grover, Newell Arthur, ΘΞ	1920	I	55 Evergreen Ave., Rutland, Vt.
Grunsfeld, Ernest Alton, Jr.	1918	IV	2 W. 88th St., New York, N. Y.
Guckes, Philip Exton	1921	X U.	6424 Boyer St., Mt. Airy, Pa.
Guffey, Francis Amsden	1921	XIII U.	Clyde, Ohio
Guild, Joseph Henry, ΘΔΧ	1921		Rupert, Vt.
Gundry, Willoughby Devin, ΖΨ	1921	X	6903 Euclid Ave., Cleveland, O.
Gustaveson, John Warren	1918	VI	Box 258, Norfolk, Va.
Gwynn, Herbert William	1921	II	Holliston, Mass.
Hackett, Robert Prescott, ΑΤΩ	1919	II	108 Corey St., West Roxbury, Mass.
Hadden, Weston, ΑΤΩ	1920	VI U.	1716 Albemarle Rd., Brooklyn, N. Y.
Haebler, Philip Ebling, ΔΤ	1920	X	32 Mt. Morris Park W., New York, N. Y.
Haertlein, Albert, A.B.	1918	I	730 Dover Place, St. Louis, Mo.
Hafner, Victor Leonard Simon	1918	IV U.	34 Appleton St., Boston, Mass.
Hagerton, Walter Charles	1921	VI	7 Sachem St., Roxbury, Mass.
Haigh, Edwin Randolph	1921		136 State St., Newburyport, Mass.
Haines, Henry R.	1921	VI U.	54 El Camino Real, Berkeley, Cal.
Haines, William Thomas, B.S.	Grad.	VI	52 Lee St., Cambridge, Mass.
Hale, Annie Pierce	Grad.		529 Chestnut Hill Ave., Brookline, Mass.
Halfacre, George Frederick	1918	III	63 St. Germain St., Boston, Mass.
Halkiopulos, George, C.E.	1919	I	Athens, Greece
Hall, Clyde Keith	1920	II U.	69 Central St., Ipswich, Mass.
Hall, Daniel Clifton	1919	X	62 Fairmont St., Arlington, Mass.
Hall, George Linwood	1920	XIV	177 West St., Mansfield, Mass.
Hall, Merton Colvin	1920	VI	52 West Park St., Brockton, Mass.
Hall, Roger Tryon	1919	XI	62 Fairmont St., Arlington, Mass.
Hall, Walter Turnball, ΚΣ	1919	X U.	Glencoe, Ill.
Hallaren, Jeremiah Aloysius	1920	IV Sp.	241 Walnut Ave., Roxbury, Mass.
Hallinan, Clement Joseph	1920	I	67 Beaver St., New Britain, Conn.
Haltermann, Henry Langdon, ΦΣΚ	1921	I U.	135 Aycrigg Ave., Passaic, N. J.
Hamburger, Mark V.	1921	X	Cincinnati, Ohio
Hamburger, Walter Julian	1921	X	56 Charlotte St., Dorchester, Mass.
Hamilton, Albert Eccles, ΔΨ	1921	II	162 E. Genesee St., Auburn, N. Y.

Name and Society	Class	Course	Home Address
Hamilton, Arthur Leo	1918	II	718 Commonwealth Ave., Boston, Mass.
Hamilton, Laurens Morgan, ΔΨ	1921	XV	Sterlington, N. Y.
Hammond, Carl Wing	1920	II U.	45 Beech St., Quincy, Mass.
Handy, William Russell	1920	II	Manville, R. I.
Hanley, Albert Joseph	1921	X	79 Jewett St., Newton, Mass.
Hanley, John Merrill	1918	I	30 Woodford St., Dorchester, Mass.
Hanscom, Clarence Dean, A.B.	1918	XIII Sp.	1557 Blue Hill Ave., Mattapan, Mass.
Hanson, Howard Edward	1921	II	88 Harvard Ave., West Medford, Mass.
Hanson, Paul Landers	1921	II	100 Fairview Ave., Belmont, Mass.
Hardy, Arthur Cobb, A.B.	Grad.	VIII	2909 Ashby Ave., Berkeley, Cal.
Harmon, Lawrence Eugene, Jr., ΔΨ	1921	X	526 Beacon St., Boston, Mass.
Harper, Carl Brown, A.B., B.S.	Grad.	Aero Eng.	Elkins, West Va.
Harrall, Edwin Russell, ΘΔΧ	1918	I	77 Everett Ave., Providence, R. I.
Harrington, Elliott Dean, B.S., ΒΘΠ	1918	VI	Elkhorn, Wis.
Harris, Lawrence Isaac	1920	X	43 Copeland St., Roxbury, Mass.
Harris, Louis Barrett	1920	VIII U.	211 Delaware Ave., Wilmington, Del.
Harrop, James, ΦΣΚ	1920	X	11 Briggs St., New Bedford, Mass.
Harshowitz, Louis	1920	XIV U.	36 Howard St., New London, Conn.
Hart, Clarence Dunbar, S.B.	1918	S.H.O. Sp.	35 Charnwood Rd., West Somerville, Mass.
Hart, Morris	1921	X U.	44 Devon St., Roxbury, Mass.
Hartley, William Elmo, A.B.	1918	X	Springfield, Mo.
Hartman, George Orrin, ΔΤΔ	1921	I U.	33 Lincoln St., Spencer, Mass.
Harvey, Alexander Duer, ΣΑΕ	1921	X	Merrick, Long Island, N. Y.
Harvey, Arthur Ross	1920	U.	Middletown, O.
Harvey, Joel Demetrius	1921	II	5724 Kenwood Ave., Chicago, Ill.
Harvey, Theron Finson	1920	II	1030 Washington St., Gloucester, Mass.
Haskel, Robert William	1921	X	1422 Commonwealth Ave., Brighton, Mass.
Haskell, Henry Carvill, A.B., ΘΔΧ	1920	XIII U.	72 Federal St., Brunswick, Me.
Hasslacher, Carl Alfred	1920	X	400 W. 147th St., New York, N. Y.
Hassold, Victor C.	1921	II U.	107 Gowen Ave., Mt. Airy, Pa.
Hatch, Philip Higinbotham	1921	VI	140 S. Allen St., Albany, N. Y.
Hatheway, Donald Horatio	1921	VI	54 Flint St., Somerville, Mass.
Hauber, Joseph George	1921	XIII	390 Warburton Ave., Hastings-on-Hudson, N. Y.
Hawes, Munroe Chapin	1921	X	357 Springfield St., Chicopee, Mass.
Hayden, Albert Cameron	1921		25 Alpha Rd., Dorchester, Mass.
Hayes, Stuart Jackson	1919	VII	95 Bradford St., Everett, Mass.
Hays, James, ΑΤΩ	1921	X U.	234 E. Federal St., Youngstown, O.
Hayward, Roger	1921	IV	101 Court St., Keene, N. H.
Hayward, Sumner	1921	X	20 Highland Terrace, Brockton, Mass.
Haywood, Edward William	1921		11 Harwood St., Lynn, Mass.
Hazard, Schuyler, Jr., ΒΘΠ	1921		180 S. Main St., Albion, N. Y.
Hazelet, Craig Potter, B.S.	1918	I Sp.	Cordova, Alaska.
Healy, Howard Raymond	1921	XV	14 Washington Ave., Chelsea, Mass.
Heath, Elmer Hinckley, Jr., S.B.	Grad.	VII	72 Minot St., Neponset, Mass.
Hedberg, Harold Frederick	1920	II	8 Evelyn Ave., Malden, Mass.
Hedin, Conrad Hanson, ΘΔΧ	1920	VI U.	367 Harvard St., Cambridge, Mass.
Hedlund, Wilhelm Theodor, ΑΤΩ	1920	XIII	54 Lowden Ave., West Somerville, Mass.
Helmrich, Emil Robert	1919	V U.	102 Leighton St., Fitchburg, Mass.
Helrich, Carl Sanfrid	1919	I U.	139 Bucknam St., Everett, Mass.
Hemeon, James Russell	1920	X U.	9 Standish St., Dorchester, Mass.
Hennessy, Daniel Joseph	1920	I	16 Henry St., Brookline, Mass.
Hennessy, John Francis	1921	I	16 Henry St., Brookline, Mass.
Herczel, Richard Edmund	1920	X	930 Sunnyside Ave., Chicago, Ill.
Herfurth, Walter Robert	1918	XIII U.	70 Batavia St., Boston, Mass.
Herman, Ervine Olney	1918	VIII U.	1061 Beacon St., Brookline, Mass.
Hermann, Erwin Robert, ΔΧΑ	1921	II U.	716 E. Ludington Ave., Ludington, Mich.

Name and Society	Class	Course	Home Address
Hermann, Frederick Hunt	1921	VII	608 Franklin St., Melrose Hlds., Mass.
Herrick, Charles Merton	1919	VI	St., Ward Hill, Mass.
Herron, John Cuthbert, ΔΨ	1921	III	Telluride, Colo.
Hershenson, Bert Barnet	1921	V	444 Bryant St., Malden, Mass.
Herzog, Herman Alfred, ΚΣ	1919	X U.	221 Prospect St., Lawrence, Mass.
Herzstein, Joseph, S.B.	Grad.	VII	30 W. 118th St., New York, N. Y.
Hewes, Frederick Roy	1919	I	1841 Hyde Park Ave., Hyde Park, Mass.
Hewitt, Perry Anderson, ΑΧΑ	1918	V	Box 646, Montgomery, Ala.
Heyl, Robert Chapman, Jr., A.B.	1918	VI	Wynnewood, Pa.
Heyman, Samuel	1919	II	221 Goodwin Ave., Detriot, Mich.
Hickey, Francis Leo	1921		22 Pine St., Milford, Mass.
Hickey, Thomas Francis	1920	II	210 Harvard St., Dorchester, Mass.
Hickman, Ernest Trammel	1918	II U.	Lake Wales, Florida
Higgins, Allen Franklin	1921		25 Berkeley St., Somerville, Mass.
Higgins, Frederick Augustine	1921	XI	9 Currier St., Lawrence, Mass.
Higgins, Joseph	1919	II U.	1 Leonard Ave., Cambridge, Mass.
Hill, Charles Arthur, Jr.	1921	X	41 Ashmont St., Ashmont, Mass.
Hill, Francis Thomas	1920	II U.	45 Sherman St., Canton, Mass.
Hill, Kenneth Vinton	1921	VIII	6 Walnut St., Southbridge, Mass.
Hill, Sanford John	1921	X U.	140 Seymour Ave., Newark, N. J.
Hills, Henry Willard	1920	VI	174 Vine St., Everett, Mass.
Hindes, Barrett Grout, ΦΚΣ	1921	I	2519 Broadway, San Francisco, Cal.
Hines, John Jerome, Jr., ΔΤΔ	1921	XV	900 Lincoln Place, Brooklyn, N. Y.
Hingston, Townsend Hill	1920	X	38 Davis St., Wollaston, Mass.
Hirsch, George Berner	1919	II	2336 Shady Ave., E., Pittsburgh, Pa.
Hitchcock, Lauren Blakely	1920	X	Hillside Terrace, Belmont, Mass.
Hobson, Theodore Foster, ΔΤΔ	1921	II	164 Holyrood Ave., Lowell, Mass.
Hoffman, Alfred George	1919	VI–A.	R. F. D. 78, Bolton, Mass.
Holmes, Francis Oliver	1921	VII	82 Magazine St., Cambridge, Mass.
Holmes, Phillip Bradford	1921	VI	21 Rockledge Rd., Newton Hlds., Mass.
Holmgren, Richard Sigfrid, ΑΧΑ	1919	I U.	32 Pleasant View Ave., East Lynn, Mass.
Holt, James	1919	II	South Somerset, Mass.
Holt, Wilfred Reynolds	1918	X	East Haven, Conn.
Homer, Thomas Johnston, Jr.	1921		4 Linwood Sq., Roxbury, Mass.
Homerberg, Victor Oliver	1921	X	133 Peterborough St., Boston, Mass.
Honig, Albert Ralph, Jr.	1920	VI	614 Westford St., Lowell, Mass.
Honiss, William Tibbits, ΘΧ	1920	II	102 Huntington St., Hartford, Conn.
Hooper, Benjamin Morris	1919	II	112 Beach St., Wollaston, Mass.
Hooper, Wilford Priest, ΦΣΚ	1920	IV	Maynard, Mass.
Hoops, Lloyd French	1921		99 High St., Middleton, Conn.
Hopkins, Frank Herbert	1918	I	85 W. Water St., Rockland, Mass.
Hopkins, George Harold	1920	II	138 N. Catalina Ave., Pasadena, Cal.
Horowitz, Murray Philip, B.S.	Grad.	VII	1024 Simpson St., Bronx, New York, N. Y.
Horton, Freeman Hudson	1919	I	Bradentown, Fla.
Hotchkin, James Rowland, ΧΦ	1921	II	183 Claremont Ave., Montclair, N. J.
Hough, Alfred William	1919	XIII U.	152 Hayward St., East Braintree, Mass.
Howard, Alan Frank	1918	XV	48 Nashua St., Woburn, Mass.
Howard, Edmund Irving	1921	XIII	69 High St., Everett, Mass.
Howard, Edward Millard	1920	X	404 Main St., Danbury, Conn.
Howard, Paul Henry	1918	XV U.	48 Nashua St., Woburn, Mass.
Howe, Julian Cheever, ΦΚΣ	1918	XV	Cohasset, Mass.
Howe, Malcolm Stuart	1920	XIII U.	208 Edgehill Rd., East Milton, Mass.
Howe, Paul Corson	1921	I	24 Spencer Ave., West Somerville, Mass.

Name and Society	Class	Course	Home Address
Howe, Wallace Leslie	1921		105 Palfrey St., Watertown, Mass.
Howes, Homer Vernon	1920	I	173 N. Common St., Lynn, Mass.
Howitz, William Gilbert	1921		79 South St., New Bedford, Mass.
Hoye, Stephen Aloysius	1918	XV U.	1016 Washington St., Dorchester, Mass.
Hoyt, Frank Clark, ΘX	1919	V U.	4425 Greenwood Ave., Chicago, Ill.
Hsu, Chuan Yuan	1918	I	Peking, China
Hsu, Yun-chung	1918	XIV	Nanking, China
Hsueh, Cho-pin, B.S.	Grad.	I	Anhui, China
Hsueh, Kwei Lun, E.M.	Grad.	III	Wusih, China
Hu, Kuang Piao	1919	VI–A.	Tientsin, China
Huang, Chi Yen	1919	I	Canton, China
Huang, Shong-Heng, S.B.	Grad.	Aero Eng.	Yang Chow, China
Huckins, Edgar Wolcott	1918	XV	40 Crawford St., Roxbury, Mass.
Hudnut, Frank Parker, Jr., ΦΣK	1920	VII	155 William St., New Bedford, Mass.
Huggins, Frank Ellsworth, Jr., ΛXA	1921	X	102 Latta Ave., Columbus, O.
Hughes, Thomas Joseph	1920	XV	181 Cabot St., Newton, Mass.
Hughes, Thomas Lewis	1920	I U.	50 Eliot St., Canton, Mass.
Hugo, Ottomar Gay, ΘΔX	1918	II	Dilley, Texas
Hull, John Thornton	1921		84 Grove Ave., Leominster, Mass.
Hulseman, Giles Daniel, KΣ	1918	VI	3428 Wyandotte St., Kansas City, Mo.
Humphreys, Edward Twining	1920	V U.	157 W. 72nd St., New York, N. Y.
Hung, Shao Yu	1919	X	Ningpo, China
Hunt, Franklin Bicknell	1920	II	259 Humphrey St., Swampscott, Mass.
Hunter, Frederick Lincoln, Jr.	1919	XIV U.	715 N. St., Vrain St., El Paso, Tex.
Hunter, Harold Frierson, ΣAE	1920	XIII U.	Pinckney St., Boston, Mass.
Hunter, Norman Williams	1921	I	Technology Chambers, Boston, Mass.
Huntington, Dana Charles, BΘΠ	1921	II	Danville, N. H.
Huntress, Ernest Hamlin	1920	V	14 Porter St., East Lynn, Mass.
Hurley, John Louis	1921	XV U.	180 Pond St., Jamaica Plain, Mass.
Hurun, Fredrik Jörgen Ording, Met. Eng.	Grad.	III	Christiania, Norway
Hussey, Warren McKeen, ATΩ	1920	X	321 Deming St., Terre Haute, Ind.
Hutchings, George Bradfield, Jr., ΦΣK	1918	II	123 Prospect St., Stamford, Conn.
Hutchinson, Edward Howard	1918	IV	10 Sparhawk St., Brighton, Mass.
Hyland, William Leo	1921	VI U.	76 Blodgett St., Manchester, N. H.
Ilsley, Charles Hale	1919	II	42 North Ave., Melrose Hlds., Mass.
Imhoff, Willard Earl, ΘΔX	1918	II	1117 Proctor St., Port Arthur, Tex.
Ingram, John William	1921		57 Eastern Ave., East Lynn, Mass.
Insley, Robert, B.S.	1919	II	Nanuet, N. Y.
Iredell, Leslie Newbold	1918	IV Sp.	Austin, Texas
Ireland, William H.	1920	U.	319 Ward St., Newton Center, Mass.
Irwin, William Henry	1921	XV	43 Highland Ave., Newtonville, Mass.
Isenberg, Joseph Meyer	(Intensive)	XIII	80 Green St., Boston, Mass.
Ito, Masaki, Min. Eng.	1918	III Sp.	Osaka, Japan
Jackson, Arthur Lawrence	1921	XIII	42 Trenton St., Melrose, Mass.
Jackson, Edward Wood, AΦ	1921	II	34 Parker St., Lexington, Mass.
Jackson, Leslie Allerton	1919	XI	63 Bigelow St., Lawrence, Mass.
Jacobs, Brainerd Maurice	1921		Lebanon, N. H.
Jacobs, Sidney Joseph	1919	X U.	404 Napier Ave., Richmond Hill, N. Y.
Jakobson, Irving Daniel, ΔT	1921	XIII	370 Senator St., Brooklyn, N. Y.
James, Donald Denny, XΦ	1921	X U.	256 Park St., Newton, Mass.
James, Locke LeBaron	1920	X	678 Pleasant St., Brockton, Mass.
Jamieson, George Roberts, ΣX	1921	II	966 Manhattan Ave., Dayton, O.
Jason, Justin Francis	1921	I U.	403 Commercial St., Provincetown, Mass.

Name and Society	Class	Course	Home Address
Jenney, Melvin Richard	1921	VIII	12 Porter St., Melrose, Mass.
Jensen, Andrew Carl	1921	XV	32 Sawin St., Natick, Mass.
Jensen, Harold Camillo	1920	XV U.	302 Estill Ave., Savannah, Ga.
Jenson, Martin	1921		27 Grant Ave., Yonkers, N. Y.
Jermain, Herbert Foster, ΣΧ	1918	XIV U.	276 Summer St., Stamford, Conn.
Jetter, Karl	1921	I	23 Wellington St., Boston, Mass.
Johansen, Charles John Christian	1918	VI	42 Pierce Ave., Dorchester, Mass.
John, Aristotle Peter	1921	V	119 Howland St., Roxbury, Mass.
Johns, Alfred Augustus, A.B.	1919	XI Sp.	11 Maryland St., Rochester, N. Y.
Johnson, Alfin, B.S.	1918	I U.	Honolulu, T. H.
Johnson, Algot Julius	1921		61 Gloucester Ave., Gloucester, Mass.
Johnson, Andrew Ture, ΘΞ	1920	I U.	27 Topliff St., Dorchester, Mass.
Johnson, Arthur Sanborn	1919	XIV	50 Woodland St., Newburyport, Mass.
Johnson, Carl Augustinus	1921	IV U.	119 West St., Brattleboro, Vt.
Johnson, James Fanshee, ΣΧ	1920	XV U.	132 S. Boylan Ave., Raleigh, N. C.
Johnson, Rogers Bruce, S.B.	1919	I	50 Renner Ave., Newark, N. J.
Johnson, Russell Carl	1921	III	37 Arthur St., Quincy, Mass.
Johnson, Sigurd	1921	XIII	Box 16, North Pembroke, Mass.
Johnson, William Sanborn	1920	V	45 Washington St., Newburyport, Mass.
Johnston, Harold Clement	1921		North Easton, Mass.
Jones, Bertram Francis	1919	V	637 Shawmut Ave., Boston, Mass.
Jones, Edward Vaughan, ΔΤΔ	1920	II U.	151 Washington St., Cumberland, Md.
Jones, Jesse Elias, Jr.	1921	II U.	1210 Howard Ave., Utica, N. Y.
Jones, Samuel Murray	1921	VI U.	263 18th Ave., Paterson, N. J.
Jones, Townsend Sennet	1921	II U.	24 Prospect Ave., Larchmont, N. Y.
Jones, William Alfred	1918	I	42 Bigelow St., Cambridge, Mass.
Joslin, Asher Winthrop, ΘΧ	1918	I	134 Stratford St., West Roxbury, Mass.
Juel, Odd	1921	XV	Vinderen, Norway
Junod, Henri Pell, ΘΔΧ	1921	III U.	Vanderbilt Hotel, New York, N. Y.
Juthe, Stanley Norman	1921	II	261 Homer St., Newton Center, Mass.
Kahn, George, ΣΑΜ	1919	VII	117 Chambers St., Boston, Mass.
Kahn, Leo David	1920	X	3 Morse St., Dorchester, Mass.
Kain, George Alexander	1920	VI	Stevensville, Mont.
Kaiser, John Harold	1919	X	Marietta, Ohio
Kaiser, Karl Herman, ΑΧΑ	1918	IV	18 Haviland St., Boston, Mass.
Kanai, Buichi	1920	Sp.	Ngano, Japan
Kaplan, David Julius	1920	X	149 Remington Ave., Somerville, N. J.
Kaplan, Maurice James	1921	XV U.	21 Wabeno St., Roxbury, Mass.
Karnig, Elias Sehag, B.A.	1920	I U.	Kesirig, Armenia
Kasch, Richard Monroe, B.S., ΚΣ	1920	II	131 N. College St., Akron, O.
Katz, Harry Leon, ΦΕΠ	1918	I	100 Granville Ave., Malden, Mass.
Kaufman, Joseph	1919	VI–A.	12 Browning Ave., Dorchester, Mass.
Kaufman, Joseph George	1921	X	199 Westville St., Dorchester, Mass.
Kaufman, Samuel Albert	1919	X	34 Newton St., Malden, Mass.
Kaupe, Arthur Friedrich, ΘΧ	1920	X	Grymes Hill, Staten Island, N. Y.
Kayser, Wendell Howard, ΦΣΚ	1918	II	3636 4th St., San Diego, Cal.
Keach, Leon, S.B.	Grad.	IV	1595 Beacon St., Brookline, Mass.
Kearney, Maurice De LaSalle	1921	VI U.	101 Blodgett St., Manchester, N. H.
Keating, Clarence Edward	1920	XV U.	893 Seaview Ave., Bridgeport, Conn.
Keeler, Harold Young	1918	XV U.	Ridgefield, Conn.
Keats, John	1919	X U.	299 29th St., Milwaukee, Wis.
Keith, James Burrell	1921		Elmwood, Mass.
Keith, Scott, ΔΚΕ	1919	I	20 Hartford St., Newton Hlds., Mass.
Kellar, John William, ΔΚΕ	1920	I U.	174 Webster St., West Newton, Mass.

