

TECHNIQUE