Name and Society	Class	Course	Home Address
Kelley, Joseph Aloysius	1918	X	9 Hawthorne St., Haverhill, Mass.
Kelley, Leo Alexis	1919	VI	30 Cleveland St., Arlington, Mass.
Kelly, Thomas Patrick	1918	X	15 Pond St., Jamaica Plain, Mass.
Kelsey, Alton Stuart	1919	V U.	24 James Ave., Winthrop, Mass.
Kelsey, James Robert	1921	III	42 Morning St., Portland, Me.
Kemkemian, Bedros, B.A.	1919	II	Cairo, Egypt
Kenison, Arthur Cilley	1919	VI	48 Franklin St., Watertown, Mass.
Kenison, Ervin Montague	1919	XV	48 Franklin St., Watertown, Mass.
Kennard, John William Bennett	1918	VI	15 Folsom St., Dorchester, Mass.
Kennedy, Charles Thomas	1919	I & XI	29 Wellington St., Boston, Mass.
Kennedy, Parker Henry, ΑΤΩ	1918	II	2 Alden St., Middleboro, Mass.
Kennedy, Robert	1921	X	66 Camden St., Methuen, Mass.
Kepner, Harold Raymond, A.B., ΦΔΘ	1919	XI U.	1720 Hudson St., Denver, Colo.
Kerrigan, Ambrose Lawrence	1921		3 Blossom St., Woburn, Mass.
Kiaer, Herman Severin	1921	XV	Bestum, Norway
Kilduff, John West	1919	XI	354 Columbus Ave., Boston, Mass.
Kiley, Albert James	1921	II	11 Morton St., Somerville, Mass.
Kiley, John Timothy	1918	VI	11 Morton St., Somerville, Mass.
Kilgore, Harold Dustin	1918	I	20 Exchange St., Gloucester, Mass.
Kimball, Donald Butler, ΑΣΦ	1920	X	1819 Monroe St., Washington, D. C.
Kimball, Wirt Fuller	1919	XV	210 Winthrop Rd., Brookline, Mass.
King, Ping Sze	1919	II	Chekiang, China
King, Reginald Willard	1921	VI	12 Chelmsford St., Dorchester, Mass.
Kinghorn, Archibald Hendrie, Jr., ΘΔΧ	1920	VI	204 Bailey St., Lawrence, Mass.
Kingman, Fred Russell	1921		35 Thacher St., Medford, Mass.
Kirby, Frank Henry	1921	XV	172 Maple St., Danvers, Mass.
Kirkpatrick, Austin Nugent	1921	X	18 Howard St., Holyoke, Mass.
Kitson, Sydney William	1920	XI	12 Grove St., Greenfield, Mass.
Kittredge, Francis Bowen, ΧΦ	1921	I	69 Cypress St., Brookline, Mass.
Kittredge, Walter Wilson	1921	I	1 Beasom Block, Nashua, N. H.
Kjaer, Homo John	1920	VI	73 Spring Park Ave., Jamaica Plain, Mass.
Kleinschmidt, Helen, A.B.	1919	IV U.	523 Highland Ave., Johnstown, Pa.
Knight, Chesterton Stevens, ΒΘΠ			141 Moraine St., Brockton, Mass.
Knight, Elliott Preston	1921		21 Bromfield St., Newburyport, Mass.
Knight, George Roger, ΒΘΠ	1920	XI U.	141 Moraine St., Brockton, Mass.
Knobel, Max	1919	XIV	75 Allen St., Walpole, Mass.
Knowland, Thomas Millbury	1918	X	49 Green St., Newburyport, Mass.
Knowlton, Millard, M.D.	1918	S.H.O. Sp.	Trenton, N. J.
Knox, Cornelius Van Santvoord, A.B., ΘΧ	1918	I	175 Livingston Ave., New Brunswick, N. J.
Knox, Merrill B., ΔΤΔ	1920	II U.	227 N. Central Ave., Chicago, Ill.
Knudsen, Rolf	1918	XIV	Borgestad, Norway
Kohl, William Corydon	1921	VI	75 Richardson Rd., Melrose Hlds., Mass.
Kopsch, Hermann Josef Gustav	1921	XV	196 Huntington Ave., Boston, Mass.
Kosicki, Witold W.	Grad.		Russia
Krantz, Hubert Kolle, ΒΘΠ	1920	XV	183 Argyle Rd., Brooklyn, N. Y.
Krasnoff, Nathaniel	1918	VI	Union, S. C.
Krebs, Carlos	1919	XIII	31 Robinwood Ave., Jamaica Plain, Mass.
Kreeger, Armand St. Martin, ΦΣΚ	1920	XIII U.	1706 Dupossort St., New Orleans, La.
Kruse, Albert, ΦΚΣ	1920	IV U.	2212 Gilpin Ave., Wilmington, Del.
Kruse, Victor Nason	1921	II	Strasburg, Colo.
Kuljian, Harry Asdour	1919	VI U.	Aintab, Turkey
Kurth, Henry Louis Reinhold	1921	VI	126 Columbia St., Cambridge, Mass.
Kwan, Sung Sing	1919	IV	Tientsin, China

Name and Society	Class	Course	Home Address
Lacey, Henry Richard	1918	I	20 Sargent Ave., Somerville, Mass.
Lafean, Raymond Guy, ΦΣΚ	1919	X U.	175 S. Pine St., York, Pa.
Lambert, Laurence Emil	1920	X	Broadway, Haverhill, Mass.
Landis, Henry Neuman, ΦΒΕ	1921	X	5000 Drexel Blvd., Chicago, Ill.
Landis, Maurice Neuman, Ph.B.	1918	III	5000 Drexel Blvd., Chicago, Ill.
Lane, Frederic Allen	1918	VI	7 Madison Ave., Gloucester, Mass.
Lane, Henry Milton	1921	VI	27 Linnaean St., Cambridge, Mass.
Langille, Wilfred Otto	1919	VI U.	148 Paul Gore St., Jamaica Plain, Mass.
Lapointe, Alexandre James	1921	X U.	9 Myrtle Ave., Holyoke, Mass.
Lariviere, John Bantista	1920	VI	205 Lawton St., Fall River, Mass.
Larner, Edward Atkins	1921		948 Mass. Ave., Cambridge, Mass.
Larner, Herbert Beamish	1918	VII	948 Mass. Ave., Cambridge, Mass.
Larsson, Lars Emil Gano, ΦΣΚ	1921	X	602 Central Ave., Plainfield, N. J.
Laskey, William Gallup	1918	XIII Sp.	Hotel Puritan, Boston, Mass.
Lau, Sik Kei	1919	VI U.	12 Pell St., New York, N. Y.
Lavedan, Pierre Francis	1920	X U.	910 N. Solomon St., New Orleans, La.
Lawrence, Arthur Neal	1921	U.	Rockland, Me.
Lawthers, Robert Joseph	1921	VI	292 Broadway, Cambridge, Mass.
Lawton, Frank Watson, ΘΧ	1920	VI	122 Lincoln St., Newton Hlds., Mass.
Layng, Edward Crippen, ΛΦ	1919	III U.	Forest Drive, Short Hills, N. J.
Lazo, Frank	1921	IV	58 Lucerna, Mexico City, D. F., Mexico
Leach, Ralph Weston, ΛΧΑ	1921	X	1 Fortesque Terrace, Lynn, Mass.
Leahy, William Joseph	1919	II U.	Main St., Randolph, Mass.
Leander, Carl Hilding	1920	XV	145 Whitwell St., Quincy, Mass.
Leander, Carl Thorsten	1920	X	11 Nightingale St., Dorchester, Mass.
Lee, James Augustin, B.S., B.A.	Grad.	V	New Iberia, La.
Lee, John Glessner	1921	II	Littleton, N. H.
Lee, Kuangtao Tsufan	1919	XV	Shanghai, China
Lee, Marshall Baldwin, ΘΧ	1919	II	276 Chestnut St., Clinton, Mass.
Lee, Myron Harry, ΘΞ	1920	XI U.	Riverhead, N. Y.
Lee, Richard	1921	III U.	2670 Pierce St., San Francisco, Cal.
Lee, Sam	1921	VI U.	Canton, China
Lee, Wee Kua	1919	II U.	Chengchow, China
Lee, Ying Fen	1921	X	Peking, China
Lee, Yuan	1920	XIII	Canton, China
Lees, Malcolm Bruce	1920	XV	109 Walnut St., Leominster, Mass.
LeFevre, George Howard, ΘΔΧ	1921	II	18 Florence Ave., Norwood, Mass.
Legge, Elmer Earle	1918	II	90 Harvard St., Brockton, Mass.
Lehmkuhl, Joakim	1918	VI & XV U.	Bergen, Norway
Leland, Gordon Messinger	1921	U.	30 Francis St., Brookline, Mass.
Lemp, Boudy	1919	IV	Buffalo Rd., Erie, Pa.
Leonori, William Henry, Jr., ΔΤΔ	1920	III U.	Smithtown, Long Island, N. Y.
Leslie, John Ronald, ΣΧ	1921	II	83 Grove St., New Haven, Conn.
Lesser, Louis Leopaul	1921	I	90 Endicott Ave., Beachmont, Mass.
Leung, Nai Hang, B.S.	Grad.	VI	Hong Kong, China
Levangie, George Walter	1920	I U.	46 Clark St., Dedham, Mass.
Levin, Harold Lester	1921	X	36 Wave Way Ave., Winthrop, Mass.
LeVine, Harry Carl	1918	II	25 Holbrook Court, Melrose, Mass.
Levine, Leonard Isaac	1918	II	5 Nottingham St., Dorchester, Mass.
Levinson, Samuel	1920	X	80 McLellan St., Dorchester, Mass.
Levy, Edwin	1921	U.	3743 Tracy St., Kansas City, Mo.
Levy, Gustace	1919	X U.	2866 Boulevard, Jersey City, N. J.
Levy, Henry Mannheim	1920	X	137 Hutchings St., Roxbury, Mass.
Lewis, Ralph Raphael	1921	VI	Providence, R. I.
Lewis, Robert Fairn, ΛΧΑ	1919	III	106 Eastern Ave., Lynn, Mass.
Li, Kuo Chou	1921	I	Tientsin, China
Li, Shee-mon	1919	VI U.	Kashai, China
Lichter, Jacob	1919	I	1055 Norka Ave., Akron, O.

Name and Society	Class	Course	Home Address
Lieberman, Maurice Bernard	1920	XIII U.	180 Marteuse St., Brooklyn, N. Y.
Lindgren, Carl Alfon, Jr.	1918	VI	Hathorne, Mass.
Ling, Homer Chuen-cheng, B.A., S.B.	Grad.	II	Amoy, China
Linscott, Chester Earl	1918	V	479 Dudley St., Roxbury, Mass.
Lipp, Morris Nathan	1920	I	146 Bloomingdale St., Chelsea, Mass.
Litchfield, Allyne Cushing, ΔΧΑ	1918	XV	640 Riverside Drive, New York, N. Y.
Little, Charles Edmund	1920	II	95 Malvern St., Melrose, Mass.
Little, Edward Norton, A.B., ΔΤ	1918	VI U.	308 N. Perry Ave., Peoria, Ill.
Little, Harold Greenleaf, B.S.	1918	S.H.O. Sp.	70 Purchase St., Newburyport, Mass.
Littlefield, Arthur Stanley, ΘΞ	1920	X U.	57 Franklin St., Peabody, Mass.
Littlefield, Mendum Bartlett	1920	X	25 Shore Ave., Salem, Mass.
Liu, Gee Call	1918	I U.	Hong Kong, China
Liu, Hsi-ying	1921	VI	Chihli, China
Lloyd, Leon Albertus	1921	II	Mapleville, R. I.
Lloyd, Thomas Morse	1919	VI U.	Portsmouth, Ohio
Lobos, Francisco, B.S.	1919	IV	Santiago, Chili
Lockwood, Ralph Cooper	1920	V	1023 Beacon St., Brookline, Mass.
Loesch, Willard George	1921	III	1441 Cohassett Ave., Lakewood, O.
Logan, John Wood, Jr., ΘΧ	1920	VI	16 Bala Ave., Bala, Pa.
Long, Francis Leroy	1918	II	28 Union St., Lawrence, Mass.
Longfellow, Charles Fremont, Jr.	1921	VI	5515 Potomac Ave., Washington, D. C.
Longley, James Edward	1918	I	709 W. Vine St., Kalamazoo, Mich.
Longley, John Robert	1918	I	709 W. Vine St., Kalamazoo, Mich.
Lord, Erskine Daniel	1920	X	98 Ames St., Lawrence, Mass.
Lord, George Frank, ΘΧ	1921	XV	427 Main St., Athol, Mass.
Lord, William Mason Bradley	1918	XV U.	461 Walnut Ave., Jamaica Plain, Mass.
Lorenz, Otto Carl, ΦΒΕ	1918	IV	512 Quincy Ave., Scranton, Pa.
Loring, Warren Edward	1919	II	9 Cedar St., Charlestown, Mass.
Loucks, Milton Albert	1919	VI U.	277 W. Fulton St., Gloversville, N. Y.
Loutski, Robert, B.S.	1919	VI U.	50 Ivy St., Boston, Mass.
Lovejoy, Donald Hill	1920	IV U.	38 Pleasant Ave., Portland, Me.
Lovejoy, Henry Foster	1920	II	Union St., Milford, N. H.
Lovis, Donald Blanchard	1921	XV	26 Adelaide St., Jamaica Plain, Mass.
Low, Joseph, A.B.	(Intensive)	XIII	68 Allen St., Boston, Mass.
Lowell, Ernest Cuthbert, ΣΝ	1920	II U.	32 Irving St., West Medford, Mass.
Lowenthal, Jules	1920	XV U.	1725 Sterling Place, Brooklyn, N. Y.
Lucas, John	1920	I	86 Eastern Ave., East Lynn, Mass.
Luce, Robert Ellinwood	1921	II	44 Main St., Waterbury, Vt.
Luce, Willis Chaffee	1920	I U.	Vineyard Haven, Mass.
Luke, Winthrop Earle	1921	IV	19 Kerwin St., Dorchester, Mass.
Lundquist, Arthur	1919	XIII U.	146 Draper St., Dorchester, Mass.
Lurie, Joseph	1921	X	282 Walnut Ave., Roxbury, Mass.
Lyman, Donald Franklin	1921	II	52 Spencer St., Winsted, Conn.
Lynch, John Pobah	1921	VI	260 Geneva Ave., Dorchester, Mass.
Lyons, John Joseph	1920	VI	23 Frederika St., Dorchester, Mass.
Mabee, Fred Carleton, A.B., A.M.	Grad.	V	47 Addington Rd., Brookline, Mass.
MacAlister, Alexander Goodall, Jr.	1918	VI	580 Federal St., Camden, N. J.
McAllister, Paul	1918	XIV	94 Central St., Auburndale, Mass.
MacArdle, Donald Wales	1918	V	27 Sherwood St., Roslindale, Mass.
MacAskill, Donald	1918	IV	Salem Depot, N. H.
McBroom, Earl Henry	1921	I	703 S. 8th St., Laramie, Wyo.
McCarten, George Clyde, ΣΧ	1919	X	16 Elm St., Lancaster, N. H.
McCarthy, Daniel Edward	1920	XV U.	42 Fairmont Ave., Newton, Mass.
McCausland, John Woods	1918	II	7330 Princeton Ave., Chicago, Ill.
McClellan, James Lewis	1918	V U.	1800 Beacon St., Brookline, Mass.
McClelland, John Margeson	1921	II	20 Burroughs St., Jamaica Plain, Mass.

Name and Society	Class	Course	Home Address
McClintic, Howard Hale, Jr., ΧΦ	1919	I	Beechwood Blvd., Pittsburgh, Pa.
McClintock, Rodman, ΧΦ	1920	XV	805 Amberson Ave., Pittsburgh, Pa.
McCloskey, Lawrence Charles	1920	XIV	14 Ashmont St., Dorchester, Mass.
McCloughan, Charles John	1921		40 High St., North Attleboro, Mass.
McComb, Willis Leonard	1921	X U.	Highland Ave., North Chelmsford, Mass.
McCreery, George William	1919	I U.	900 Plymouth Ave., Fall River, Mass.
McDill, Bruce Magaw, A.B.	1918	XI	Oxford, Ohio
MacDonald, Edmund John	1921	I	28 Ash St., Auburndale, Mass.
MacDonald, H. Douglas	1921	II	95 Renner Ave., Newark, N. J.
McDonald, James William, Jr.	1920	XV U.	23 Prospect St., Marlboro, Mass.
MacDonald, Joseph James	1921	XI	205 Everett St., Allston, Mass.
McEvoy, Joseph Henry, Jr., ΔΚΕ	1921	XV	202 McGowan St., Houston, Tex.
McFarland, David Meconkey, ΒΘΠ	1918	X U.	626 S. High St., West Chester, Pa.
McGill, Charles Frederick	1921	IV U.	66 Pacific St., Rockland, Mass.
McGill, Francis John	1920	XV U.	16 Corona St., Dorchester, Mass.
McGill, Raymond Joseph	1921	U.	37 Maywood St., Roxbury, Mass.
McGorum, William B.	1920	I	Highland St., Natick, Mass.
McGowan, Andrew Joseph	1921	U.	39 Bennington St., Lawrence, Mass.
McGrath, Leigh John	1921	I	126 N. Wolcott St., Casper, Wyo.
McGreenery, Paul Aloysius	1918	II U.	32 Calumet Rd., Winchester, Mass.
MacGregory, Sherman Albert	1918	I	31 Silver Rd., Brockton, Mass.
McGuire, Donald Ball, ΘΔΧ	1920	VI	River St., New Berlin, N. Y.
McGuire, Waldemar Stanwood	1918	X U.	78 Highland St., Revere, Mass.
Macheca, George Michael, A.B., ΘΞ	1918	II	3022 St. Charles Ave., New Orleans, La.
McIntosh, Alan Henderson, ΦΓΔ	1920	II U.	29 Westover St., West Roxbury, Mass.
McIntosh, Harold Wales	1919	VI–A.U.	431 Great Plain Ave., Needham, Mass.
McIvor, Carlisle Chandler, ΨΥ	1918	VI	15 Euston St., Brookline, Mass.
McKay, Richard, ΦΓΔ	1921	XV	46 Frances St., Melrose, Mass.
Mackay, William Roy, ΔΧΔ	1919	VI	19 Batavia St., Boston, Mass.
McKeen, William Riley, Jr., ΑΤΩ	1920	VI	428 S. 6th St., Terre Haute, Ind.
McKenney, Walter Raymond	1919	II	157 Cottage St., Bridgeport, Conn
McKinley, Malcolm Robertson	1919	XV U.	474 Beacon St., Lowell, Mass.
MacKinnon, Charles	1921	II	16 Allerton Rd., Dorchester, Mass.
MacKinnon, Joseph Chrisman, S.B.	Grad.	VIII	50 Verndale St., Brookline, Mass.
Maclachlan, Andrew Dugald, Jr.	1921	U.	51 Mount Vernon St., Melrose, Mass.
McLaughlin, Carl Patrick	1918	II	66 Payson St., Portland, Me.
McLaughlin, Edward Henry, B.S.	1918	XV Sp.	2400 S. Figueroa St., Los Angeles, Cal.
McLaughlin, Eugene Reginald	1919	VI U.	South Franklin St., Holbrook, Mass.
McLaughlin, George Edward, ΔΤΔ	1918	II	112 Davis Ave., Brookline, Mass.
McLaughlin, Harold Clarke, A.B.	1918	IV	404 N. Prospect St., Sedalia, Mo.
McLeod, John Gustavus, Jr.	1920	V Sp.	70 Westville St., Dorchester, Mass.
MacLeod, William Donald	1920	I	22 Eaton St., Wakefield, Mass.
McMahon, Thomas Leo	1921	X	11 Hawthorne St., Woburn, Mass.
MacMahon, William Kennedy	1920	II U.	6 Walker Place, Atlantic, Mass.
MacManus, Francis Joseph	1920	I	57 Ashland St., Taunton, Mass.
MacMillin, Howard Francis, ΚΣ	1921	II	217 W. High St., Mt. Gilead, O.
McNally, Edwin Mongan, ΘΞ	1918	II	140 Clark Ave., Chelsea, Mass.
McNaul, James Wilbur	1921	II U.	209 S. Washington St., Butte, Mont.
McNear, George Roger, ΔΚΕ	1920	II U.	191 Auburn St., Auburndale, Mass.
MacNeil, Dan Murdoch, B.A.	1921	III U.	Grand Narrows, N. S.
MacNeil, John Joseph, B.A.	1921	VI U.	Grand Narrows, N. S.
McNellis, James Stanislaus	1921	VI U.	53 Belvidere St., Boston, Mass.
Maconi, Frank	1920	XIII U.	76 Clark St., Newton Center, Mass.
McWane, William	1921	XV	1320 St. Charles St., Birmingham, Ala.
McWhirk, Clara Viola, S.B.	1918	S.H.O. Sp.	42 Mt. Vernon St., Boston, Mass.
Madancy, Sarkis Mardiros	1918	I	Huseying, Armenia
Magee, Francis Joseph	1921		276 Washington St., Taunton, Mass.

Name and Society	Class	Course	Home Address
Magoun, Frederick Alexander	1918	II	70 Kirkland St., Cambridge, Mass.
Magraw, George Frederick	1919	II U.	56 Goldthwaite St., East Lynn, Mass.
Maher, Philip Francis	1919	XIII	16 Harrison St., Newton Hlds., Mass.
Mahoney, Joseph Arthur	1921	X	Rockland, Mass.
Mahoney, Ralph Gerard	1918	II	Sterling Inn, Sterling, Mass.
Maizlish, Israel	1919	U.	40 Blossom St., Lynn, Mass.
Maker, Charles Gilbert, B.S.	(Intensive)	XIII Sp.	1784 S. Main St., Fall River, Mass.
Malley, George Francis	1918	I	45 Summer St., Adams, Mass.
Maloney, Charles William	1920	XIV	103 Montvale Ave., Woburn, Mass.
Mandel, Louis	1921	II U.	118 Avon Ave., Newark, N. J.
Mandelbaum, Isadore	1920	I	29 Spruce St., Lawrence, Mass.
Mandell, Howard Cushman	1921		82 Morgan St., New Bedford, Mass.
Mann, Samuel	1918	VI	120 W. 4th St., Plainfield, N. J.
Manning, Eugene Reynolds, B.S., ΩA	1918	X	1213 Gilpin Ave., Wilmington, Del.
Manny, Constantine Christo	1919	I U.	Koritza, Albania
Manter, Elwood McElwain	1918	II	219 Melrose St., Auburndale, Mass.
Manuelian, Hamazasb Der	1918	XV	291 Central St., Lowell, Mass.
Markus, Fritz Emil	1919	IV Sp.	20 Norris St., Lawrence, Mass.
Marovitz, Herman Joseph	1920	II U.	88 Irving St., Everett, Mass.
Marsh, Arthur James	1919	IV U.	11 Holyoke St., Boston, Mass.
Marshall, Lawrence Parsons	1918	XV	71 Summer St., Everett, Mass.
Marshall, Leslie Howard	1918	X	298 Crescent St., Waltham, Mass.
Martin, Joseph Thomas	1921	VI	906 Northampton St., Wilkes-Barre, Pa.
Martinez, José Felix, B.S.	1920	I U.	El Salvador, C. A.
Martinez, Lauro	1920	VI	Monterrey, Mexico
Martinez, Marcial Ernesto	1919	III U.	Santiago, Chili
Martinson, Oscar Sigfrid	1919	I U.	16 Perrin St., Barre, Vt.
Mason, Maurice	1921	X	36 Lynwood Ave., Holyoke, Mass.
Massey, Henry Peirce	1920	I	234 Harvard St., Brookline, Mass.
Matthews, George Kelly	1920	VI U.	1A W. Grace St., Richmond, Va.
Matthews, Medwin	1920	I	Shawsheen Rd., Andover, Mass.
Mattson, John Benhard	1921	VI U.	R. F. D. 37, Ashby, Mass.
May, Elliot Darwin	1919	II	90 Spruce St., Winchendon, Mass.
May, Joseph Otto, B.S.	(Intensive)	XIII	814 E. 166th St., New York, N. Y.
Mayer, Albert, A.B.	1919	I	41 E. 72nd St., New York, N. Y.
Mayer, David Oscar	1919	III	2085 5th Ave., New York, N. Y.
Maynard, Warren Alston, ΘΔX	1919	XV	135 Home Ave., Rutherford, N. J.
Meader, John, ΦKΣ	1919	XV U.	32 W. 10th St., New York, N. Y.
Means, Leland Munger	1918	XV	229 Stoner Ave., Shreveport, La.
Meissner, William Emil, ΘΔX	1920	IV U.	488 Clinton Ave., West Hoboken, N. J.
Mendinhall, Charles Eli, ΔT	1921	X	1114 Broome St., Wilmington, Del.
Merriam, Harold Wesley	1920	II	59 Independence St., Canton, Mass.
Merrill, Donald Godfrey	1918	II	27 Ingell St., Taunton, Mass.
Merrill, Edgerton, ΔΨ	1921	X	Mamaroneck, N. Y.
Merrill, Herbert Cummings	1919	VII U.	5 Luella Ave., Watertown, Mass.
Merrill, John Ogden	1919	IV	707 Goodrich Ave., St. Paul, Minn.
Merritt, Roswell Augustus, A.B., LL.B., ΦΔΘ	1919	III U.	Macon, Ga.
Merryweather, Weir Orford	1920	VII U.	162 Orange Rd., Montclair, N. J.
Merselis, Stephen Allan, ΦΣK	1919	X U.	145 Pennington Ave., Passaic, N. J.
Mesmer, Aloysius James, BΘΠ	1921	U.	3500 Manitou Ave., Los Angeles, Cal.
Metcalf, Harold Felton	1921	U.	Topsfield Rd., Ipswich, Mass.
Miao, En Chao	1918	I	Kiangsu, China
Michaels, Maurice Alpiner	1919	XV U.	Marion, Ind.
Michelson, George	1919	VI	80 Holworthy St., Roxbury, Mass.
Migone, Rodolfo Jose, C.E.	1918	I Sp.	Buenos Aires, Argentina
Miller, Alan Baldwin, KΣ	1918	XIV U.	115 Catherine St., Elizabeth, N. J.
Miller, Alden Williams, ΘX	1920	XV	16 Chestnut St., Medford, Mass.
Miller, Gillette Niles	1921		67 Kenwood St., Dorchester, Mass.
Miller, Harold Lionel	1918	II	35 Dedham Ave., Needham, Mass.
Miller, Raymond Percy	1918	II	76 Middlesex Ave., Swampscott, Mass.

Name and Society	Class	Course	Home Address
Miller, Robert Alan	1920	VI	1314 Main St., Campello, Mass.
Miller, Samuel Howard	1921	I U.	208 Cooper St., Westmond, N. J.
Miller, Wesley Barrington	1919	II U.	184 S. Long Beach Ave., Freeport, N. Y.
Mills, Bruce Mortrom	1920	VI	48 Crescent St., Rutland, Vt.
Mills, Oliver Adams	1920	III U.	33 Elm Hill Park, Roxbury, Mass.
Miner, Henry Albert	1920	VI	47 Atkinson St., Bellows Falls, Vt.
Mirabelli, Eugene	1919	I	20 Pleasant St., Dorchester, Mass.
Mitchell, Frank	1921	X	53 Park Ave., Winthrop, Mass.
Mitchell, Robert Williamson	1919	II U.	15 Prospect St., Taunton, Mass.
Mito, Yoshihiko	1919	XIII Sp.	Tokyo, Japan
Moberg, Harold Carl	1919	II U.	126 Leyden St., Campello, Mass.
Moffatt, Edward Hopkins	1918	VI U.	Woodstock, Ont.
Moir, James Govan, Jr.	1920	VI	15A Jason St., Arlington, Mass.
Moller, B. Victor	1921	I	Concepcion, Chili
Molloy, Edward Patrick, A.B.	1920	IV U.	4635 Grand Blvd., Chicago, Ill.
Monasterio, Henry Rivero	1920	XV U.	Cienfuegos, Cuba
Monroe, Wendell Potter, B.S.	Grad.	VI	Muskogee, Okla.
Montrose, Grace Catherine	1920	VII U.	192 W. Chestnut St., Brockton, Mass.
Moore, Harold Daniel	1921	II U.	807 State St., Alma, Mich.
Moran, Bernard Henry	1921		6 Grant St., Natick, Mass.
Moreira, Navarro Salvador	1921	II U.	Tegucigalpa, Honduras
Morgan, Frederick Norman	1921	VI	64 School St., Everett, Mass.
Morgan, Paul Artis	1921	X	553 Haverhill St., Lawrence, Mass.
Mori, Hyogo	1918	VI Sp.	Imperial Kyushu University, Japan
Morrison, Robert Fletcher	1919	II U.	55 Fanshaw Ave., Yonkers, N. Y.
Morrison, William Daniel, ΣΧ	1921	I U.	Jackson, Mass.
Morse, Arthur Webster, ΔΤ	1921	X	Boxford, Mass.
Morse, Clifton Benjamin	1921		492 Preble St., South Portland, Me.
Moss, Lewis Wooden, ΒΘΠ	1921	I	421 N. Franklin St., Greensburg, Ind.
Mosscrop, Roger Gambee, ΦΒΕ	1920	X	36 East Blvd., Rochester, N. Y.
Moy-Ding, William	1920	II	63 Beach St., Boston, Mass.
Mui, King-Chau	1921	X	Canton, China
Müller, Adolf Lancken, ΒΘΠ	1919	IV U.	263 E. 19th St., Brooklyn, N. Y.
Mullowney, John Mansfield, Jr.	1918	VI	298 Boylston St., Brookline, Mass.
Mumford, Albert Russell	1918	XIV U.	57 Beacon St., Winthrop, Mass.
Murdough, Edwin Bennett	1920	I U.	25 Windermere Rd., Dorchester, Mass.
Murphy, Henry Russell, ΘΔΧ	1920	VII U.	246 Broadway, Lawrence, Mass.
Murphy, John Joseph	1921	X	54 Wellington Hill St., Mattapan, Mass.
Murphy, Joseph Henry	1921	U.	21 Main St., Milford, Mass.
Murphy, Thomas Francis	1921	VI	7 Main St., North Andover, Mass.
Murray, Albert Francis, B.A., ΘΞ	1918	VI	Albany, Ala.
Murray, George Sutherland	Grad.	XIII	12 Spofford Rd., Milton, Mass.
Murray, Harold James	1919	I U.	37 May Ave., Brockton, Mass.
Musnitsky, Joshua	1920	XI	34 Boutelle St., Fitchburg, Mass.
Muther, Herbert Carl	1919	XV U.	27 Waverley Ave., Newton, Mass.
Myers, Harry M.	1921	X	134 Fuller St., Brookline, Mass.
Nabeshima, Uhachi	Grad.	VI	Tokyo, Japan
Naigles, Myer Harry	1920	VI	57 Greenwood St., Dorchester, Mass.
Nakaye, Seizo	1918	III Sp.	Kyoto, Japan
Nash, John Crandon, ΔΤ	1920	II	Cherryfield, Me.
Nebolsine, Eugene	1920	I U.	189 Claremont Ave. New York, N. Y.
Nebolsine, Rosstislaff, A.	1920	I U.	189 Claremont Ave., New York, N. Y.
Neitzke, Oscar Frederic	1921	X	1189 27th St., Milwaukee, Wis.
Nelles, Philip Augustus, Jr.	1920	II	69 Hancock St., Lexington, Mass.
Nelson, Christopher Bertelsen	1921	XIII	355 Conipaw Ave., Jersey City, N. J.
Nelson, Esther Marie Cornelia	1921	IV	1550 Cambridge St., Cambridge, Mass.

Name and Society	Class	Course	Home Address
Nelson, John Brockway, B.S.	1918	S.H.O. Sp.	53 Federal St., Newburyport, Mass.
Newcomb, Raymond, ΘX	1919	XV	26 Bradlee St., Dorchester, Mass.
Newell, Joseph Shipley	1919	I	16 Colonial Ave., Springfield, Mass.
Newhall, Kenneth Cyrus	1920	I	124 Ocean St., Lynn, Mass.
Newton, Clinton Arthur, ΔTΔ	1920	X	64 Imlay St., Hartford, Conn.
Nicholas, John Williamson	1920	II	Eastport, Me.
Nichols, Hall, A.B.	1918	I	294 Marlborough St., Boston, Mass.
Nichols, Sherman Elliott	1920	XV	180 Elm St., North Cambridge, Mass.
Nightingale, Winthrop Eliot, A.B.	1918	I	13 James St., Boston, Mass.
Nikitin, Alexander	1918	Sp.	Y. M. C. A., Brockton, Mass.
Nixon, Stuart, ΔXA	1921	II	34 Chandler Ave., Detroit, Mich.
Nock, Herbert Kenneth	1921	X	261 High St., Newburyport, Mass.
Noelke, Harry Montgomery, ΛΦ	1920	II	Mertzon, Texas
Nolen, John, Jr., ΔT	1920	I	10 Garden Terrace, Cambridge, Mass.
Norberg, Ernest Mitchell	1921	I	115 Grant Ave., Medford, Mass.
Norling, Wallace, Clifford	1921	U.	19 Auburn St., Campello, Mass.
Northrop, Aubrey Jennings, ΔKE	1921	II U.	457 Westcott St., Syracuse, N. Y.
Norton, Arthur Warren, ΦBE	1921	XV	Meriden, Conn.
Norton, Clyde Arthur, ΘΞ	1920	XIV	3910 8th St., N. W., Washington, D. C.
Norton, Frederick Harwood	1918	VIII	55 Chestnut St., Boston, Mass.
Norton, John Torrey	1918	VIII	55 Chestnut St., Boston, Mass.
Novack, Jacob	1920	X	4 Maybrook St., Dorchester, Mass.
Noyes, Edward Whittier	1921	VI	13 Barton St., Newburyport, Mass.
Noyes, Mason Shaw	1919	XIII	94 Dean St., Taunton, Mass.
Nute, Alden Davis	1918	X	914 Highland Ave., Fall River, Mass.
Nutter, Karl Locke	1919	II	1174 Boylston St., Newton Upper Falls, Mass.
Nutting, Clarence Leighton	1919	V	54 Lasselle St., West Roxbury, Mass.
O'Brien, James William, Jr.	1919	II U.	10 Howland St., Cambridge, Mass.
O'Brien, Robert Lucius, A.B.	1918	VII Sp.	56 Bennett St., Brighton, Mass.
O'Daly, Bernard	1918	X	11 Stockton St., Dorchester, Mass.
O'Donnell, Aloysius Francis	1919	X	3 Kimball Court, Natick, Mass.
O'Donnell, Charles Henry James	1920	II	60 Varnum St., Lowell, Mass.
O'Donnell, Harold Francis	1918	I U.	3 Granite St., Taunton, Mass.
Officer, Rollin Francis, ΔT	1921	X	32 Haxton Place, Salt Lake City, U.
O'Hearn, Edmund Francis	1921	XV	191 Davis Ave., Brookline, Mass.
Olcott, Egbert Whiting	1921	VI	Elm St., Wyoming, N. J.
Olson, Frank	1919	VI	35 Cleveland St., Arlington, Mass.
Olson, Frederick Follett	1921	II	6 Stafford St., Boston, Mass.
Omelich, Felix Louis	1919	V U.	Budapest, Hungary
O'Neil, Frank Jeremiah	1921	II	106 Anderson St., Lowell, Mass.
Onishi, Kenichi	1921	II U.	Saijo, Japan
Ormon, James Brodie	1920	II U.	995 Chestnut St., Newton Upper Falls, Mass.
Osgood, Frank George, ΦΣK	1919	XV	18 Harvard St., Laconia, N. H.
Osgood, William Ruprecht, A.B.	1919	II	74 Avon Hill St., Cambridge, Mass.
Otis, John P.	1918	VI	144 Appleton St., Boston, Mass.
O'Toole, Austin Patrick	1919	I U.	868 Main St., Brockton, Mass.
Owen, Frederick Ernest	1919	I U.	28 Holt St., Waverley, Mass.
Owens, Grafton Ray	1920	X	Putnam Court, Manchester, Mass.
Oxley, George Woods, C.E.	(Intensive)	XIII	425 45th St., Brooklyn, N. Y.
Padilla José Augusto	1920	I	Tegucigalpa, Honduras, C. A.
Page, Sherwood	1919	II	20 Pearl St., Melrose Hlds., Mass.
Pai, Ming-Hsing	1920	VI	Huchow, China
Painter, Chester Raymond	1921	X	Oyster Bay, Long Island, N. Y.
Palmer, Gretchen Abigail	1918	V U.	131 Magazine St., Cambridge, Mass.
Palmer, Herbert M., C.E.	(Intensive)	XIII	312 W. 102nd St., Brooklyn, N. Y.

Name and Society	Class	Course	Home Address
Palmer, Russell Smith	1919	VI	93 Central St., Somerville, Mass.
Pan, Chen-Chi	1919	X	Soochow, China
Pantzer, Oscar Hugo, ΣX	1921	II	Woodruff Pl., Indianapolis, Ind.
Park, Charles Rudisel, A.B.	Grad.	V	85 Coe St., Tiffin, O.
Parker, Charles Fitch, ΦΓΔ	1921	XIII	East Pepperell, Mass.
Parker, Frederick Andrew	1919	VI	91 Trowbridge St., Cambridge, Mass.
Parker, John Acton	1918	VI	246 Broadway, Somerville, Mass.
Parker, Meredith Francis	1920	X U.	32 Myrtle Ave., Long Branch, N. J.
Parra, Francisco	1921	XIII	Madrid, Spain
Parsons, Alfred Dyer	1921	I	204 E. Foster St., Melrose, Mass.
Parsons, Charles Jewett, BΘΠ	1919	II U.	274 Hancock St., Brooklyn, N. Y.
Parsons, James Stewart, ΔΦ	1920	XV	4 High St., Gloversville, N. Y.
Parsons, John Langdon, KΣ	1918	V	Rye, N. H.
Pasos-Diaz, Jose	1918	I	873 Huntington Ave., Boston, Mass.
Passell, Sol. Meriam	1920	XIII	942 Herrick Rd., Cleveland, O.
Pastorino, Francesco	1919	II U.	93 Revere St., Boston, Mass.
Paterson, Ellsworth George D.	1919	VI–A.	976 Main St., Melrose Hlds., Mass.
Patten, Raymond Eugene	1921	II U.	11 Holmes St., Malden, Mass.
Patterson, Robert, ΣAE	1920	II	205 Centre St., So. Manchester, Conn.
Patton, Norman Frisbie, ΦΣK	1921	VI	255 W. 92nd St., New York, N. Y.
Payson, Philip Perkins	1918	II U.	58 Whipple Ave., Laconia, N. H.
Peabody, Elliott Garland	1921		Main St., Rowley, Mass.
Peach, Harry Lawrence	1919	V	47 Walnut St., Malden, Mass.
Pearlstein, Max Bernard	1921	I	23 Revere St., Boston, Mass.
Pearson, Ernest Axel	1921	V	6A Wilson Terrace, East Lynn, Mass.
Pearson, Frank Cogswell	1918	II	22 Douglass St., Keene, N. H.
Pearson, Joseph Keighley	1918	II U.	236 Farnham St., Lawrence, Mass.
Peart, Frederick Lawther, BΘΠ	1919	III U.	2221 S. Columbia St., Denver, Colo.
Peirce, John Trevor, BΘΠ	1920	XV U.	230 W. Tulpehocken St., Philadelphia, Pa.
Peirce, Russell Moulton	1920	II U.	West Newbury, Mass.
Pelkus, Leo Cecil	1921	X	43 Kerwin St., Dorchester, Mass.
Peltier, Paul Desnoyers, ΣX	1919	VII U.	120 E. 31st St., New York, N. Y.
Peno-Polo, Jorge, A.B.	1918	I	Bogota, Colombia, S. A.
Pender, Robert Theodore	1920	II U.	162 Wilson Rd., Nahant, Mass.
Perkins, Elliott Ronald	1920	VI	33 Addison St., Arlington, Mass.
Perkins, Ernest Fred	1919	X	153 E. Emerson St., Melrose, Mass.
Perkins, John Russell, Jr., ΦΣK	1920	III	20 Terrace Place, Danbury, Conn.
Perkins, William Floyd	1921	II U.	13 Parsons St., Newburyport, Mass.
Perry, Raymond Sweetlove, ΔΦ	1920	X U.	6½ Jewett Place, Utica, N. Y.
Peter, William Wesley, Ph.B., Ph.M., M.D.	1918	Sp.	Shanghai, China.
Peterson, Alfred William	1920	XIII	523 Straight St., Sewickley, Pa.
Peterson, Martin Samuel	1920	III	179 Hickory St., Norwich, Conn.
Phelps, Carl Wright	1919	X U.	92 Marlborough St., Springfield, Mass.
Phelps, Donald Stuart	1921		Farmington, Conn.
Philbrick, Frederick Brueton	1918	VI	189 Randolph St., South Weymouth, Mass.
Philbrick, John Alden, Jr., ΔTΔ	1920	X U.	375 Park Ave., New York, N. Y.
Phillips, Paul Maurice	1921	X	15 Maybrook St., Dorchester, Mass.
Phinney, Hugh Moore	1921	X	251 Broadway, Cambridge, Mass.
Pickett, Harold Chesley	1921		Georgetown, Mass.
Pickop, Edwin Morgan	1919	I	Unionville, Conn.
Pierce, Edward Franklin, Jr., ΘΞ	1919	II	46 Clifton Park, Melrose Hlds., Mass.
Pierce, Henry Carleton	1920	XV	136 Eliot Ave., West Newton, Mass.
Pierce, John Franklin	1921	I U.	Newburyport, Mass.
Pierce, Marvin, A.B., BΘΠ	1918	I	R. F. D. 10, Dayton, O.
Pierson, Margaret	1919	V Sp.	294 Washington St., Wellesley Hills, Mass.

Name and Society	Class	Course	Home Address
Pierson, Theodore Adolphus, Jr.	1918	II U.	Hopewell, N. J.
Pike, Moses Bernard, ΔΥ	1920	VI	Lubec, Me.
Pike, William Kenneth	1919	VI–A.	120 So. Common St., Lynn, Mass.
Piston, Donald Stover	1921	XIV U.	503 Blue Hill Ave., Grove Hall, Mass.
Piza, Geigel José	1920	VI	San Juan, Porto Rico
Plum, Svend Munk, S.B.	1919	IV Sp.	Copenhagen, Denmark
Plummer, William Bradford	1921	X	250 Chestnut St., Chelsea, Mass.
Polley, Edgarton Goldthwaite	1918	II	37 Banks St., Waltham, Mass.
Pomeroy, Frederick Hutchinson	1921	U.	106 Prospect St., Methuen, Mass.
Poole, Harmon Atkinson	1921	X	98 Winter St., Woonsocket, R. I.
Poole, Richard Clement	1921	II	100 Ashmont St., Dorchester, Mass.
Pope, Arthur Wilson, Jr., ΔΨ	1918	II	Geneva, Ill.
Pope, Kennedy, ΔΨ	1920	I	1211 N. State St., Chicago, Ill.
Poppic, Clara	1919	V U.	87 Georgia St., Roxbury, Mass.
Porcher, Francis Davis, B.S.	1919	I	4 Newton St., Cambridge, Mass.
Porter, Gannett Hartle	1918	X	15 Pleasant Place, Cambridge, Mass.
Poteat, John Robinson, B.A., ΦΒΕ	1918	VI	Greenville, S. C.
Povah, Albert Eugene	1921	II	575 E. Eighth St., South Boston, Mass.
Powell, Albert Perry	1920	XIV U.	530 Cambridge St., Allston, Mass.
Powell, Philip White	1921	I	Milton, Vermont
Powers, Leslie Warren	1921	II	30 Chester St., Danvers, Mass.
Powers, Ray, ΛΧΑ	1919	VII U.	20 Bacon St., Orange, Mass.
Praetz, Edward Francis	1921	II	131 Haverhill St., Lawrence, Mass.
Pratt, Fearing, ΦΒΕ	1921	VI	120 Main St., Hingham Center, Mass.
Pratt, Kenneth Harnden	1921		60 Eastern Ave., Lynn, Mass.
Presbey, Raymond Lincoln	1921	III	237 Winthrop St., Taunton, Mass.
Prescott, Amos Neal, ΦΣΚ	1919	XV	181 Lafayette Ave., Passaic, N. J.
Prescott, Henry Batchelder	1920	II U.	Franklin, N. H.
Preston, William Henry	1920	II U.	25 Aurora St., Ponce, Porto Rico
Pridmore, Marshall Efmory, ΔΤΔ	1921	XV	2414 S. Central Park Ave., Chicago, Ill.
Priest, Holden Chouteau	1919	VI	101 Abbottsford Rd., Brookline, Mass.
Pritchard, Claudius Hornby	1918	VI Sp.	Blacksburg, Va.
Proctor, Carleton Treat	1920	XV	124 Linden Ave., Malden, Mass.
Purves, John Coleman, ΔΨ	1918	I	8525 Seminole Ave., Chestnut Hill, Philadelphia, Pa.
Putnam, Harold Marshall	1919	I	36 Marlborough St., Lowell, Mass.
Putnam, John Pickering, A.B.	1919	II	535 Beacon St., Boston, Mass.
Quanstrom, Carl Hugo	1920	U.	279 K St., South Boston, Mass.
Quick, Lansing Mott, ΦΚΣ	1919	XV U.	207 Woodworth Ave., Yonkers, N. Y.
Quinn, Jay Henry	1921	II	32 Orchard St., Northampton, Mass.
Quirk, Thomas Addis	1920	II U.	30 Speedwell St., Dorchester, Mass.
Quiros, Teodorico	1920	IV U.	San Jose, Costa Rico
Ractliffe, Alice Ruth		VII Sp.	1 Mt. Vernon Sq., Boston, Mass.
Radasch, Arthur Hitchcock	1920	X	Longmeadow, Mass.
Ramsay, Harry MacKenzie	1921	XV	33 Mellen St., Cambridge, Mass.
Ramsay, Webster Kimball	1921	II U.	916 Chestnut St., Manchester, N. H.
Randall, Joseph Hungerford	1921	I U.	14 Copeland St., Roxbury, Mass.
Randolph, Donald Wolf, ΧΦ	1921	II	9th & Washington Sts., Wilmington, Del.
Raphael, Rosimond Milton	1921	X U.	129 Cliff St., Norwich, Conn.
Rasmussen, Frederick Jessen	1919	XIV	125 Greenleaf St., Quincy, Mass.
Rathbone, Clifford Kyler, ΚΣ	1920	IV U.	Denton, Texas
Raymond, Fred Luman	1921	X	59 High St., Newburyport, Mass.

Name and Society	Class	Course	Home Address
Raymond, Norton Goldsmith	1921	II	101 Balch St., Beverly, Mass.
Read, Mahlon Milton	1918	VI	69 Mt. Vernon St., Cambridge, Mass.
Ready, William Charles	1921	I	10 Bertha St., Lowell, Mass.
Reed, Charles Henry	1920	XV	1336 Edanola Ave., Lakewood, O.
Reed, Howard Finley, B.A.	1918	II	Roxbury, Ohio
Reid, Armour Lionel, ΔΚΕ	1919	XV U.	50 Douglas Rd., Glen Ridge, N. J.
Reid, Kenneth, ΑΧΑ	1918	IV	15 Chase St., Dorchester, Mass.
Reinhard, Herbert William	1921	XV	207 Harvard St., Dorchester, Mass.
Reis, James Ward, Jr., ΣΧ	1919	III	318 East St., New Castle, Pa.
Remington, Preston Ashley	1921	IV	84 Willis St., New Bedford, Mass.
Reyburn, Francis Clarke, ΔΨ	1920	XV U.	4229 Lindell Ave., St. Louis, Mo.
Reycroft, Arthur Greely	1918	III U.	18 Buena Vista Park, Cambridge, Mass.
Reynolds, Albert Barnes	1919	VI	27 S. Indiana Ave., Atlantic City, N. J.
Reynolds, Frank Percival	1919	X	46 Boston St., Malden, Mass.
Rhodes, Philip Leonard, ΦΔΘ	1919	XIII U.	328 Wilson St., Newark, O.
Rhodes, Robert Dunn	1921	VI	128 Pleasant St., Brookline, Mass.
Rich, Edwin Newell	1920	VI U.	6 Channing St., Newton, Mass.
Richards, Alan Gerard	1919	X	23 Fairmont St., Arlington, Mass.
Richards, Arklay Seymour, ΘΞ	1919	VI–A.	22 Bigelow St., Cambridge, Mass.
Richards, Clarence Earl, Jr., B.Ph.	1918	IV	1006 Hartman Bldg., Columbus, O.
Richards, Charles Wentworth	1921	V	23 Dale St., Newtonville, Mass.
Richards, George Harrison, A.B.	1918	V	580 Main St., Winsted, Conn.
Richards, Henry Edward	1918	VI	Lynnfield Center, Mass.
Richardson, Edward Adams	1919	II	18 Trowbridge St., Cambridge, Mass.
Richardson, Ernest Henry	1920	II U.	41 Royal St., Medford, Mass.
Richardson, John Dana	1921	II U.	Billerica, Mass.
Rider, William Jarvis	1920	II U.	11 New St., Danbury, Conn.
Ridgway, Raymond Ronald	1920	XIV U.	50 Pleasant St., Freeport, Ill.
Riegel, John Lawrence, ΦΓΔ	1919	XV	340 W. 86th St., New York, N. Y.
Rigsby, Radford Walter, B.S.	1919	XV U.	Pomeroy, Wash.
Riley, William Andrew	1920	IV U.	196 Blue Hills Parkway, Milton, Mass.
Rimbach, Richard	1918	I	244 E. 30th St., New York, N. Y.
Rimmer, Chester Albert	1921	XIII U.	62 Belmont St., Malden, Mass.
Robbins, Donald Atherton	1921		55 Addington Rd., Brookline, Mass.
Roberts, Arthur, ΦΣΚ	1920	XIII U.	7153 Boyer St., Philadelphia, Pa.
Roberts, Elliott Burgess	1921	I	18 South Loring St., Lowell, Mass.
Roberts, Walter Carlyle	1919	XV	184 Ward St., Newton Center, Mass.
Robertson, Stanley Stuart	1918	X	15 Lincoln St., Framingham, Mass.
Robertson, Walter Harrison	1918	I	56 Wellesley Park, Dorchester, Mass.
Robillard, Robert Edouard	1920	I	486 Huron Ave., Cambridge, Mass.
Robinson, Wirt Russell	1919	I U.	West Point, N. Y.
Rockafeller, John Daniel, ΣΧ	1920	III U.	Deal Beach, N. J.
Rodriguez, Antonio Helier	1921		Caibarien, Cuba
Rogers, Arthur Folger	1921		11 Granite St., Rockport, Mass.
Rogers, Bruce Falconer, ΣΑΕ	1921	X	61 Warren St., Norwich, Conn.
Rogovin, Isadore Harry	1921	X	65 Reynolds Ave., Chelsea, Mass.
Rohn, Minna Mary, M.D.	1918	S.H.O. Sp.	3803 Clinton Ave., Cleveland, O.
Rojas, George	1921		Santiago, Chili
Role, Maurice Harold	1919	II U.	39 Chambers St., Boston, Mass.
Rolle, Edward	1920	XV U.	46 Mass. Ave., Cambridge, Mass.
Rollins, Wingate, A.B., ΔΚΕ	1918	XV	Brush Hill Lane, Hyde Park, Mass.
Roman, Kenneth	1920	II	77 Gibbs St., Brookline, Mass.
Rommer, Henry	1919	II	37 Joy St., Boston, Mass.
Root, Marshall Jewett, Jr., ΔΨ	1921	II U.	Hotel Bancroft, Worcester, Mass.
Root, Stephen Eastman, ΔΥ	1921	II U.	63 Queen St., Sherbrooke, Quebec
Rose, Melvin Charles	1921	XIII	26 Webster St., Brookline, Mass.
Rose, William Henry Frederick, Jr., ΣΧ	1921	X	47 Chapman Place, Irvington, N. J.
Rosenfield, Harry	1921	X	132 Ziegler St., Roxbury, Mass.
Rosenthal, Anne Ruth	1921	IV	56 Summer St., Natick, Mass.

Name and Society	Class	Course	Home Address
Ross, Howard Lincoln	1921	U.	116 W. 72nd St., New York, N. Y.
Rossi, Nicholas Joseph	1921	V U.	529 Columbus Ave., Boston, Mass.
Rowe, George Ernest	1920	II	110 Park St., Fall River, Mass.
Rowe, James Everett, ΑΤΩ	1918	II	59 Mulberry St., Pawtucket, R. I.
Rowe, John Richard, ΛΧΑ	1919	IV Sp.	Roanoke Hotel, Buffalo, N. Y.
Rowe, Raphael Robinson, A.B., ΛΧΑ	1918	I	404 Fountain St., Grand Rapids, Mich.
Rowe, Robert Rich, ΑΤΩ	1920	IV U.	156 W. Chippewa St., Buffalo, N. Y.
Rowe, William Hugh, Jr.	1920	IV U.	770 Mass. Ave., Cambridge, Mass.
Rowell, Eugene Perry, Jr., ΘΔΧ	1920	XIII	20 Allerton St., Plymouth, Mass.
Rowell, Fred Myron, ΘΔΧ	1921	XIII U.	20 Allerton St., Plymouth, Mass.
Rowen, Thomas Carlton, Jr., ΦΚΣ	1921	XV	72 Banks Rd., Swampscott, Mass.
Roy, Joseph E., B.S.	(Intensive)	XIII	907 Armory St., Springfield, Mass.
Rubin, Bernard William	1921		11 Floyd St., Dorchester, Mass.
Rubin, David Nathan, ΣΑΜ	1918	I	12 Carlton St., Holyoke, Mass.
Rubin, Samuel	1920	VIII	85 Allston St., Cambridge, Mass.
Ruby, Charles Ernest, B.S.	Grad.	V	403 E. Chestnut St., Louisville, Ky.
Ruiz, Victor	1921	II	Santander, Spain
Rule, John Thomas, ΘΧ	1921	X U.	3731 Westminster Place, St. Louis, Mo.
Rund, Arnold Clarence	1921		135 Thornton St., Roxbury, Mass.
Rushton, Eugene Ray	1921	XIV U.	739 S. Court St., Montgomery, Ala.
Russell Arthur Litchfield	1918	VI	57 Circuit St., Roxbury, Mass.
Russell, Daniel, Jr.	1921	II	23 Bodwell St., Dorchester, Mass.
Russell, Edgar Stuart	1921	II	1210 Warren Ave., Campello, Mass.
Russell, Warren King	1920	II	13 Allston St., Dorchester, Mass.
Ryan, Raymond Patrick	1920	I U.	741 St. Owen Place, Bronx, New York, N. Y.
Ryan, William Patrick, ΒΘΠ	1919	X	West Medway, Mass.
Ryer, Edwin Delamater, ΔΚΕ	1920	VI	29 Gorham Ave., Brookline, Mass.
Sackett, George Arthur	1918	X	45 Barrett St., Revere, Mass.
St. John, Laurence Darius	1919	II U.	New Canaan, Conn.
St. Laurent, Raymond Alfred	1921	X	754 Morton St., Mattapan, Mass.
Salah, John Suleiman, A.B.	1918	II	Palestine, Turkey
Salisbury, DeRoss	1918	XV	North Glendale, Cal.
Sammet, Francis Parkman	1921		20 Chestnut St., Malden, Mass.
Sanchez, Federico Guillermo	1918	II	Santa Lucia, Cuba
Sandberg, James Eric Theodore	1921	I U.	5 Warwick Rd., Belmont, Mass.
Sanders, Marion Sutton, B.S.	1919	VI U.	1222 Roanoke St., Roanoke, Va.
Sanderson, Nathan Herbert, Jr., ΣΑΕ	1921	I	Lincoln St., Waltham, Mass.
Sandiford, Raymond Benedict	1920	VI	38 Linnaean St., Cambridge, Mass.
Sanford, David Curtis, Jr., ΧΦ	1919	IV U.	39 Drouve St., Bridgeport, Conn.
Sanger, Alan Bridgman	1918	III	8 Merlin St., Dorchester, Mass.
Sansberry, James Campbell, S.B.	1918	IV Sp.	216 E. 11th St., Anderson, Ind.
Sarafian, Haigh Henry	1918	V	41 Newbury St., Lawrence, Mass.
Sarti, Eduardo Emilio	1919	IV U.	San Felipe, Guatemala, C. A.
Sattels, Joseph Tillou	1918	XV	221 E. 6th St., Plainfield, N. J.
Saunders, Albert, ΘΞ	1918	II	10 Henry St., Malden, Mass.
Saunders, Edward Earl, B.S.	1919	VI–A.	Alfred, N. Y.
Savage, Russell Heath, ΑΤΩ	1919	X U.	27 Long Ave., Allston, Mass.
Sawamura, Sukesaku	1921	VI	Kotchiken, Japan
Sawyer, Albert Francis	1918	II	19 Commonwealth Ave., Haverhill, Mass.
Saxe, Myer	1920	X U.	79 Revere St., Boston, Mass.
Scannell, Edward John, M.D.	1918	S.H.O. Sp.	123 Orange St., Chelsea, Mass.
Scarlett, John Arthur	1921	X	37 Lake Ave., Lynn, Mass.
Scheeline, Paul Daniel	1919	VI U.	1431 Leavenworth St., San Francisco, Cal.
Schefer, Albert Philip	1919	I	40 E. Britannia St., Taunton, Mass.
Schiero, Elias Samuel	1921	U.	16 Union St., Waterville, Me.
Schimmelpfennig, William Harrington, ΚΣ	1920	IV U.	617 S. 5th St., Waco, Texas
Schmidt, Herman Le Mont, ΔΚΕ	1921	XV	2818 Winslow Ave., Cincinnati, O.
Schnitzler, George	1921	XIII U.	60 Hawthorn St., Chelsea, Mass.

Name and Society	Class	Course	Home Address
Schock, Edson Irwin, ΚΣ	1920	XIII U.	1133 14th Ave., Seattle, Wash.
Schwartz, Ernest Lincoln	1919	VI	78 W. Bow St., Franklin, N. H.
Schwartz, Leonard Arthur, B.A.	1921	U.	4 Schuyler St., Roxbury, Mass.
Schwarz, Edward Robinson	1921	II	165 Ferry St., Lawrence, Mass.
Scofield, Edward Ellis, ΔΤΔ	1919	VI U.	610 Main St., Oconto, Wis.
Scott, Emmett Jay, Jr.	1921	I	Tuskegee, Ala.
Scott, James Hamilton, ΔΨ	1920	II U.	2236 Monument Ave., Richmond, Va.
Scott, John Winfield, Jr.	1921	I	110 Carnegie Ave., East Orange, N. J.
Scott, Palmer, ΔΨ	1921	XIII	Dedham, Mass.
Scott, Warren Joseph	1918	XI	1423 Cambridge St., Cambridge, Mass.
Scranton, Charles Wallace	1919	IV U.	Washington, N. J.
Scudder, Norman Clark	1921	VI U.	25 Fountain St., West Newton, Mass.
Seampos, Steve Joseph	1921	VI	Patras, Greece
Searles, Howard Hall	1919	IV	27 Norwood St., Marlboro, Mass.
Sears, Francis Weston	1920	XI	220 Sandwich St., Plymouth, Mass.
Sears, Richard Warren	1921		68 Beacon St., Boston, Mass.
Seavey, Harold Victor, 2nd	1920	X U.	414 Highland Ave., Wollaston, Mass.
Seifert, Edgar Frank Karl	1919	V U.	34 Kendall St., Lawrence, Mass.
Seltzer, Max	1918	X	495 Mass. Ave., Lexington, Mass.
Selya, Hyman Philip	1919	X	31 Perry St., Brookline, Mass.
Senzer, Sidney	1921	II	124 19th Ave., Irvington, N. J.
Serra, Julius Herschel, S.B.	(Intensive)	XIII	28 Warwick Rd., Melrose Hlds., Mass.
Shapespeare, Monroe	1920	XV U.	407 W. Lovell St., Kalamazoo, Mich.
Shapero, Hyman Nathan	1919	X U.	62 Myrtle St., Boston, Mass.
Shaughnessey, Alfred James	1921	VI	104 Prospect St., Marlboro, Mass.
Shaw, John Ellsworth	1921	III	Geneva, Ill.
Shea, Edward Dana	1921	VI	203 Pearl St., Cambridge, Mass.
Shea, Henry Francis	1921	XV	356 Linden St., Fall River, Mass.
Shea, Timothy Edward	1919	VI	49 Worcester St., Newton Upper Falls, Mass.
Shedlovsky, Theodore	1919	X	127 St. Botolph St., Boston, Mass.
Sheldon, Morris Fahnestock	1921	VI U.	617 Park St., Watertown, S. D.
Shelton, Philo Sherwood	1918	VI U.	1464 Fairfield Ave., Bridgeport, Conn.
Shepard, John Wyman	1921	X	North Easton, Mass.
Shepard, William Durell	1919	VII Sp.	28 Williams St., Cambridge, Mass.
Sherbrook, Walter Albert, ΑΦ	1920	II U.	36 Columbia St., Brookline, Mass.
Sherman, Benjamin Howland, ΦΒΕ	1919	X	310 Broadway, Newport, R. I.
Sherman, Edward Willis, Jr.	1921		61 Cottage St., New Bedford, Mass.
Sherman, John MacDuffie	1921	X	16 Myrtle St., Belmont, Mass.
Sherman, Samuel Alfred	1919	X	13 Brook St., Stamford, Conn.
Shiozawa, Masakazu	1918	III Sp.	Tokyo, Japan
Shlager, Abraham Esau	1920	I	109 Leverett St., Boston, Mass.
Shlager, Max	1920	X	158 Franklin St., Malden, Mass.
Shultz, Edwin Chester, ΑΤΩ	1920	U.	176 Park St., Montclair, N. J.
Sias, Oscar Buzzell, ΑΤΩ	1920	I	Ossipee, N. H.
Sibley, Dean Sheridan, ΘΞ	1918	II	N. Newport, N. H.
Sidman, Edward	1918	II	9 Bradshaw St., Dorchester, Mass.
Siegfrid, Rudolf	1921	XIII U.	58 Center St., Ashtabula, O.
Sih, Tse-sing, B.S.	1918	I	Shanghai, China
Silver, Arthur Lewis	1921		32 Columbia St., Brookline, Mass.
Silverman, Louis Maurice	1920	X U.	81 Concord St., Lawrence, Mass.
Silverstein, Solomon Mark	1921	III	15 Brookview St., Dorchester, Mass.
Sjöström, Robert Ludwig, ΒΘΠ	1920	IV U.	North Andover, Mass.
Skilling, Arthur Watts	1921	I	577 Haverhill St., Lawrence, Mass.
Skinner, C. Frank	1921	U.	207 Gaston Bldg., Dallas, Tex.
Skinner, Richmond Hastings	1921	X	7 Evandale Terrace, Dorchester, Mass.

Name and Society	Class	Course	Home Address
Skinner, Robert Llewellyn	1920	V	30 Glen Rd., Winchester, Mass.
Slater, Grover Cleveland	1919	VI U.	Brackettville, Tex.
Slotnik, Isidor	1919	I	10 Lawrence St., Chelsea, Mass.
Smiddy, Harold Francis	1920	VI	Fayville, Mass.
Smith, Albert Ervin, ΘΔΧ	1921	XV U.	7 York St., Caribou, Me.
Smith, Albert Valentine, ΛΧΑ	1920	II U.	32 Oakland St., Winthrop, Mass.
Smith, Archer Greenlaw, ΑΤΩ	1920	XV	48 Salisbury Rd., Brookline, Mass.
Smith, Arthur	1918	X	236 S. Regent St., Port Chester, N. Y.
Smith, Edgar Reyolds, ΦΚΣ	1919	XIV U.	1105 Franklin St., Wilmington, Del.
Smith, Frederick Gorham Clark, Jr., ΣΑΕ	1920	U.	Greenwich, Conn.
Smith, George Anthony William	1921	XIII	20 Stratford Rd., Edgewood, R. I.
Smith, Harold Luther, B.S., ΔΚΕ	Grad.	II	941 Culver Rd., Rochester, N. Y.
Smith, Herbert Watson	1921	II	495 Weetamoe St., Fall River, Mass.
Smith, Hosea Hart	1920	X	12 Dartmouth St., New Bedford, Mass.
Smith, James Burnham	1921	VI	77 W. Britannia St., Taunton, Mass.
Smith, Leighton Bruerton	1919	X	158 Central St., Auburndale, Mass.
Smith, Merritt Parker	1919	I	North Scituate, R. I.
Smith, Morton Arthur	1919	VI	21 Cottage St., Great Barrington, Mass.
Smith, Raymond Slack, ΛΧΑ	1918	I	97 W. Main St., Freehold, N. J.
Smith, Richard Herbert, B.S.	1918	XV	Dillsboro, Ind.
Smith, Richard Wellington	1921	X	129 Woodland Ave., Gardner, Mass.
Smith, Russell Storer	1919	XI	853 Mass. Ave., Arlington, Mass.
Smithwick, Reginald Hammerick, ΦΚΣ	1921	III	483 Beacon St., Boston, Mass.
Smoley, Eugene Ralph, ΦΚΣ	1919	X	711 Monroe Ave., Scranton, Pa.
Smyser, Frederic Hawley	1920	XIV U.	217 Harvard St., Brookline, Mass.
Smyser, Harold Edward	1921	XIII	4040 Lowell Ave., Chicago, Ill.
Snow, Lancy	1920	XIII	412 Washington St., Whitman, Mass.
Snow, Leon Isaac	1919	X	35 Beals St., Brookline, Mass.
Snow, Raymond Anthony, ΘΞ	1921	II	19 Gage St., Needham, Mass.
Snow, William Bradlee, ΧΦ	1919	XV U.	11 Devon Rd., Newton Center, Mass.
Soars, Everett Alexander	1919	VI–A.	17 Payson St., Newburyport, Mass.
Somerby, Philip Bickner, ΒΘΠ	1920	VI U.	125 Grover Ave., Winthrop, Mass.
Sorenson, Lloyd Raymond	1919	VI	19 Boyden St., Dorchester, Mass.
Southwick, Bertram Holden	1919	II	126 Bowler St., East Lynn, Mass.
Sparrow, Edward Grant, ΔΨ	1921	VI U.	41 E. 68th St., New York, N. Y.
Spaulding, George Whittier	1921	VI	13 Grant St., Lexington, Mass.
Spector, Hyman Gershon	1919	X	13 Oswego St., Boston, Mass.
Spencer, Ralph Brackett	1920	I	156 Spring St., Brockton, Mass.
Spiehler, Adolph Frederick, ΘΔΧ	1919	X U.	662 Averill Ave., Rochester, N. Y.
Spitz, Richard Julius	1921	X	50 Thorndike St., Brookline, Mass.
Spitz, Theodore Parker	1921	X	15 Coolidge St., Brookline, Mass.
Spooner, Frederick Carroll	1919	II	Furnace, Mass.
Stacey, James Harold, ΛΧΑ	1920	X	White River Junction, Vt.
Stagg, Dwight Elliott, ΔΤΔ	1921	XV	151 West Ave., Bridgeport, Conn.
Stagg, Joseph Henry, Jr., ΔΤΔ	1918	IX	151 West Ave., Bridgeport, Conn.
Stam, Jesse	1919	VI–A.	601 W. 160th St., New York, N. Y.
Stanwood, Creighton Boyd	1920	X	59 State St., Portland, Me.
Starck, Carl William, ΑΤΩ	1921	II	Centerville, Mass.
Starkweather, John Burr	1921	XIII	17 Gibson Rd., Newtonville, Mass.
Starr, Daniel Lawrence	1918	XI	4 West Ave., So. Norwalk, Conn.
Staubach, Arnold Baldwin	1919	IV	114 Puriton Ave., Highland Park, Mich.
Stebbins, Robert Pierce, ΘΞ	1921	XV	226 W. San Bernadino Ave., Covina, Cal.
Steele, Bruce Munger, ΦΓΔ	1920	VI	Herkimer, N. Y.
Steffian, Edwin Theodore	1921	II	1112 Montana St., El Paso, Tex.
Steininger, George Russell	1921	I	233 N. 5th St., Reading, Pa.
Stetler, Marvin Mayfield, ΔΤΔ	1919	IV U.	3115 Hood St., Dallas, Tex.

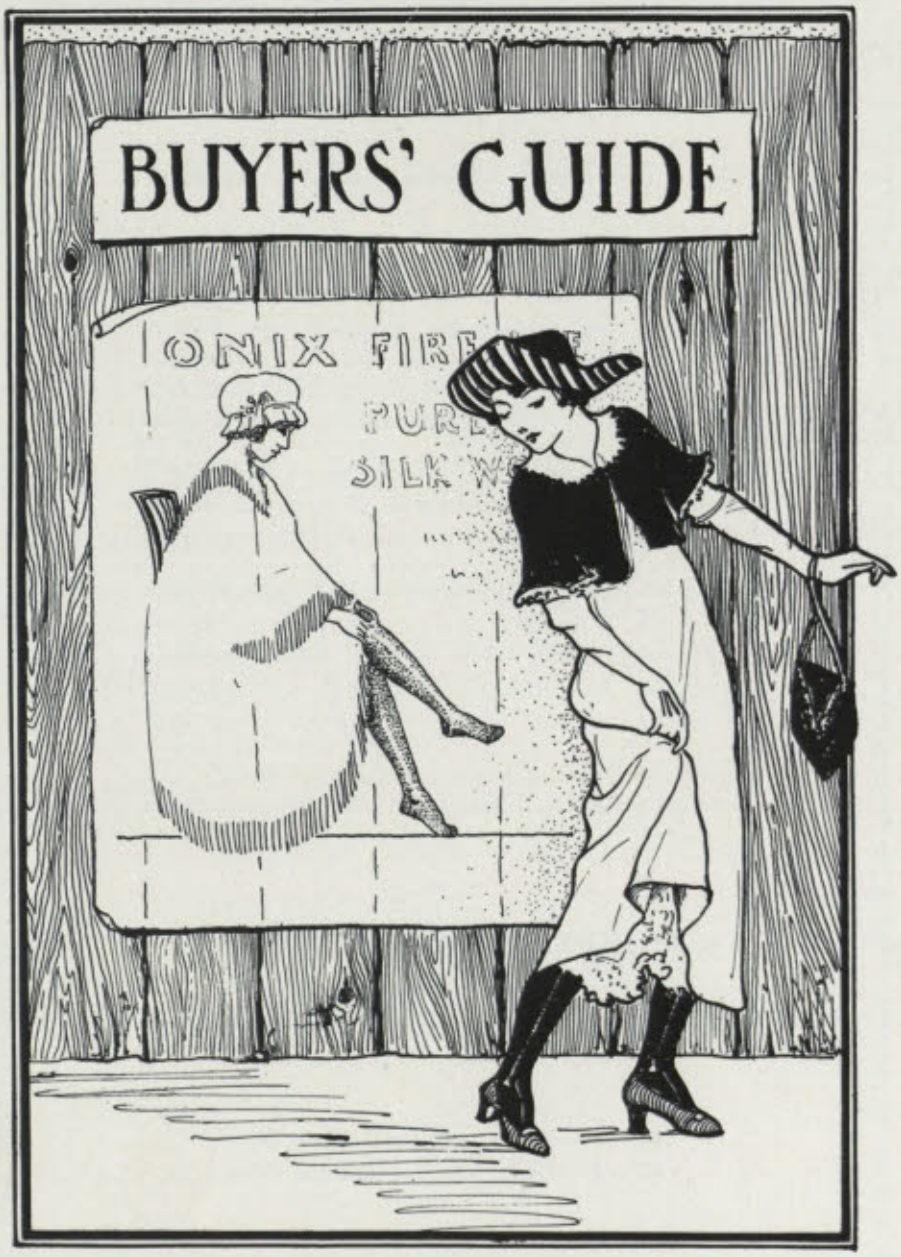
Name and Society	Class	Course	Home Address
Stevens, Amos Henry	1921	VI	11 Wollaston Ave., Arlington Hts., Mass.
Stevens, John, ΨΤ	1919	XV U.	401 College Ave., Appleton, Wis.
Stevenson, Earl Place, B.S.	Grad.	V	3031 N. New Jersey St., Indianapolis, Ind.
Stevenson, Thomas Theodore, ΛΦ	1921	III	Berwick, Me.
Stevenson, Victor	1920	III	Antofagasta, Chili
Stevenson, William Orick, ΛΦ	1920	III	Antofagasta, Chili
Stewart, Chester Cameron	1919	X	6 Sumner Ave., Medford, Mass.
Stiff, Churchill Keith	1921	V	928 Maple St., Fall River, Mass.
Stiller, Harry, ΣΑΜ	1919	I	96 Harrishof St., Roxbury, Mass.
Stillman, Henry Calmon	1921	X U.	16 Fair St., Newburyport, Mass.
Stockbarger, Donald Charles, ΦΔΘ	1919	XIV U.	7½ Centre St., Cambridge, Mass.
Stockman, Charles Currier, 2nd	1918	VII	153 High St., Newburyport, Mass.
Stockwell, Ernest Farnham, ΔΚΕ	1921	XV	9 Kidder Ave., West Somerville, Mass.
Stone, Carol Leon	1921	XIV	21 Commonwealth Ave., Allston, Mass.
Stose, Harold Frederick	1921	X	801 Taylor St., Washington, D. C.
Stowhas, Carlos Alberto	1919	VI	Valparaiso, Chili
Strang, James MacLaren	1919	VII	348 Central St., Auburndale, Mass.
Strang, Peter MacDonald	1918	XV	348 Central St., Auburndale, Mass.
Stratton, Charles Edward, A.B.	1918	Sp.	Groton, Mass.
Sturtevant, Harold Vaughan	1918	II	153 Chatham St., East Lynn, Mass.
Sullivan, Cornelius Dermott	1921	X U.	69 Walter St., Bangor, Me.
Sullivan, Edmund Carey	1920	I	39 Loring St., Lowell, Mass.
Sutherland, Kenneth Reynold, ΛΧΑ	1921	XV	157 Ocean St., Lynn, Mass.
Svenson, Carl Louis	1919	II	303 Wood Ave., Mattapan, Mass.
Swasey, Paul Francis, ΦΔΘ	1919	IV	Waterbury, Vt.
Sweeney, Frank Morgan	1920	VI U.	83 Tremont St., Peabody, Mass.
Swenson, Hilary Sanford	1921		7 Clay St., New Bedford, Mass.
Swett, William Alfred	1921		40 Myrtle St., Malden, Mass.
Swift, Donald Judd	1921	X	10 Dana St., Cambridge, Mass.
Swift, George Whitney	1920	II	55 Oak St., Taunton, Mass.
Sylvester, Wilfred Bancroft	1921	XIV	65 Middlesex Ave., Reading, Mass.
Syner, Clarence Marshall	1920	III	100 Bay St., Taunton, Mass.
Taber, Thomas Reed	1920	XIII	282 Westford St., Lowell, Mass.
Takagi, Yanao	1919	II Sp.	Port Arthur, Japan
Takashima, Naoichiro	1921	VIII U.	Tokyo, Japan
Talcott, Carleton Hart, ΦΓΔ	1920	VI	141 Field St., Torrington, Conn.
Tan, Chen	Grad.	I	Tientsin, China
Tatsuno, Masayuki	Grad.	III	Tokyo, Japan
Tattersfield, Gerald, ΘΧ	1920	X	6807 Lincoln Drive, Philadelphia, Pa.
Tavener, Charles Howell	1919	II U.	1525 Blue Hill Ave., Mattapan, Mass.
Taylor, Charles Herbert	1921	V	Walpole St., Dover, Mass.
Taylor, Gavin Robert	1920	X	Hickory, N. C.
Taylor, Merritt Harrison, ΔΨ	1920	XV	Wayne, Pa.
Tewksbury, Russell Benton	1921	IV	52 Waldemar Ave., Winthrop, Mass.
Thomas, George Washington	1918	I	85 Eleventh St., Lowell, Mass.
Thompson, Phil Richmond	1920	X	111 Wheatland Ave., Dorchester, Mass.
Thomson, George	1921	X	7 Morse St., Dorchester, Mass.
Thomson, Wilfrid Mulock, ΣΑΕ	1921	VI	129 Lawther Ave., Toronto, Can.
Thornton, Charles Earle	1921	VI	Willow Ave., Ward Hill, Mass.
Thresher, Brainerd Alden, ΣΧ	1919	XV	128 W. 1st St., Dayton, O.
Thrige, Thomas Barford	1921		Odense, Denmark
Thulman, Robert Kelley	1921	II	2493 Valentine Ave., Fordham, N. Y.
Thurston, Robert Ray	1920	X U.	New Milford, N. J.
Ticknor, Merton Fred	1921	I	Newfields, N. H.
Tiley, Albert Valdemar	1921	U.	140 Magazine St., Cambridge, Mass.

Name and Society	Class	Course	Home Address
Timanus, Clarence Sydney	1918	I	3118 Karnes Blvd., Kansas City, Mo.
Tipton, John Howard, ΣN	1918	VI	Elizabethton, Tenn.
Tirrell, Robert Wilson, ΘX	1920	II	270 Spring St., Brockton, Mass.
Titus, Augustin Charles, ΣAE	1920	XV U.	128 Mills St., Newport, R. I.
Tobin, Francis Leo	1921	II	67 Rindge Ave., Cambridge, Mass.
Tobin, Robert James	1920	X U.	Mountain Home, Idaho
Tooley, Joseph Hicks, BΘΠ	1919	II U.	El Paso, Texas
Tortorelli, Christopher Lucius	1920	VI U.	520 W. Taylor St., Chicago, Ill.
Townend, Maurice Garthwaite, ΘΞ	1921	XV	111 Ross St., Fitchburg, Mass.
Townshend, Bailey, S.B.	Grad.	VIII	45 W. 35th St., New York, N. Y.
Travers, Frank Alva	1919	X	66 Howard St., Haverhill, Mass.
Travers, Fred Hartt	1920	X U.	66 Howard St., Haverhill, Mass.
Travis, Robert Earle	1920	XIII U.	3 Lexington St., Framingham, Mass.
Travis, Simeon Edmund, Jr., B.S.	1920	VI U.	Hattiesburg, Miss.
Tribou, Ralph Ellsworth	1919	I	956 N. Main St., Montello, Mass.
Trowbridge, Lawrence Wellington	1921		14 Hollis St., Newton, Mass.
Trowbridge, Otis Hibbard, ΔΨ	1921	VI	1396 Park Lane, Pelham Manor, N. Y.
True, Osmond Smalley	1920	X	19 Hawthorne St., Readville, Mass.
Tu, Yu Ching	1918	I	Hupeh, China
Tucker, Carlton Everett	1918	VI	136 School St., Whitman, Mass.
Tucker, Charles William	1921	U.	316 Huntington Ave., Boston, Mass.
Tucker, Everett Russell	1921	VI U.	9 East St., Ipswich, Mass.
Tucker, Henry Davenport, ΦΣK	1921	VI U.	Main St., Lubec, Me.
Tunis, John Theodore, Jr.	1920	XIII Sp.	Lexington, Ky.
Turner, Arthur Arnold	1921	I	4 Decatur Ave., Roxbury, Mass.
Turner, Clair Elsmere, A.B., A.M.	1918	S.H.O. Sp.	Harmony, Me.
Turner, Everett Pendleton	1918	XV Sp.	244 Pleasant St., Arlington, Mass.
Turner, Frank Bruce	1921		94 Avon Hill St., Cambridge, Mass.
Turner, Robert Laird	1920	X U.	187 Lock St., Peterboro, Ont.
Turner, William Hugh	1918	III	260 Fairmount Ave., Hyde Park, Mass.
Tushin, Aaron	1920	X	154 Shawmut St., Chelsea, Mass.
Tuthill, Howard Berridge, AΔΦ	1921	II	Grand Rapids, Mich.
Tuttle, Albert Edward	1918	VI	350 The Esplanade, Cambridge, Mass.
Tuttle, Horace Bancroft	1921	II	5 Linnaean St., Cambridge, Mass.
Tye, Keat Kwong	1921	VI	Penang, China.
Uchida, Seiichi	1919	V Sp.	Osaka, Japan
Underhill, Eliot, ΦΣK	1921	X	San Raphael Hts., Pasadena, Cal.
Underwood, Harold Ray	1918	II U.	Endicott Ave., Marblehead, Mass.
Untersee, Maximilian, ΔKE	1919	IV U.	161 Davis Ave., Brookline, Mass.
Vadner, Samuel Lawrence	1921	X	465 Washington St., Brookline, Mass.
Valdes, Viviano Luz	1921	I	Monterrey, Mexico
Vallarta, Manuel Sendoval	1921	XIV	Mexico City, Mexico
Vance, Louis Roy, AXA	1920	X U.	106 10th St., Racine, Wis.
Van Kirk, Robert Woods, Jr., ΦBE	1918	X	7117 Harvard Ave., Chicago, Ill.
Van Neste, Raphael	1920	XIV U.	28 Algonquin St., Dorchester, Mass.
Van Neste, Victor	1921	XV U.	28 Algonquin St., Dorchester, Mass.
Vaupel, John Neyson, ΦΓΔ	1921	III	14 Park Vale Ave., Allston, Mass.
Velander, Frans Edvard Hubert	1918	VI Sp.	Mullsjo, Sweden
Ventura, Americo Benedict	1920	U.	147 Cross St., Somerville, Mass.
Vepsala, Alfred	1920	VI	878 Main St., Fitchburg, Mass.
Verney, Arthur Felton	1921	VI U.	31 Sherman St., Roxbury, Mass.
Vincent, Albert George	1921	II	229 Andover St., Lawrence, Mass.
Visscher, John Sherman	1920	II	132 Woodside Ave., Waterbury, Conn.
Vogel, Frank Chafee	1921	X	95 Robinwood Ave., Jamaica Plain, Mass.

Name and Society	Class	Course	Home Address
Vogt, William Henry, ΣΑΕ	1919	II U.	223 N. 5th St., Rockford, Ill.
von Voss, Ernst Frederik Ditlev	1919	X	Copenhagen, Denmark
Vought, Alfred Benedict	1918	II	306 Orient Way, Rutherford, N. J.
Wagner, Harold Clifford	1921	X	103 Water St., Medford, Mass.
Wald, William	1921	I U.	99 Myrtle St., Boston, Mass.
Wales, Arthur Edward	1919	II U.	6 Elm St., Brookline, Mass.
Walker, Albert Charles	1919	X U.	1835 Vine St., Denver, Colo.
Walker, Sibyl	1918	XII U.	1205 E. S. Temple St., Salt Lake City, Utah
Wallace, Ralph Hoffman	1921	XIII	1192 Morton St., Mattapan, Mass.
Wallerstein, Henry	1919	X U.	825 7th Ave., New York, N. Y.
Walmsley, George	1920	VI	245 Query St., New Bedford, Mass.
Walworth, Walter Frederick	1919	XI	48 Crawford St., Lowell, Mass.
Wang, Chen Chi	1921	II	Sian, China
Wang, Han Chen	1920	VI U.	Tientsin, China
Wanser, Roy	1918	XV	2526 Grand Blvd., Bronx, New York, N. Y.
Ward, John Robertson, ΔΨ	1919	IV U.	260 Washington Ave., Brooklyn, N. Y.
Warriner, Robert Peverell	1920	XV U.	27 Dixwell Ave., Quincy, Mass.
Wason, Alfred Boyd, ΧΦ	1920	XV	1530 Beacon St., Brookline, Mass.
Wason, Elbridge, ΧΦ	1920	U.	1530 Beacon St., Brookline, Mass.
Waterman, Warren Gookin, Jr., ΔΤΔ	1921	VI	724 Foster St., Evanston, Ill.
Watov, Abram Elias	1921	X	101 Hancock St., Trenton, N. J.
Watt, Charles Henry	1918	III U.	14 Hill St., Lexington, Mass.
Watts, Earle Francis	1920	I	735 E. Squantum St., Quincy, Mass.
Way, Donald Dickinson, ΛΦ	1919	VI	21 Claremont Ave., New York, N. Y.
Weatherston, Douglas, Jr.	1921		Mexico City, D. F., Mexico
Webber, Eaton, ΑΧΑ	1919	II	199 Hunnewell Terrace, Newton, Mass.
Webber, Julian Taylor	1921	VI	10 Tilton Terrace, Lynn, Mass.
Webber, Ralph Bickerstaff	1921	XV	1195 Beacon St., Brookline, Mass.
Weber, Harold Christian	1918	X	160 Brook Rd., Milton, Mass.
Webster, Dean Kingman, Jr., ΦΒΕ	1919	X	19 Wyman St., Lawrence, Mass.
Webster, Fullerton Deering	1921	VI	12 Hampshire St., Everett, Mass.
Wei, Tsen Fu	1920	XIII U.	Canton, China
Wei, Wing Lock, B.Sc.	Grad.	VI	Hong Kong, China
Weiscopf, Marcus William	1918	II	1782 Beacon St., Brookline, Mass.
Weiskittel, Francis Anton	1919	XV U.	2933 N. Charles St., Baltimore, Md.
Weisman, Myer	1921	I	177 Saratoga St., Lawrence, Mass.
Welch, William Grow, ΘΔΧ	1920	II U.	21 Purchase St., Milford, Mass.
Wells, Francis Gerritt	1921	III	15 Fairview St., Roslindale, Mass.
Wells, Harold Curtis	1919	IV	34 Bates Road, Watertown, Mass.
Wells, Robert Hawley, ΔΚΕ	1919	XII U.	156 Westmoreland Pl., Los Angeles, Cal.
Wells, Scott Hunter, ΔΚΕ	1920	II U.	601 E. Main St., Portland, Ore.
Wenberg, Jordan William	1920	VI	31 Sargent St., Lawrence, Mass.
Wendler, Paul Bernard, ΔΤΔ	1921	XV	711 Salem Ave., Dayton, O.
Wentworth, Clarence Shepherd	1921	II U.	11 Shepard St., Lynn, Mass.
Wescott, Hezekiah Allen, ΛΦ	1921	XIII	Onley, Va.
West, Thomas Henry, 3rd, ΔΨ	1921		101 Prospect St., Providence, R. I.
Westland, Charles Edward	1919	I	4 Aldrich St., Winter Hill, Mass.
Westland, Clayton Carpenter	1921		4 Aldrich St., Winter Hill, Mass.
Weston, John Lambert	1921	VI	42 Jacques St., Winter Hill, Mass.
Wetherbee, George Brown	1921	II	829 High St., Bath, Me.
Wetherbee, Winslow	1920	XV U.	Terrace Ave., Newton Hlds., Mass.
Wetherell, Whitney Harold	1921		25 Harvard St., Natick, Mass.
Wexler, David	1920	I	242 Palmer St., Fall River, Mass.
Wexler, Hymen Albert	1921	II	33 Bevel St., Lawrence, Mass.
Weymouth, Henry Stanley	1919	I	Dexter, Me.
Weymouth, Lawrence Elmer	1920	X	Dexter, Me.
Wheatland, David Pingree, ΔΨ	1921		Topsfield, Mass.

Name and Society	Class	Course	Home Address
Whelan, Daniel Edward, Jr.	1920	I	91 No. Leyden St., Campello, Mass.
Whelan, Frank Hubert Edgar	1921	I	72 Columbia Rd., Dorchester, Mass.
Whelpley, Frederick Ernest	1921	X	99 Fayerweather St., Cambridge, Mass.
Whelton, Francis Russell	1921	U.	61 Allen St., Boston, Mass.
Whitaker, Murray Morrison	1920	X	934 Dayton St., Hamilton, O.
Whitcomb, Ralph Leslie	1918	II	S. Main St., Sharon, Mass.
White, Charles Eaton Browning	1919	I	2135 Parkwood Ave., Toledo, O.
White, Harry Bertram	1921	IV	183 River St., Cambridge, Mass.
White, Hartley Emery	1921	X	40 Maple St., Braintree, Mass.
White, Horace Dyball	1919	I	67 Yerxa Rd., Cambridge, Mass.
White, Kenneth Blake, ΘX	1920	XV	400 Crown St., Morrisville, Pa.
Whitehead, Ernest Parker	1920	I U.	9 Hall St., Worcester, Mass.
Whitehouse, Robert Rolfe	1921	VI U.	Unity, Me.
Whitman, Edmund Spurr, ΑΤΩ	1921	II U.	235 Edgerton Rd., Akron, O.
Whiton, Henry Rogers	1919	VI–A.	Hingham Center, Mass.
Whitten, Lyman Perley, ΦΓΔ	1920	X U.	56 Hawthorne St., Malden, Mass.
Whitworth, Francis Thomas	1921	X	7 Henry Ave., West Somerville, Mass.
Whorf, Benjamin Lee	1918	X	94 Somerset Ave., Winthrop, Mass.
Widdowson, Russell Jerome	1920	V	18 Center St., Holyoke, Mass.
Wiegand, Frederick William	1921	III	Mexico City, Mexico
Wiegand, Joseph Nicholas	1921	XV	814 2nd Ave. S., Great Falls, Mont.
Wilde, Winfred Charles	1920	IV U.	105 Middlesex St., North Andover, Mass.
Wildner, Edwin Lincoln	1921	X U.	855 Main St., Holyoke, Mass.
Wiley, Sumner Kennard, ΑΧΑ	1918	IV	25 Fenwick St., Somerville, Mass.
Wilkins, Richard Alfred, ΦΒΕ	1918	X	1514 Beacon St., Brookline, Mass.
Wilks, Herbert Edwin	1921		91 Water St., Danvers, Mass.
Willard, Laurence Litchfield	1921	II U.	8 Oakland St., Natick, Mass.
Willey, Dean Frederick, ΑΤΩ	1920	U.	111 N. Adams St., Manchester, N. H.
Williams, Abraham Jose	1919	I	Choluteca, Honduras, C. A.
Williams, Amory Leland	1918	IV U.	Woodstock, Vt.
Williams, Benjamin	1921	II U.	63 Shawmut St., Chelsea, Mass.
Williams, Ellen Elizabeth, A.B.	1919	Sp.	Hotel Puritan, Boston, Mass.
Williams, John Albert, ΔΚΕ	1918	IV	1415 N. Caroline St., Baltimore, Md.
Williams, Oliver Edwin, Jr., ΔΨ	1921	XIII	92 Mt. Vernon St., Boston, Mass.
Williams, Russell Estes	1919	II	140 Dean St., Taunton, Mass.
Williams, Theodore Stanwood	1921	II	256 Eliot St., Milton, Mass.
Willis, Philip Alphonsus	1921	IV U.	Cambridge St., Ayer, Mass.
Wills, Royal Barry, ΑΧΑ	1918	IV	53 Oakland St., Melrose, Mass.
Wilson, Charles Thomas	1920	IV U.	5596 Berlin Ave., St. Louis, Mo.
Wilson, Ellsworth MacNaull, ΧΦ	1921	XV	45 Harrison Ave., Montclair, N. J.
Wilson, Everett James	1921	II	Newburyport, Mass.
Wilson, George Arthur	1920	II	9 Beacon Ave., Newburyport, Mass.
Wilson, Henry Everett	1919	I	79 County Rd., Ipswich, Mass.
Wilson, Irving Harrison, ΑΧΑ	1920	VI U.	14 Rhodes Ave., Lynn, Mass.
Wilson, John Chester, ΘΔΧ	1920	XIV U.	295 N. 24th St., Portland, Ore.
Wilson, Leland David, ΑΧΑ	1920	I	Lathers Place, New Rochelle, N. Y.
Wilson, Walter Chadbourne, ΦΒΕ	1918	XV	34 13th St., Lowell, Mass.
Wimmer, John Duhme, ΒΘΠ	1921	XV	606–7 Odd Fellows Bldg., Indianapolis, Ind.
Winaat, Walter Lawrence, ΔΤ	1920	XV U.	9 Holmes St., Poughkeepsie, N. Y.
Winchester, Marshall Hayden, ΘΔΧ	1921	II	41 Lincoln St., Manchester, Mass.
Windisch, Richard Philip, ΣΧ	1920	X U.	3505 Clifton Ave., Cincinnati, O.
Windle, Arthur Elmer, ΦΣΚ	1918	II	984 N. Main St., Brockton, Mass.
Winebaum, Arthur	1920	I U.	390 Hampshire St., Lawrence, Mass.
Winkfield, Holley Stetson	1919	VI–A.	39 Bradley St., Winter Hill, Mass.
Winn, John James, Jr.	1921	X	102 Lakeview Ave., Haverhill, Mass.
Winsor, Clarence Edgar	1921	U.	318 Spruce St., Chelsea, Mass.

Name and Society	Class	Course	Home Address
Wirt, Harrison Loring	1918	XIII	1053 Beacon St., Brookline, Mass.
Wirt, Williston, ΘX	1921	XV	39 Abbott Rd., Wellesley Hills, Mass.
Wishman, John Henry	1921	I	38 Church St., Malden, Mass.
Wiswall, George Henry, Jr., BΘΠ	1919	XV U.	39 Marion Rd., Watertown, Mass.
Wolfe, Lester, ΣAM	1919	VIII	923 Fox St., New York, N. Y.
Wolff, Louis	1919	VII	23 Dana St., Revere, Mass.
Wolfson, James Jacob	1920	IV	953 Mass. Ave., Cambridge, Mass.
Wolozin, Julius	1920	VI U.	142 Chelsea St., East Boston, Mass.
Wong, Zeng-Tze	1918	II	Shanghai, China
Wood, Albion Royal	1921	VI	13 Prospect St., Claremont, N. H.
Wood, Kenneth Fuller	1919	IV U.	Adams Rd., Framingham, Mass.
Wood, Ralph Waldo, ΣAE	1921	X	121 Albert Ave., Edgewood, R. I.
Wood, Raymond Vincent	1921	II	289 Jackson St., Lawrence, Mass.
Woodland, Lester Northrup	1918	IV	204 Franklin St., Melrose Hlds., Mass.
Woodruff, Louis Frank, 2nd, B.S.	1918	VI	Columbus, Ga.
Worcester, John Newton	1921	I U.	3 Concord Ave., Cambridge, Mass.
Worsencroft, Robert Rockwood	1921	I	23 Nye Ave., Brockton, Mass.
Wright, Henry Wagner, A.B.	1919	IV Sp.	241 Locust St., Danvers, Mass.
Wright, Leigh Washburn	1920	I U.	582 School St., Belmont, Mass.
Wright, Theodore Paul, B.S., ΣN	1918	IV	72 Fayerweather St., Cambridge, Mass.
Wrigley, Paul Pickering, B.A.	1918	VI	53 Remsen St., Brooklyn, N. Y.
Wu, Ching-Lieh	1918	X	Chekiang, China
Wurzelbacher, George Milton, A.B.	1920	VI	1023 Dayton St., Cincinnati, O.
Wyer, William, A.B., BΘΠ	1918	IX U.	399 Western Ave., Albany, N. Y.
Wylde, Edward Pilkington	1921	X	19 Orchard Terrace, North Adams, Mass.
Wyse, Francis Octavus, XΦ	1919	II	4 Violet Ave., Toronto, Ont.
Yang, Pan-waung, B.S.	1920	IV	Shanghai, China
Yao, Char Foo	1919	II	Anhui, China
Yeh, Tek Chen	1919	XV	Shanghai, China
Yeh, Yu Liang, B.A.	Grad.	V	Hong Kong, China
Young, Albert Morse	1921	V	22 Appleton St., Manchester, N. H.
Young, Edward Leavitt	1921	XIII	Bellport, N. Y.
Young, Herbert Franklin, ΘΔX	1920	XV	334 Harvard St., Cambridge, Mass.
Young, Ira Randolph	1918	II	74 Agassiz Ave., Waverley, Mass.
Young, Oscar Philip, ΘΞ	1920	IV	Stony Brook, Mass.
Young, Philip Lee, XΦ	1920	X	1705 Fourth Ave., Louisville, Ky.
Young, William Hoyt, Jr., ΦΣK	1921	I	385 Ellison St., Paterson, N. J.
Zager, Harold Louis Arnold	1921	X	34 Egleston St., Jamaica Plain, Mass.
Zahn, Edward Gustav	1920	VI	11 Enfield St., Jamaica Plain, Mass.
Zeitfuchs, Edward, B.S.	Grad.	X	5 De Wolfe St., Cambridge, Mass.
Zimmerman, William Earl, ΘΔX	1920	XIV	748 Weidlei St., Portland, Ore.
Zoller, Miles Miller, BΘΠ	1921	X	Avondale, Cincinnati, O.
Zubiria, S. Alfredo de, ΦBE	1919	V	Cartagena, Colombia, S. A.
ZurWelle, Fred Ernst	1920	IV	643 N. 31st St., East St. Louis, Mo.


BUYERS' GUIDE
ONIX FIRE
PURE
SILK

Old Colony Service

An efficient and courteous organization, progressive methods, large resources and three offices, conveniently located in different sections of Boston, combine to make the Old Colony Trust Company the most desirable depository in New England.

The Trust Department is equipped to execute Trusts of every description with all the powers that can be conferred upon an individual.

The Foreign Department is prepared to issue commercial credits, buy or sell bills of exchange and accept time drafts covering foreign and domestic shipments of merchandise.

The Investment Department, at all times in close contact with the bond market and financial affairs in general, is at your disposal.

Old Colony Trust Company

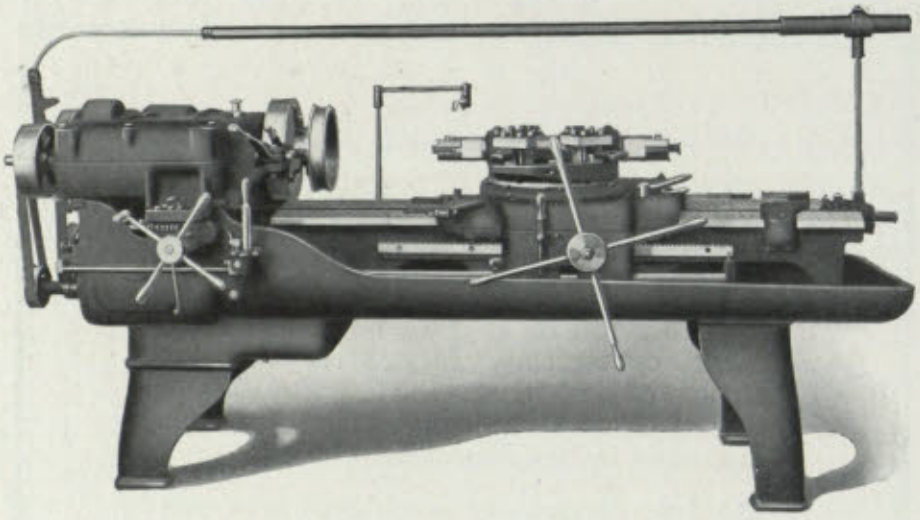
17 Court Street

52 Temple Place 222 Boylston Street

Boston

Capital and Surplus	$13,000,000
Total Resources over	150,000,000

MEMBER OF THE FEDERAL RESERVE SYSTEM



3 x 36 Set Up for Chucking Work

The

Hartness Flat Turret Lathe

IS BUILT IN TWO SIZES

3 x 36 with 14-inch swing 2¼ x 24 with 12-inch swing

Outfits of Tools Furnished for both Bar and Chucking Work

Important Features

Single Speed Drive. All changes in Speed and Feed Instantly Obtainable. Cross-Feeding Head. Turret Stops Operate in either Direction. Turners with Double-Size Turning Adjustments and Roller Back Rests.

JONES & LAMSON MACHINE CO.

Main Office and Works: SPRINGFIELD, VERMONT, U. S. A.

British Office; 109 Queen Victoria Street, London, England. *France and Spain;* F. Auberty & Co., 91 Rue de Maubeuge, Paris. *Holland;* Spliethoff, Beeuwkes & Co., Rotterdam.

WESTERN UNION AND LIEBER'S CODES USED

Band Instruments
Drums, Bugles

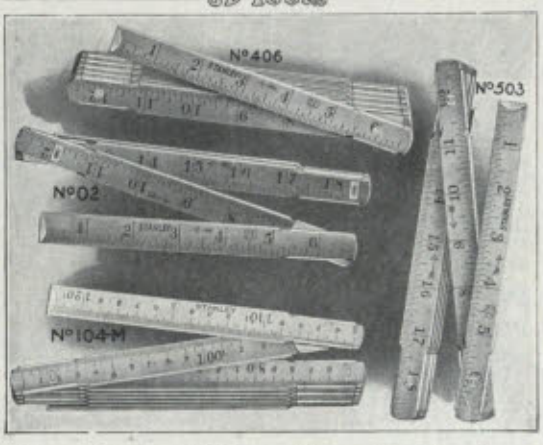
Supplies of all kinds
for Band & Orchestra

Banjo Mandolins, Mandolins,
Ukuleles, Guitars, Banjos

The Khaki Song Book
(for our Soldier and Sailor Boys)

Oliver Ditson Co.
178-179 Tremont Street, Boston

Stanley Tools



Stanley "Zig Zag" Rules

Stanley "Zig Zag" Rules are exceptionally well made,—are of thoroughly seasoned wood, and have a specially fine finish. The joints contain a stiff spring which holds the Rule rigid when open, even in the longest lengths. Made in 2, 3, 4, 5, 6 and 8 foot lengths, in several styles of figuring, and with white or yellow enamel finish.

STANLEY RULE & LEVEL CO.
NEW BRITAIN, CONN. U.S.A.

BURTON-FURBER COAL CO.

SOLE AGENTS

Crozer-Pocahontas Coal

SELECTED GRADES OF
ANTHRACITE COAL

WHARF, 120 BORDER STREET
EAST BOSTON

MAIN OFFICE
50 CONGRESS STREET

Brigham's Milk

When sirloin steak sells at 40 cents per pound and fresh eggs at 48 cents per dozen, MILK is worth 27¼ cents per quart in food value.

Use More Milk

C. BRIGHAM CO.
CAMBRIDGE



All the

Cut Indiana Limestone

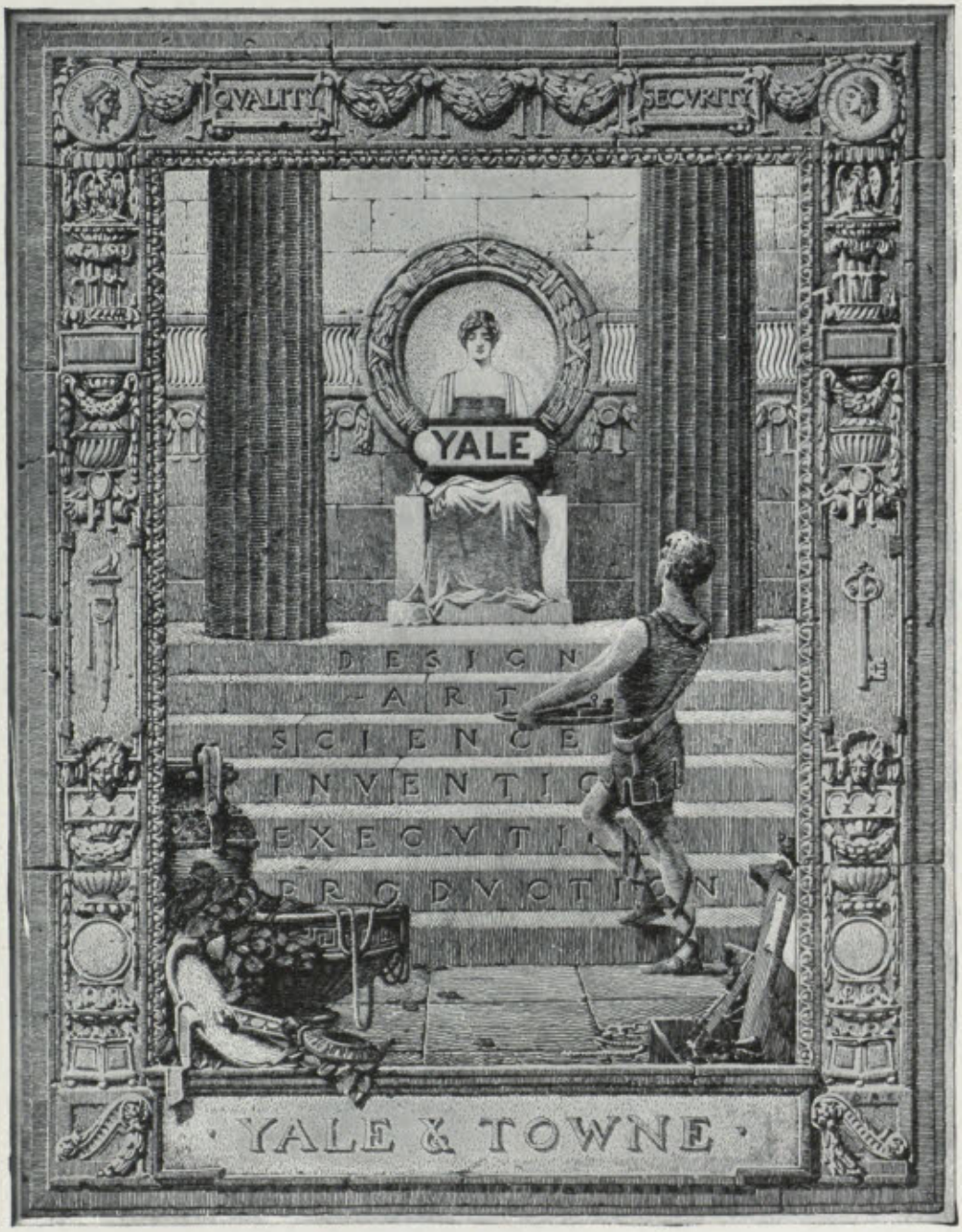
for the Technology Group Dormitories, Walker Memorial *and* President's House

Furnished by

Shea & Donnelly Co.

Lynn, Mass. Boston, Mass. Bedford, Indiana

Tech-Technique Football Game the usual walkover — journalists accused of being yellow.



Harvard Salad at Walton's — sliced fruit.

SAMSON SPOT SASH CORD



REG. U. S. PATENT OFFICE

¶Proved by both tests and actual experience to be the most durable and economical material for hanging windows. Guaranteed free from all imperfections of braid or finish.

¶We make extra quality solid braided cord for all purposes, including Sash Cord, Clothes Lines, Transmission Rope, Trolley Cord, Arc Lamp Cord, Bell and Register Cord, etc. *Send for Catalog.*

SAMSON CORDAGE WORKS **BOSTON, MASS.**

HERBERT G. PRATT, 1885, President and Treasurer

SOUTHERN OFFICE: Charlotte, N. C. Rogers W. Davis, Southern Agent

SACO-LOWELL SHOPS

Textile Machinery

77 FRANKLIN STREET, BOSTON, MASS.

SHOPS: NEWTON UPPER FALLS, MASS. LOWELL, MASS. BIDDEFORD, MAINE

TRADE MARK

The Brasscrafters

12-16 Ames St., Cambridge, Mass.

Opposite Tech

Highest Quality Sanitary Bathroom Accessories

Used in Palaces, Apartment Houses and Homes all over the world



Used in finest Hotels, Public Buildings, Merchant and Warships

View in Sample Factory Room

Remember us when planning your first building

Men ordering uniforms in October expected them with degrees — at least by degrees.

HOTEL SOMERSET
BOSTON

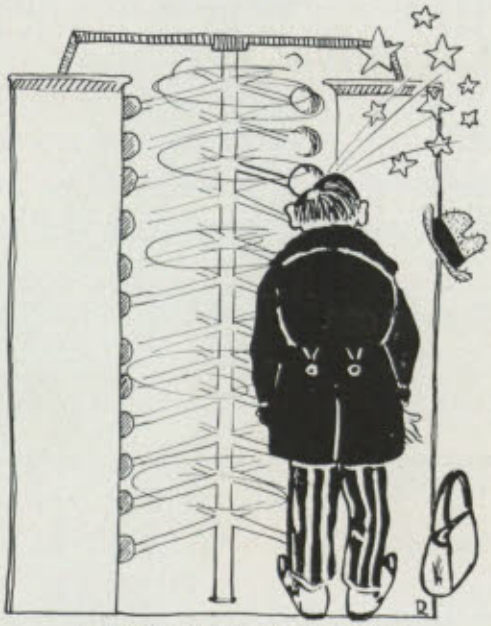
¶ A hotel which has two banquet halls and parlors for receptions, small dinners and dancing parties.



¶ A home for the family without care.

¶ Transient accommodations, single room and bath $3.00 per day and up; 2 room suite $7.00 per day and up.

FRANK C. HALL, *Manager*



First Impressions of Boston
How the subway struck me

IN BOSTON

You have a choice of three excellently conducted hotels:

HOTEL TOURAINE

Universally esteemed for its luxury, beauty, and distinctive, homelike atmosphere.

PARKER HOUSE

A family hotel of traditions and exceptional comfort. Perfectly appointed.

YOUNG'S HOTEL

In the financial district. World-wide reputation for New England cooking.

—

J. R. WHIPPLE COMPANY

He: "Do you know the Lieutenant?" She: "I don't know; hum the first bars."

Peter Gray & Sons, Inc.

Manufacturers of

LABORATORY APPARATUS

FOR STATE, INSTITUTION, AND MUNICIPAL LABORATORIES

Sheet Metal Specialties
Designed & Built to Order

286 THIRD STREET
EAST CAMBRIDGE, MASS.

CHARLES COOPER & CO.

ESTABLISHED 1857

Office: 194 Worth Street, New York — Works: Newark, New Jersey

Manufacturers of Chemicals for over Sixty Years

A Full Line of Technical and Medicinal Chemicals

SPECIALTIES

Collodion, U.S.P. Flexible Collodion, U.S.P. Silver Nitrate, C. P.
Nitric, Muriatic and Sulphuric Acids

Monthly Price List Issued

National Aniline & Chemical Co., Inc.

21 Burling Slip — New York, N. Y.

The largest Manufacturers of

Aniline Colors

and

Coal Tar Products

In America

Branch Offices

Boston	Cincinnati	Providence	Minneapolis
Philadelphia	Buffalo	Charlotte	Kansas City
Chicago	Hartford	Milwaukee	

Factories

Buffalo Brooklyn Marcus Hook Wappingers Falls

HEWINS & HOLLIS

Men's Furnishing Goods

4 HAMILTON PLACE, BOSTON

PREPARE FOR THE INSTITUTE

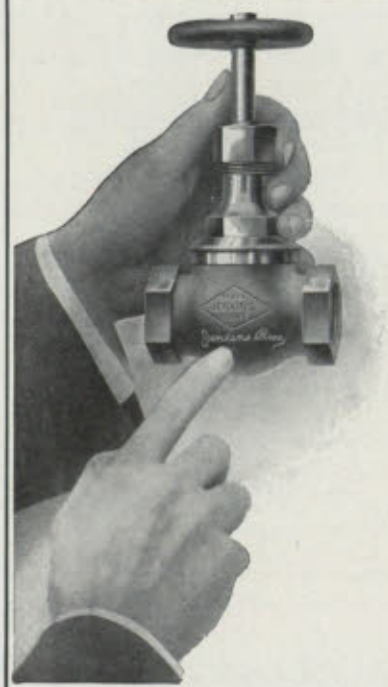
AT CHAUNCY HALL SCHOOL, 533 Boylston Street, Copley Square

The only school confining itself wholly to preparing men for the Institute of Technology

ADVANTAGES:
- New quarters newly furnished, near the Institute.
- Chemical and Physical Laboratories equipped with the best of apparatus.
- Teachers who are specialists in their several departments.
- The number of students in classes is limited, that all may get the most thorough instruction.
- Our candidates not only pass their entrance examinations, but maintain high standing at the Institute.

TECH MEN ARE INVITED TO INSPECT THE SCHOOL OR TO WRITE FOR PARTICULARS

FRANKLIN T. KURT
Principal



THE QUALITY that comes from more than 50 years of concentration on the manufacture of "longer service" valves explains why

Jenkins Bros. Valves

are the choice of those who recognize the valve equipment as a permanent part of the building, to be specified on the basis of service-giving capacity.

There is a JENKINS BROS. VALVE for practically every purpose—for plumbing, for heating, or for power. All genuine bear registered trademark as shown in the cut.

Catalog Descriptive of the Entire Line
Mailed on Request

JENKINS BROS.

NEW YORK BOSTON PHILADELPHIA CHICAGO
MONTREAL LONDON

The Massachusetts Institute of Technology
Cambridge

RICHARD C. MACLAURIN, M.A., Sc.D., LL.D.
President

THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY offers courses, each of four years' duration, leading to the degree of Bachelor of Science, in Civil, Mechanical, Mining, Electrical, Chemical, Sanitary, Geological and Electrochemical Engineering; in Architecture, Chemistry, Biology and Public Health, Physics, General Science, and Naval Architecture, and in Engineering Administration.

To be admitted to the first-year class, applicants must have attained the age of seventeen, and must pass satisfactory examinations in Algebra, Plane and Solid Geometry, Physics, English, History, French, and German, and must present teachers' certificates for two of a series of elective subjects. A division of these entrance subjects between June and September or between two successive years is permitted.

Entrance examinations are held in June and September of each year. In June, applicants are examined by the College Entrance Examination Board in Boston, New York, Philadelphia, Chicago, and many other cities in America and Europe. A circular stating times and places is issued in advance, and will be mailed on application.

Graduates of colleges and scientific schools of collegiate grade are admitted, without examination, to such advanced standing as is warranted by their previous training.

Graduate courses leading to the degrees of Master of Science, Doctor of Philosophy, and Doctor of Engineering are also offered. Special Research Laboratories of Physical Chemistry, Applied Chemistry, and Sanitary Science have been established.

Correspondence should be addressed to Prof. A. L. MERRILL, Secretary of the Faculty.

PUBLICATIONS

The ANNUAL CATALOG (issued in December), the REPORT OF THE PRESIDENT AND THE TREASURER (issued in January), the SUMMER SCHOOL COURSES (issued in April), and circulars in regard to ADMISSION OF STUDENTS FROM OTHER COLLEGES; SUMMER COURSES; ADVANCED STUDY AND RESEARCH.

Any of the above-named publications will be mailed free upon application.

MITCHELL WING COMPANY

109, 111, 113 BROAD STREET, BOSTON

Laundry Supplies, Soaps,
Cleaning Materials

L. E. Knott Apparatus Company

Pyrex Glassware
Whatman Filter Paper
Antimony Rubber Tubing and Stoppers

Manufacturers of
Scientific Instruments

Spencer Microscopes
Hoskins Electric Furnaces
Fused Silica Ware
J. T. Baker C. P. Chemicals

79 AMHERST STREET, CAMBRIDGE, MASS.

Electro-Sun Blue Print & Paper Company

New York, N. Y.

Blueprints and Sensitized Papers

A. L. WEIL, '01, Prop. Manager

CHARLES T. MAIN

Engineer

Rooms 817-833
201 DEVONSHIRE STREET
BOSTON, MASS.

BEMIS BRO. BAG CO.

Cloth and Paper Sacks

Albert Farwell Bemis, '93, *President*

Indianapolis	Bemis, Tenn.	Kansas City
Memphis	Minneapolis	New Orleans
Omaha	Peoria	San Francisco
Seattle	St. Louis	Winnipeg
Houston	Boston	

Compliments of

State Street Trust Company

Main Office
33 State Street

Back Bay Branches

Copley Square Branch
579 Boylston Street

Massachusetts Avenue Branch
Corner Massachusetts Avenue
and Boylston Street

Interest allowed on accounts of $300 and over

NORTON COMPANY

MANUFACTURERS OF ALUNDUM AND CRYSTOLON
GRINDING WHEELS

Alundum and Crystolon
Grain for Polishing

Alundum and Crystolon
Refractories

Rubbing Bricks and Stones

Glass Cutting Wheels

India Oil Stones

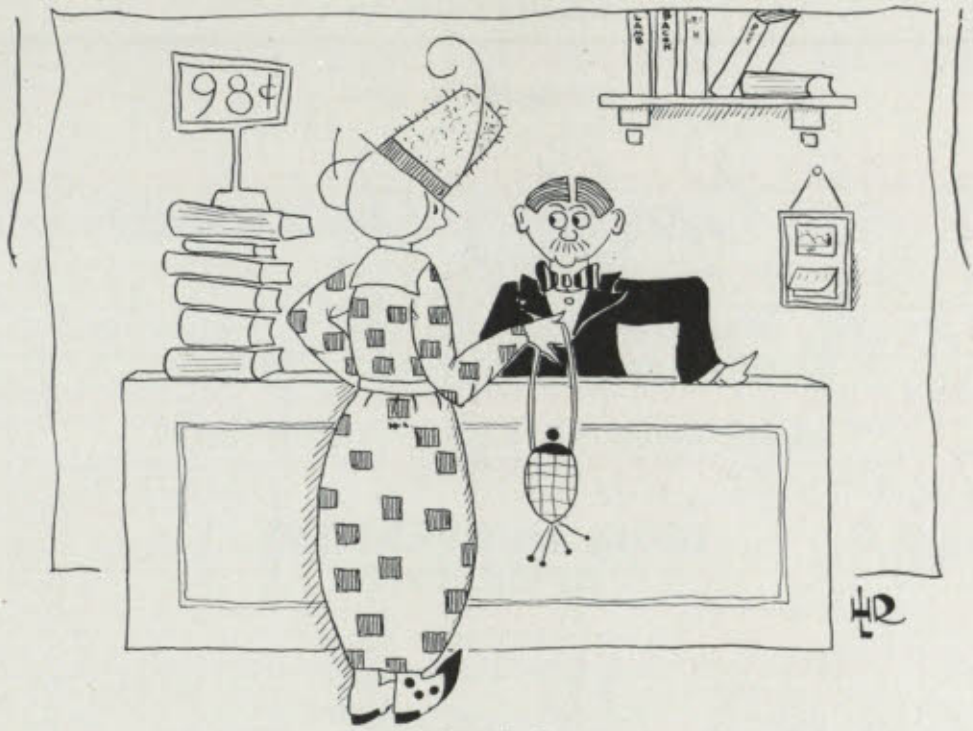
Grinding Machinery

Alundum and
Crystolon Plants,
Niagara Falls, N. Y.
Chippawa, Ont., Can.

Main Works and Office at
WORCESTER, MASS.

New York Store,
151 Chambers Street
Chicago Store,
11 N. Jefferson Street

The Professor is a remarkable man; little escapes him — also much.



The Co-ed at the Co-op

LITERATURE-LOVING LIL: "Have you anything of Swift's, Lamb, or Bacon?"
EXEMPTED EDDIE: "Nothing doin', lady. This is Meatless Day."

ADMIRATION

"THE MILD TAMPA CIGAR"



10c *and Up*

JOSEPH P. MANNING CO.
BOSTON, MASS.



HORSMAN
Tennis Rackets

Unsurpassed in 38 years

fulfill every demand of the tennis player.

Do not select a racket for 1918 until you have seen the new

HORSMAN
Models

If your dealer can't show them write to us

The *Perfect* Tennis Ball is the
"AYRES"

Used the world over by players who know. We are sole U. S. distributors. *Write for Catalog.*



E. I. Horsman Co.
11-15 Union Sq.
New York City

ESTABLISHED 1818

Brooks Brothers.

CLOTHING,

Gentlemen's Furnishing Goods,

MADISON AVENUE COR. FORTY-FOURTH STREET
NEW YORK

100th ANNIVERSARY
APRIL 1918

1818

A complete Establishment
operated continuously
for One Hundred Years
under the same name
and still in the control of the
Direct Descendants of the Founders
for the Outfitting
of Men and Boys from Head to Foot
with Garments and Accessories
for Every Requirement of
Day or Evening Wear
Dress, Business, Travel or Sport

Send for Illustrated Catalogue
and Centenary Booklet

1918

Uniforms and Useful Articles
of Personal Equipment
for Officers in the Service of
the United States
in Camp, Afield or Afloat

BOSTON SALES-OFFICES

LITTLE BUILDING
TREMONT CORNER BOYLSTON STREET

Group picture taken of Dinkins.

JACOB REED'S SONS

MANUFACTURERS OF

Uniforms

For Officers of the Army, Navy, Marine and Aviation Corps

The oldest Uniform Manufacturing House in the United States. The Uniforms in use at the MASSACHUSETTS INSTITUTE OF TECHNOLOGY and many other Military Schools and Colleges have been produced by us.

JACOB REED'S SONS

Main Office 1424-1426 CHESTNUT STREET, PHILADELPHIA

Branches:

611 14TH ST., N. W., WASHINGTON, D. C.
844 MARBRIDGE BUILDING, NEW YORK CITY
GARDEN PIER, ATLANTIC CITY, N. J.
82 MARYLAND AVE., ANNAPOLIS, MD.

Agencies in all large cities

Our College Clothes for Young Men

Are eminently correct in all fashion details, and superior in quality

Visit the College Room, 2nd floor annex

Shuman & Co. Boston
Shuman Corner
THE · SERVICE · STORE.

Dudley & Simonds

Subway Haberdasher

A FULL LINE OF
MEN'S FURNISHINGS

One Day Laundry

115 MASSACHUSETTS AVE.
BOSTON
Opp. Mass. Subway

The Best Clothing Service for "Tech" Men

¶ Clothes for all occasions, ready to put on or made to order.

¶ Fine Furnishing Goods.

¶ Stiff and Soft Hats—Stetsons exclusively.

¶ Officers' Uniforms for all branches of the Service made to order.

MACULLAR PARKER COMPANY

400 Washington Street



The Slide Rule (at the St. Jimmie)

Keep your distance

Dress Suits To-Let

With White Vests

SINGLE SUITS OR IN CLUB LOTS. SPECIAL PRICES ON SLIGHTLY USED DRESS SUITS



R. & W. Brand

READ & WHITE, *Tailors*

Ralph M. Read — Fred H. White, Jr.

111 SUMMER STREET, BOSTON

(OVER REGAL SHOE)

SPECIAL RATES TO CLUBS

TEL. CONNECTION — PROMPT SERVICE

Pfister & Vogel Leather Co.

MILWAUKEE, WIS., U. S. A.

Tanners of

HIGH-GRADE LEATHER

since 1847 for Shoe Upper Soles, Harness, and Heavy Gloves

Pfister & Vogel Company

Distributors

85-89 SOUTH STREET, BOSTON

E. J. BROWN, N. Eng. and Can. Mgr.

Tavern Lunch Co.

10 Ames Street

Near the Dorms



Reasonable Prices

Evening Wear

Arrow Dress Shirts	$2.00
White Gloves	2.00
Perfect Dress Ties	.50
Silk Mufflers	2.00 to 5.00
Full Dress Sets	1.00 to 2.50
Silk Hats	9.00

Your store can supply your needs

Technology Branch

HARVARD COÖPERATIVE SOCIETY

CAFÉ DE PARIS

12 HAVILAND ST., BOSTON, MASS.
Near Boylston Street, Opp. Fenway Theatre

Restaurant Français

MME. F. COLIN, Proprietor

Table d'Hote Lunch, 11 A. M. to 3 P. M. 30 Cents
Table d'Hote Dinner, 5 to 7.30 P. M. 40 Cents

WITH MUSIC

Tel. Back Bay 71042

THOMAS TODD CO.

THOMAS TODD, JR., '99

A FAMILY OF *PRINTERS* FOR OVER 100 YEARS

TELEPHONE, HAYMARKET 601

14 BEACON STREET, BOSTON, MASSACHUSETTS

ROBERT A. BOIT & CO.

Insurance

40 KILBY STREET
BOSTON



GO TO
KABATZNICK'S
FOR
Artistic Pictures & Framing
484 BOYLSTON STREET
BOSTON, MASS.
Opposite Old Rogers Building
BRANCH STORE, 182 BOYLSTON ST.
Visit our new painting gallery

Charles H. Johnson, '05

Representing

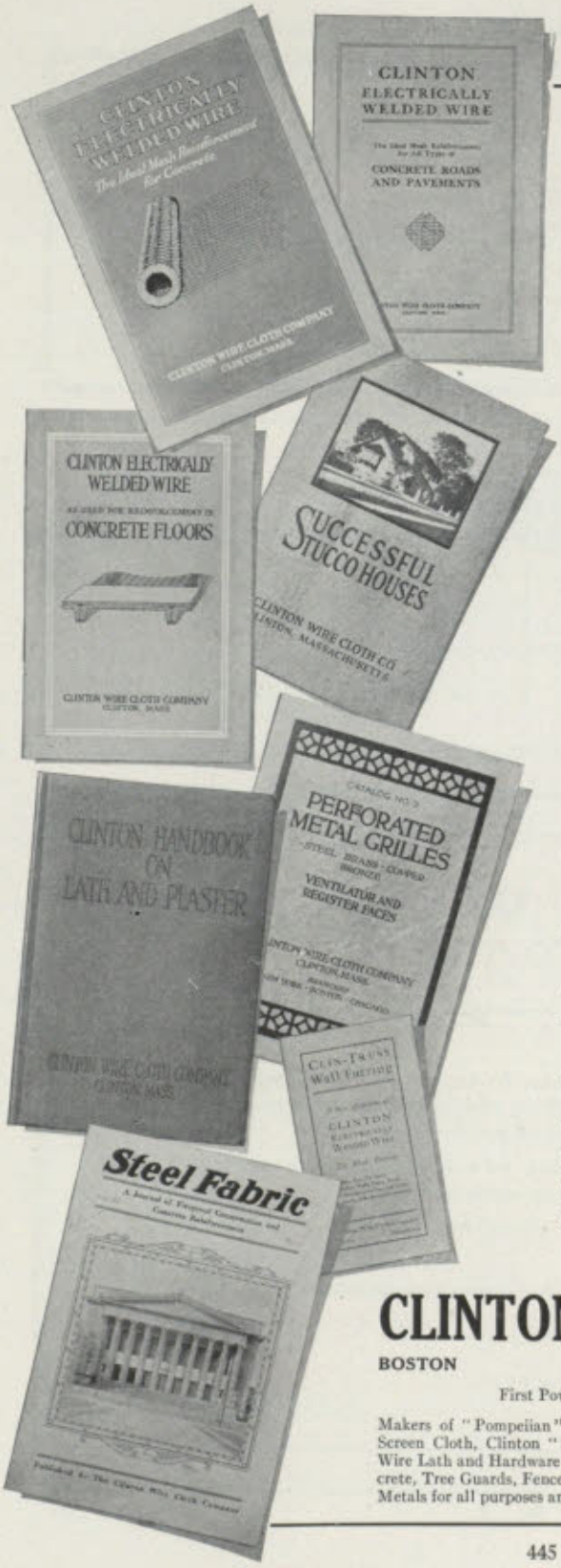
NEW ENGLAND MUTUAL LIFE
INSURANCE COMPANY
OF BOSTON, MASS.

Oldest Chartered Company in America
Obtain our Figures first and not afterward

176 Federal Street
Boston, Mass.

PHONES { Main 5571
Main 5572

First Bulletin — "Juniors to graduate in October, 1918."



Invaluable Data for the Engineer and Architect

SENT UPON REQUEST

Let us send you our catalogs to add to your library. These books thoroughly cover the following subjects:

Floor and Slab Reinforcement.
Concrete Road Reinforcement.
Concrete Protection Work for Structural Steel.
Correct Support for Plaster and Stucco.
Unbreakable Grilles for Concealed Radiation and Similar Uses.

Your name and address are all that is necessary to secure one or all

"Clinton Welded Sheathing."
"Clinton Electrically Welded Wire as Used in Miscellaneous Concrete Construction."
"Clinton Electrically Welded Wire as Used for Reinforcement in Concrete Floor."
"Clinton Electrically Welded Wire for Reinforcing Concrete Roads and Pavements."
"Clinton Handbook on Lath and Plaster."
"Successful Stucco Houses."

We are especially anxious to receive requests from instructors at Engineering Colleges for a sufficient quantity of our literature to distribute to classes. Shipments will be made promptly, prepaid.

CLINTON WIRE CLOTH CO.

BOSTON **NEW YORK** **CHICAGO**

First Power Loom Weavers of Wire Cloth in the World

Makers of "Pompeiian" and "Golden Bronze" Screen Cloth, Clinton Painted Wire Screen Cloth, Clinton "Silver Finish" Screen Cloth, Clinton Poultry Netting, Clinton Wire Lath and Hardware Cloth, Clinton Electrically Welded Fabric for reinforcing concrete, Tree Guards, Fence Gates, Clinton Perforated Steel Rubbish Burners, Perforated Metals for all purposes and processes.

HOWARD L. COBURN, '98

Chief Engineer

AMBURSEN CONSTRUCTION COMPANY, Inc.

Engineers—Constructors—Hydro-Electric Developments, Dams, etc.

61 BROADWAY, NEW YORK

Fay, Spofford & Thorndike

CONSULTING ENGINEERS

Frederic H. Fay
Charles M. Spofford
Sturgis H. Thorndike

308 BOYLSTON ST., BOSTON, MASS.

F. H. BLACKINTON

Dispensing Optician

All Kinds of Optical Work. Oculists' Prescriptions a Specialty

Tel. Back Bay 2754

101 MASSACHUSETTS AVE., BOSTON
Corner Newbury Street

STONE & WEBSTER

FINANCE public utility developments.

BUY AND SELL securities.

DESIGN steam power stations, hydro-electric developments, transmission lines, city and interurban railways, gas plants, industrial plants and buildings.

CONSTRUCT either from our own designs or from designs of other engineers or architects.

REPORT on public utility properties, proposed extensions or new projects.

MANAGE railway, light, power and gas companies.

NEW YORK BOSTON CHICAGO

American Dyewood Company

Dyewood Extracts, Hematine & Aniline Colors

115 High Street, Boston, Massachusetts

STATIONERS TO THE INSTITUTE FOR FINE STATIONERY, HIGH GRADE ENGRAVING, PRINTING

Ward's BOSTON

STUDENTS' SUPPLIES, FOUNTAIN PENS, LEATHER SPECIALTIES AND BRASS GOODS

WEDDING STATIONERY, INVITATIONS, RECEPTION AND VISITING CARDS
PROGRAMS, MENUS AND DANCE ORDERS FOR COLLEGE, CLASS AND ALUMNI GATHERINGS. FRAT STATIONERY.

57-61 FRANKLIN STREET BOSTON, MASSACHUSETTS

HOTEL LENOX
BOSTON



A hotel which has the atmosphere of a college club.

Historic as a stopping place for University Athletic Teams.

Unusually attractive to college men — graduates or undergraduates.

Popular for its dances in the Palm Room from 9 P. M. to 1 A. M. Saturdays 9 P. M. to 12 P. M.

L. C. PRIOR, - - - *Managing Director*

Archbishop of York greatly impressed by a "regular M. I. T."



"Hey, mister, what factory is that?"

Bigelow, Kennard & Co., Inc.

Jewellers and Silversmiths

∴

Makers of
FINE WATCHES
& CLOCKS

511 Washington St., Boston, Mass.
Corner of West Street

SPCo

Smith, Patterson Co.

DIAMOND MERCHANTS, JEWELERS, SILVERSMITHS

52 Summer Street, Boston, Mass.

Emblem Jewelry

Official Agents in Boston for the L. G. BALFOUR CO., FRATERNITY BADGES
PINS, CHARMS, AND RINGS

Estimates and designs furnished for special jewelry

Camouflage Perspective: — Find the vanishing point.

The Standard by which all other makes are measured

ATLAS Portland Cement passes all tests—7,500,000 barrels used for the Panama Canal and every 100-barrel lot tested by the United States—but not a single barrel rejected.

The Atlas Portland Cement Co., 68 Devonshire St., Boston

New York Chicago Philadelphia St. Louis Minneapolis Des Moines Dayton Savannah

Negative Paper

Drawing Paper

Tracing Cloth and Papers

Litho Prints

Spaulding-Moss Company

Manufacturers of

Blue Process Papers and Linens

Blue Printing Drawing Materials

44 Federal Street . Boston, Mass.

Telephone Main 6000 connecting all departments

Photographic Copying

Mailing Tubes

Drafting Room Furniture

Try "A Real Chemist"

GEORGE W. MILES

88 BROAD STREET
BOSTON, MASS.

25 YEARS' EXPERIENCE

Riverbank Court Hotel

Opposite Mass. Institute Technology

Café on European Plan

TABLE D'HOTE LUNCHEON AND DINNER

Combination Club Breakfasts
A la Carte Bill of Fare at all meals

Special arrangements for banquets, luncheons, and assemblies in the Dutch Room

Brass—Copper Bronze—Steel

VULCANIZED FIBRE

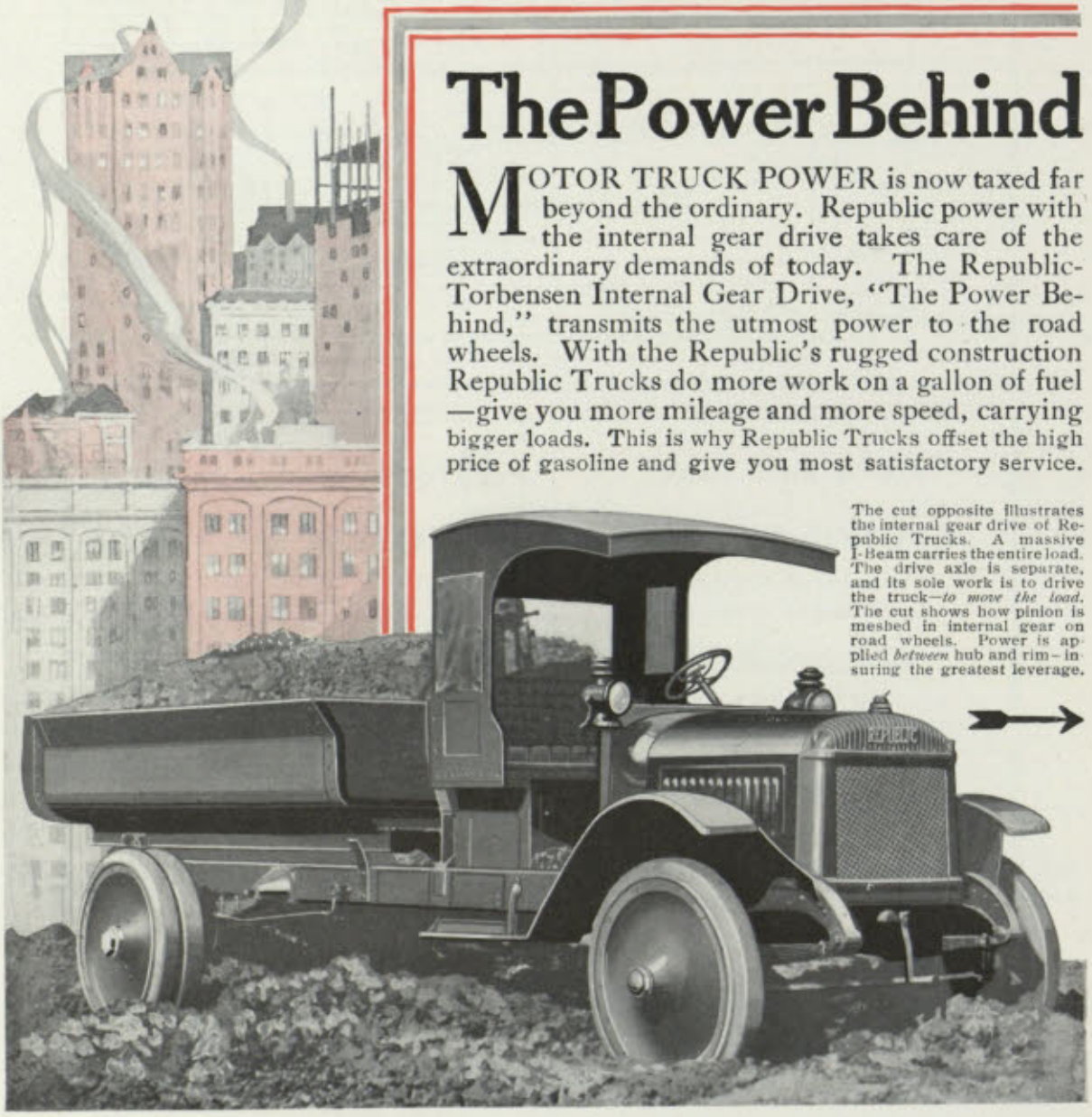
In Sheet, Rod, Wire, Tube
(Cutting to Dimension)

SCREWS, RIVETS
NUTS, BOLTS
WASHERS AND
FORMATIONS

Homer F. Livermore, Inc.

85-87 Pearl Street, Boston

REPUBLIC
INTERNAL



The Power Behind

MOTOR TRUCK POWER is now taxed far beyond the ordinary. Republic power with the internal gear drive takes care of the extraordinary demands of today. The Republic-Torbensen Internal Gear Drive, "The Power Behind," transmits the utmost power to the road wheels. With the Republic's rugged construction Republic Trucks do more work on a gallon of fuel —give you more mileage and more speed, carrying bigger loads. This is why Republic Trucks offset the high price of gasoline and give you most satisfactory service.

The cut opposite illustrates the internal gear drive of Republic Trucks. A massive I-Beam carries the entire load. The drive axle is separate, and its sole work is to drive the truck—*to move the load.* The cut shows how pinion is meshed in internal gear on road wheels. Power is applied *between* hub and rim—insuring the greatest leverage.

TRUCKS

GEAR DRIVE

Seven Models ¾-Ton to 5-Ton

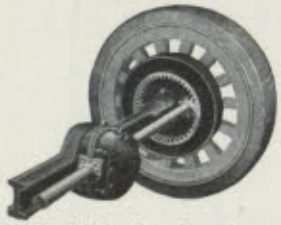
SEVEN REPUBLIC MODELS provide all capacities for every purpose: Republic Special ¾-ton with Republic capacity for excess strain; Republic Dispatch for delivery purposes, maximum capacity 1500 pounds; Model Ten 1-ton; Model Eleven 1½-ton; Model A 2-ton; Model T 3½-ton Dreadnaught; Model V Thoroughbred 5-ton.

We furnish every type of body, including hoist, gravity and elevating dump. Write for book on any model.

REPUBLIC MOTOR TRUCK CO., Inc., Alma, Michigan

See Your Nearest Republic Dealer

Dealers and Service Stations in Over 1200 Distributing Centers



Road wheel and section of rear axle construction showing internal gear drive.

HIGH GRADE CORKS

FOR

CHEMICAL *and* BACTERIOLOGICAL REQUIREMENTS

AMERICAN CORK CO., Inc.

16 BLACKSTONE STREET BOSTON

ARTHUR D. LITTLE, Inc.

An organization of thirty years' experience in the solution of industrial and engineering problems pertaining to increased efficiency and economy of operation

CHEMISTS, ENGINEERS, MANAGERS

30 CHARLES RIVER ROAD CAMBRIDGE

DRAWING INSTRUMENTS

Boards, Tee Squares, Triangles, Curves, Paper, Leveling Rods, Poles, Steel Tapes

E. G. RUEHLE & CO.

119 FULTON STREET, NEW YORK

Factory, Jersey City, N. J. Branch, Newark, N. J.

Established 1834 H·F·B TRADE MARK Incorporated 1904

HOWE & FRENCH

Importers and Dealers

Drugs and Chemicals

Gums, Wax, Alcohols, Colors,

Manufacturing Supplies

99-101 BROAD STREET . BOSTON

W. D. Rockwood, *Treasurer* *Telephone* Main 5910

"The Lost Purple"

CHROME TANNED

TROSTAN CALF

The ideal leather for Officers'
dress boots and high-grade
civilian footwear

Insist upon having this leather in your shoes

Originated and manufactured only by

Albert Trostel & Sons Company

Star and Phoenix Tanneries, Milwaukee, Wisconsin

Tanners of

FINE SIDE VEAL AND CALF SKIN
LEATHERS

TROSTEL LEATHER COMPANY, *Distributors*

BOSTON, ROCHESTER, CINCINNATI, CHICAGO, LONDON, ENGLAND

SMILEY & VAN DYKE, St. Louis, Mo. WAGNER LEATHER CO., San Francisco, Cal.



Machine Tools
25 VARIETIES — NEARLY 100 SIZES

Machinists' Tools
1000 DIFFERENT KINDS

Cutters
45 STYLES, 5000 SIZES

A Catalog Mailed on Request

BROWN & SHARPE MFG. CO.
PROVIDENCE, R. I., U. S. A.

ATHA TOOL CO. A TRADE MARK

Atha "Horseshoe" Brand

Tools carrying this famous Brand have a quality that may well be called the STANDARD for tools of their class. Among the many tools manufactured under this Brand are:

Blacksmiths' Tools; Chisels, Hot and Cold; Handled Hammers; Heavy Hammers; R. R. Track Tools; Stone Cutters' Tools; Wedges; Bars; Coopers' Tools; Mauls; Picks; Sledges; Structural Iron Workers' Tools; Tongs

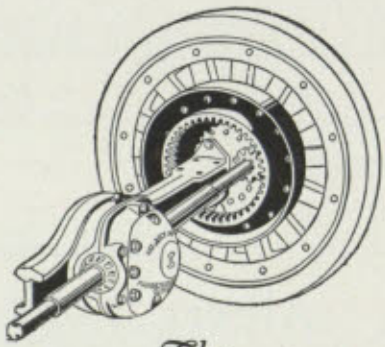
Every Tool Guaranteed

Remember the trade-mark which is your guarantee that quality is the distinguishing feature of all ATHA tools

Made at THE ATHA WORKS *of the*

STANLEY RULE & LEVEL CO.
NEW BRITAIN, CONN. U.S.A.





The
Torbensen Axle Co.
Cleveland, Ohio

Makers of

TORBENSEN INTERNAL GEAR TRUCK DRIVE

Send for Interesting Booklet
"Driving at the Wheel and Near the Rim"

The "Morgue" continues as the barracks of a portion of the National Army.

DU PONT AMERICAN INDUSTRIES

Are Owned and Operated by

E. I. du Pont de Nemours & Co.

And Associated Companies

GENERAL OFFICES

Du Pont Building Wilmington, Delaware

THE PRINCIPAL PRODUCTS ARE:

Explosives for Construction, Mining, Agricultural, Sporting
Military and Demolition Purposes

BLASTING SUPPLIES OF EVERY DESCRIPTION

DU PONT FABRIKOID

A Superior Grade of Leather Substitute for Upholstering of
Furniture, Automobiles, Carriages, Motor Boats and
for Covering Seats of Every Description

SPECIAL GRADES *for* TRAVEL GOODS, BOOK-BINDING, NOVELTIES
COSTUMES, MILITARY CLOTHING, SHOE FINDINGS, ETC.

CHEMICALS, MIXTURES *and* DYESTUFFS

Pyroxylin Preparations and Coal Tar Products of Highest
Quality and Dependability for Use in Laboratory
Hospital and Industrial Work

IVORY PY-RA-LIN *for* TOILETWARE *and* NOVELTIES

Challenge Cleanable Collars for Every Occasion

PAINTS, VARNISH, STAINS, ENAMELS, OIL COLORS
WOOD FILLERS, ACIDS, LITHOPONE
PIGMENTS, ALUMS

STATE WHAT YOUR REQUIREMENTS ARE. WE ARE AT YOUR SERVICE TO HELP YOU SECURE THE MOST EFFICIENT RESULTS. MENTION THIS ADVERTISEMENT WHEN MAKING INQUIRY.

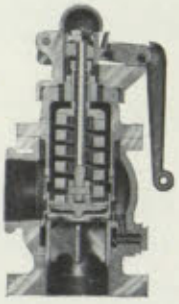
DU PONT

Institute Night Watchman: "Be quiet on your way home tomorrow morning." "Why?" "You may wake me up."

Ashton
Pop Safety Valves

Pressure and Vacuum Cages

Superior in Quality Efficiency and Durability

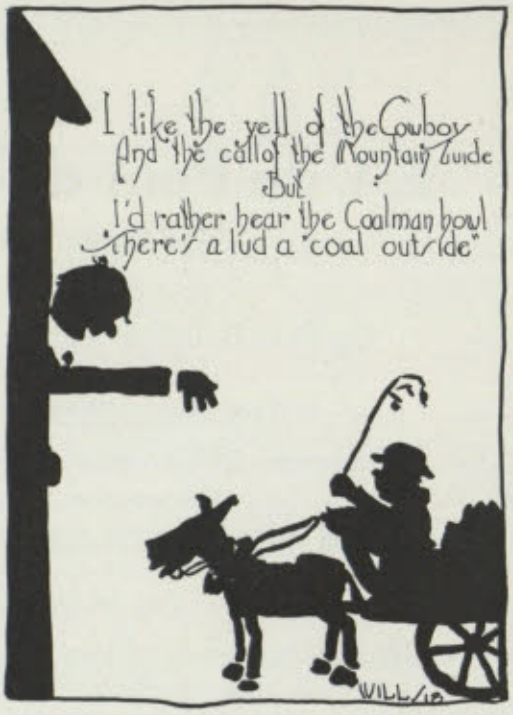


Specially Adapted for High Pressure Superheat Service

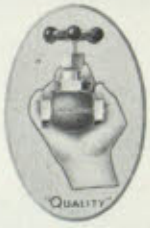
The Ashton Valve Co.

Boston New York Chicago

Factory, 161 First St., Cambridge, Mass.



Safety—Efficiency—and Economy—



LUNKENHEIMER
High-Grade Engineering Appliances

universally acknowledged "the best produced." In them are found that superior standard of design, high quality of materials and workmanship that insures the utmost SAFETY in service. Besides, all Lunkenheimer products are made to gauge, permitting the renewal of any part in case of breakage or wear, at small expense and without loss of time. By this method the greatest EFFICIENCY possible is obtained. Being SAFE and EFFICIENT, their use materially aids in the ECONOMICAL operation of the plant. Careful inspection and rigid testing before and after assembling, enables the broad guarantee on all Lunkenheimer Products.

Bronze Valves
Iron Valves
"Puddled" Semi-steel Valves
Cast Steel Valves
Boiler Mountings
Whistles
Ground Key Work
Lubricators and Lubricating Devices
Oil and Grease Cups
Gas Engine Specialties, Etc.

"Buy the best — they are the cheapest"

Write for descriptive literature

THE LUNKENHEIMER CO.
"QUALITY"

Largest Manufacturers of High Grade Engineering Specialties in the World

New York Chicago CINCINNATI Boston London

Wilson & English Construction Co.

Railroad Contractors

50 Church Street
New York

Telephones: { Back Bay 4500
Brookline 2040

RHODES BROTHERS CO.

Groceries, Provisions and Fish

170 Massachusetts Ave.
Boston, Mass.

10-11 Harvard Square
Brookline, Mass.

If you have use for a TRUCK
you pay for it whether you buy it or not

REPUBLIC TRUCKS

will prove it

REPUBLIC MOTOR TRUCK CO.
OF BOSTON
29-31 Brookline Avenue, Boston, Massachusetts

Pipe Cutting and Threading Machinery

THE COX & SONS CO.

PHILADELPHIA OFFICE
519-520 Lafayette Bldg.

MAIN OFFICE AND WORKS
Bridgeton, N. J.

ARTHUR F. GRAY
Mill Architect and Engineer
53 STATE ST., BOSTON, MASS.
Telephone, Main 3836
Specializes in designs for Textile Mills and Manufacturing Plants

JOHN G. HALL & CO.
114 STATE STREET
BOSTON
Spruce, Lumber, and Piling

Webster Heating System

ESTABLISHED 1888

WEBSTER Heating Systems are adapted to all classes of buildings.
They are used for the circulation and utilization of exhaust steam in manufacturing plants, large buildings or institutions; also in buildings heated by live steam at low pressure.
Heat control is afforded by Modulation supply valves.
WEBSTER Sylphon Traps are generally used at radiator returns and at drip points.
Water-hammer, air-binding, and the use of air valves are eliminated by the use of a WEBSTER System. Perfect circulation of steam is assured.
The New Tech buildings are heated by this system

SEND FOR CATALOGUES

Warren Webster & Co.
Camden, N. J.
WM. G. SNOW, '88, New England Mgr., 24 Milk St., Boston
Branch offices in principal cities

All photographs of this production were taken *by*

Otto Sarony Co.

Photographers

146 Tremont Street
BOSTON, MASS.
Telephone Oxford 110

A naval aviator said he'd lived near water all his life—bathroom adjoining.

Harvey S. Chase & Company

Certified Public Accountants

84 State Street

Boston

AUDITS, INVESTIGATIONS, COST SYSTEMS

Returns for Income Tax and War Taxes

TELEPHONES: MAIN 3660 *and* 3917

The Tech Tailors

MILITARY OUTFITTERS

Army and Naval Uniforms made to order. We also do cleaning, pressing, and repairing.

Open evenings until 9.30 *Tel. Camb. 6574-W*

80 MASSACHUSETTS AVENUE

Tech Block

AUTOMOBILE SERVICE

Our plant is within five minutes' walk of "Tech" offices. It is up-to-date. It is thorough. We are competent on cars of all makes. We have been in this business seven years

We are jobbers of

TIRES

and it has always been our custom to quote

WHOLESALE PRICES

to those connected with

M. I. T.

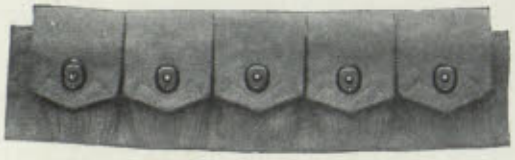
Remember, we are only around the corner, at Kendall Square

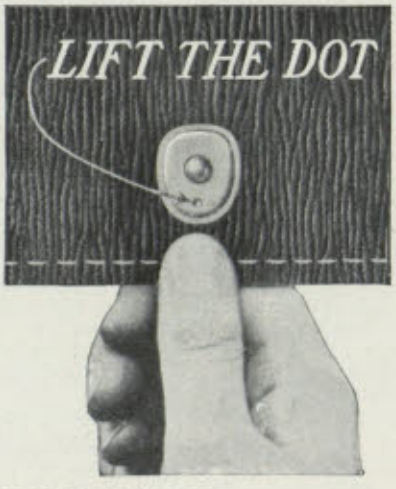
A. W. COX & CO.

Incorporated

15 HAYWARD ST. Tel. Camb. 3140 CAMBRIDGE

Watch for "LIFT THE DOT" Fasteners





They are in use on several pieces of standard military equipment

"LIFT THE DOT" FASTENERS

snap together and lock securely on three sides.

To unlock LIFT DOTTED SIDE of socket as shown in the cut at the right

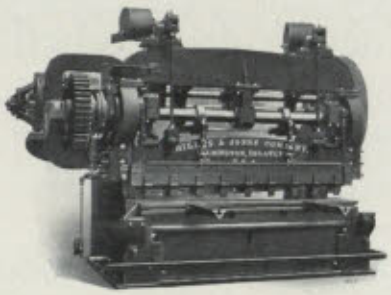
Manufactured by

CARR FASTENER COMPANY

31 AMES ST., CAMBRIDGE, MASS., U. S. A.

INTERNATIONAL FASTENERS LTD., Leicester, England

The Thirteenth Commandment: "Six days shalt thou labor and do thy work; and on the seventh do back-work."



Makers of Machine Tools *for* Working Plates, Bars *and* Structural Shapes

Established 1854

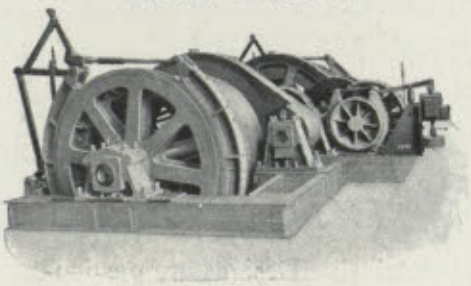
Hilles & Jones Company
WILMINGTON, DELAWARE
Pittsburgh Office: 235 Oliver Building

THE MANHATTAN RUBBER MFG. CO.
PASSAIC, N. J.

Mechanical Rubber Goods, Belting, Hose, Packing, Engineers' and Laboratory Supplies

BRANCHES IN ALL PRINCIPAL CITIES

Lidgerwood Hoists
Steam—Electric



for
Mine Haulage
Contractors
More Than 39,000 Hoists Built and Used
Cableways Excavators
Logging Machinery

LIDGERWOOD MANUFACTURING COMPANY
96 Liberty Street, New York



WALTON'S
LUNCH COMPANY

531 BOYLSTON STREET
332 MASSACHUSETTS AVE.
7 SCHOOL STREET
44 SUMMER STREET
242 TREMONT STREET
42 FEDERAL STREET
1083 WASHINGTON STREET
424 TREMONT STREET
30 HAYMARKET SQUARE
629 WASHINGTON STREET
139 CONGRESS STREET
8-9 TREMONT ROW
TECH BLOCK, CAMBRIDGE
1215 COMMONWEALTH AVE., ALLSTON

Bakery
616 WATERFORD STREET

Supply Kitchen
35-37 ALBION STREET

Office: 1083 Washington Street, Boston

Koerner & Mitchell
Men's Fine Tailoring

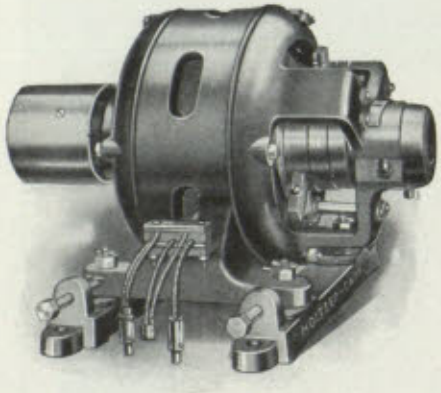
The most carefully chosen line of Woolen and Worsted Suitings for Men's wear we have ever shown now awaits your inspection
An early call is respectfully solicited

78 Essex Street Boston

GOOD TAILORING LOW PRICES

SPECIAL FOR STUDENTS
Monthly Pressing $1.00. Single Suit $.30. Suits Naptha Cleaned $.90
We call and deliver
FRENCH TAILORING
60 Westland Ave.

HOLTZER-CABOT MOTORS
ARE NOT ORDINARY MOTORS



THEY HAVE
INDIVIDUALITY

Our Exclusive Designs are particularly adapted to those applications involving special operating characteristics.

THE HOLTZER-CABOT ELECTRIC CO.
BOSTON CHICAGO NEW YORK BALTIMORE

Why is it called the Charles River Basin? Because it looks so much like dishwater.

S. EUGENE PROCTOR CO., INC.

Dealers in

HARDWARE & TOOLS

Machinists' and Manufacturers' Supplies
Students' Supplies

158 STATE STREET
Opp. Custom House

Telephones
2870 } RICHMOND
2871 }

BOSTON, MASS.

The TECH CLEANSERS
M. POLISNER, Prop.

Tailors *Pressers*
Repairers *Alterers*
Launderers

Near M. I. T. Dormitories

6 AMES ST., Cambridge, Mass.



1ST STUDE: "I'd propose to that girl in a minute if I thought she really wanted me."

2ND STUDE: "If she really wants you, you'll propose to her all right."

New England Structural Co.

Industrial Engineers and Contractors

Specialists in the Complete Design and Construction of Manufacturing, Power, and Factory Plants

Structural Steel Work in all its Branches

Boston and Everett · Massachusetts

The Best Individual Portraits *The Best Groups*

Notman Photographic Company

Official Photographers for M. I. T.

Special rates given to all Tech men
All work guaranteed satisfactory

3 Park Street
BOSTON

1286 Massachusetts Ave.
CAMBRIDGE



HOWARD-WESSON COMPANY

WORCESTER, MASSACHUSETTS

College Engravers of New England

Unexcelled engravings for Class Books
and other College Publications

Index to Advertisers

	PAGE
American Cork Co., Inc.	452
American Dyewood Co. Dyewood Extracts, Aniline Colors	447
Ashton Valve Co. Safety Valves, Pressure Cages	456
Atlas Portland Cement Co.	449
Bemis Bros. Bag Co. Cloth and Paper Sacks	437
Bigelow, Kennard & Co., Inc. Jewelry	448
Blackinton, F. H. Optician	446
Boit, Robert A., & Co. Insurance	444
Brigham, C., Co. Milk	430
Brooks Bros. Clothiers	440
Brown & Sharpe Mfg. Co. Machine Tools	454
Burton-Furber Coal Co.	429
Café de Paris. Restaurant	444
Carr Fastener Co.	460
Chase, Harvey S., & Co. Accountants	460
Chauncy Hall School. Preparatory School for Institute	435
Clinton Wire Cloth Co. Manufacturers Wire Cloth	445
Coburn, Howard L. Chief Engineer Ambursen Const. Co., Inc.	446
Cooper, Charles, & Co. Manufacturers of Chemicals	434
Cox & Sons Co. Pipe Cutting Machinery	459
Cox, A. W., & Co. Automobile Service	460
Ditson, Oliver, Co. Musical Instruments	429
du Pont Powder Co. Explosives	455
Electro-Sun Blue Print & Paper Co.	437
Eustis, J. P., Mfg. Co. Sanitary Bathroom Accessories	432
Fay, Spofford, & Thorndike. Consulting Engineers	446
French Tailoring Co.	462
Gray, A. F. Mill Architect and Engineer	459
Gray, Peter, & Sons, Inc. Laboratory Apparatus	434
Hall, John G., & Co. Spruce Lumber and Piling	459
Hewins & Hollis. Men's Furnishing Goods	435
Hilles & Jones Co. Manufacturers Machine Tools	461
Holtzer-Cabot Electric Co. Electric Motors	462
Horsman, E. I., Co. Tennis Rackets	439
Hotel Lenox	447
Hotel Somerset	433
Howard-Wesson Co. Engravers	465
Howe & French. Dealers Drugs, Chemicals	452
Jenkins Bros. Valves	435
Johnson, Charles H. Insurance	444
Jones & Lamson Machine Co. Lathes	428
Kabatznick, B. Pictures, Frames	444
Knott, L. E., Apparatus Co. Laboratory Apparatus	437
Koerner & Mitchell. Tailoring	462

Index to Advertisers

Continued

	PAGE
Lidgerwood Manufacturing Co. Hoists	461
Little, Arthur D., Inc. Chemists, Engineers	452
Livermore, Homer F. Metals	449
Lunkenheimer Co. Valves	456
Macullar Parker Co. Clothing	442
Main, Charles T. Engineer	437
Manhatten Rubber Mfg. Co.	461
Manning, Joseph P., Co. Tobacco	439
Massachusetts Institute of Technology	436
Miles, George W. Chemist	449
National Aniline & Chemical Co., Inc. Aniline Colors	434
New England Structural Co. Industrial Engineers and Contractors	463
Norton Co. Grinding Wheels	438
Notman Photographic Co. Photographers	464
Old Colony Trust Co.	427
Pfister & Vogel Leather Co. Tanners	443
Proctor, S. Eugene, Co., Inc. Hardware	463
Read & White. Tailors	442
Reed's, Jacob, Sons. Clothing	441
Republic Motor Truck Co., Inc. Manufacturers Trucks	450, 451
Republic Motor Truck Co. of Boston. Trucks	458
Rhodes Brothers Co. Grocers	458
Riverbank Court Hotel	449
Ruehle, E. G., & Co. Drawing Instruments	452
Saco-Lowell Shops. Textile Machinery	432
Samson Cordage Works	432
Sarony, Otto. Photographer	459
Shea & Donnelly Co. Indiana Limestone	430
Shuman, A., & Co. Clothing	441
Smith, Patterson Co. Jewelers	448
Spaulding-Moss Co. Blueprints	449
Stanley Rule & Level Co. Tools	429, 454
State Street Trust Co.	438
Stone & Webster. Engineers	446
Subway Haberdasher. Clothing	441
Tavern Lunch Co.	443
Tech Cleansers. Tailors	463
Tech Tailors. Military Outfitters	460
Technology Branch, Harvard Coöp.	443
Todd, Thomas, Co. Printers	444
Torbensen Axle Co. Internal Gear Truck Drive	454
Trostel, Albert, & Sons Co. Tanners	453
Walton's Lunch Co.	462
Ward's. Stationery	447
Warren Webster & Co. Heating Systems	459
Wilson & English Const. Co. Railroad Contractors	457
Wing, Mitchell, & Co. Laundry Supplies	437
Whipple, J. R., Co. Hotels	433
Yale & Towne. Hardware	431

CONTENTS

PAGE

ACKNOWLEDGMENTS 389

ADMINISTRATIVE OFFICERS 13

ALUMNI 351

ATHLETICS 179
- Advisory Council 182
- Athletics at Technology 181
- Award of Insignia 388
- Baseball 211
- Class Meets 208
- Crew Season 204
- Cross-Country Season 193
- Field Day 213
- Football 218
- M. I. T. A. A. 183
- Records 192
- Relay Season 198
- Relay Teams 220
- Swimming Season 200
- Tennis Season 206
- Track Season 185
- Tug-o'-War 222
- Wearers of the T 184
- Wrestling Team 203

CADET CORPS 62, 348

THE CLASSES 73
- Class Officers, 1918 75
- Class Officers, 1919 78
- Class Officers, 1920 88
- Class Officers, 1921 89
- Class Picture, 1919 80
- Members of Class of 1919 80

CLUBS 277
- Catholic Club 287
- Chess Club 291
- Chinese Club 286
- Cleofan 282
- Cosmopolitan Club 283
- Latin-American Club 284
- Menorah Society 290
- Rifle Club 288
- Theta Tau 280
- Vectors 278
- Walker Club 279

Contents

Continued

	PAGE
DEDICATION	5
DIRECTORY OF STUDENTS	390
FACTS (Award of Insignia)	388
FACULTY	14
Architecture and Architectural Engineering	17
Biology	20
Chemistry and Chemical Engineering	18
Civil and Sanitary Engineering	14
Drawing and Descriptive Geometry	25
Economics	27
Electrical Engineering	21
English	29
Geology	23
History and Political Science	30
Mathematics	26
Mechanical Engineering, Applied Mechanics, and Mechanic Arts	15
Military Science	30
Mining Engineering and Metallurgy	17
Modern Languages	28
Naval Architecture and Marine Engineering	24
Physical Training	30
Physics and Electro-Chemistry	22
Research	34
Special Lectures	33
U. S. Army School of Military Aëronautics	31
U. S. Naval Aviation Detachment	32
FIELD DAY	213
Football Teams	218
Relay Teams	220
Tug-o'-War Teams	222
FORMER EDITORS OF TECHNIQUE	322
FRATERNITIES	225
Alpha Tau Omega	254
Beta Theta Pi	262
Chi Phi	234
Delta Kappa Epsilon	236
Delta Psi	232
Delta Tau Delta	244
Delta Upsilon	240
Inter-Fraternity Council	266
Kappa Sigma	264
Lambda Chi Alpha	260
Lambda Phi	258
Other Fraternities Represented	267
Phi Beta Epsilon	238
Phi Gamma Delta	246
Phi Kappa Sigma	252
Phi Sigma Kappa	248
Sigma Alpha Epsilon	242
Sigma Chi	228
Theta Chi	250
Theta Delta Chi	256
Theta Xi	230
GENERAL INFORMATION	387

Contents

Continued

PAGE

GRINDS 257

HONORARY SOCIETIES 269
- Osiris 270
- The Beaver 271
- Masque 272
- Pi Delta Epsilon 273
- $K_\Sigma S$ 274

INDEX TO ADVERTISERS. Advertising Section 466

IN MEMORIAM 7, 35

INSTITUTE YEAR 37
- Advanced Battalion 64
- Alumni 71
- Cadet Corps, M. I. T. 62
- Cadet School for Ensigns 42
- Camp Cunningham 48
- Commencement, 1917 45
- Concentrated Undergraduate Courses 67
- Course VI–A 44
- Deck Officers' Schools 45
- Enlistment in Engineer Reserve 67
- Engineer Corps, M. I. T. 41
- Harvard Coöperation and the McKay Bequest 65
- Joint Committee on National Service 39
- Marine Engineers' Schools 57
- Naval Architecture Intensive Course 40
- President's House 61
- Radio Engineering Course 70
- Registration, Fall 62
- Registration, Spring 69
- Research 70
- Reserve Officers' Training Corps 63
- Senior Battalion 46
- Technology Club in Paris 57
- Technology Unit in France 56, 355
- U. S. Army School of Military Aëronautics, Flight Officers 43
- U. S. Army School of Military Aëronautics, Ground Officers 68
- U. S. Navy Aviation Detachment, Flight Officers 58
- U. S. Navy Aviation Detachment, Inspectors 64
- Walker Memorial 59

INSTITUTE ORGANIZATIONS 347
- Alumni 351
- Cadet Corps 348
- Dormitory Committee 354
- Society of Arts 350
- Technique Electoral Committee, 1919, 1920 349
- Technology Christian Association 352

JUNIOR WEEK 325
- Junior Prom 328
- Orchestra, M. I. T. 337
- Technique Rush 326
- Tech Show, 1918 329
- Tech Show Management 334
- Tech Show Cast 335
- Tech Show Chorus and Ballet 336

Contents

Continued

PAGE

MUSICAL CLUBS 339
- Combined Musical Clubs 340
- Banjo Club 345
- Glee Club 342
- Mandolin Club 344

OFFICERS OF THE INSTITUTE 11
- Administrative Officers 13
- Faculty 14
- Special Lecturers 33
- Research 34

PAST OFFICERS OF THE CLASS OF 1919 79

PROFESSIONAL SOCIETIES 293
- Aëro 306
- Architectural 298
- Chemical 302
- Civil Engineering 294
- Corporation XV 305
- Electrical Engineering 300
- Mechanical Engineering 296
- Naval Architectural 299

PUBLICATIONS 315
- Technology Monthly 318
- Technology Review 323
- Technique 320
- The Tech 316

ROLL OF HONOR 8

STUDENT ACTIVITIES 309
- Institute Committee 311
- Institute Organizations 347
- Junior Week 325
- Musical Clubs 339
- Publications 315

TECHNIQUE BOARD 320

TECH SHOW 329

WEARERS OF INSTITUTE INSIGNIA 86

WEARERS OF THE NUMERALS 84

WEARERS OF THE T 184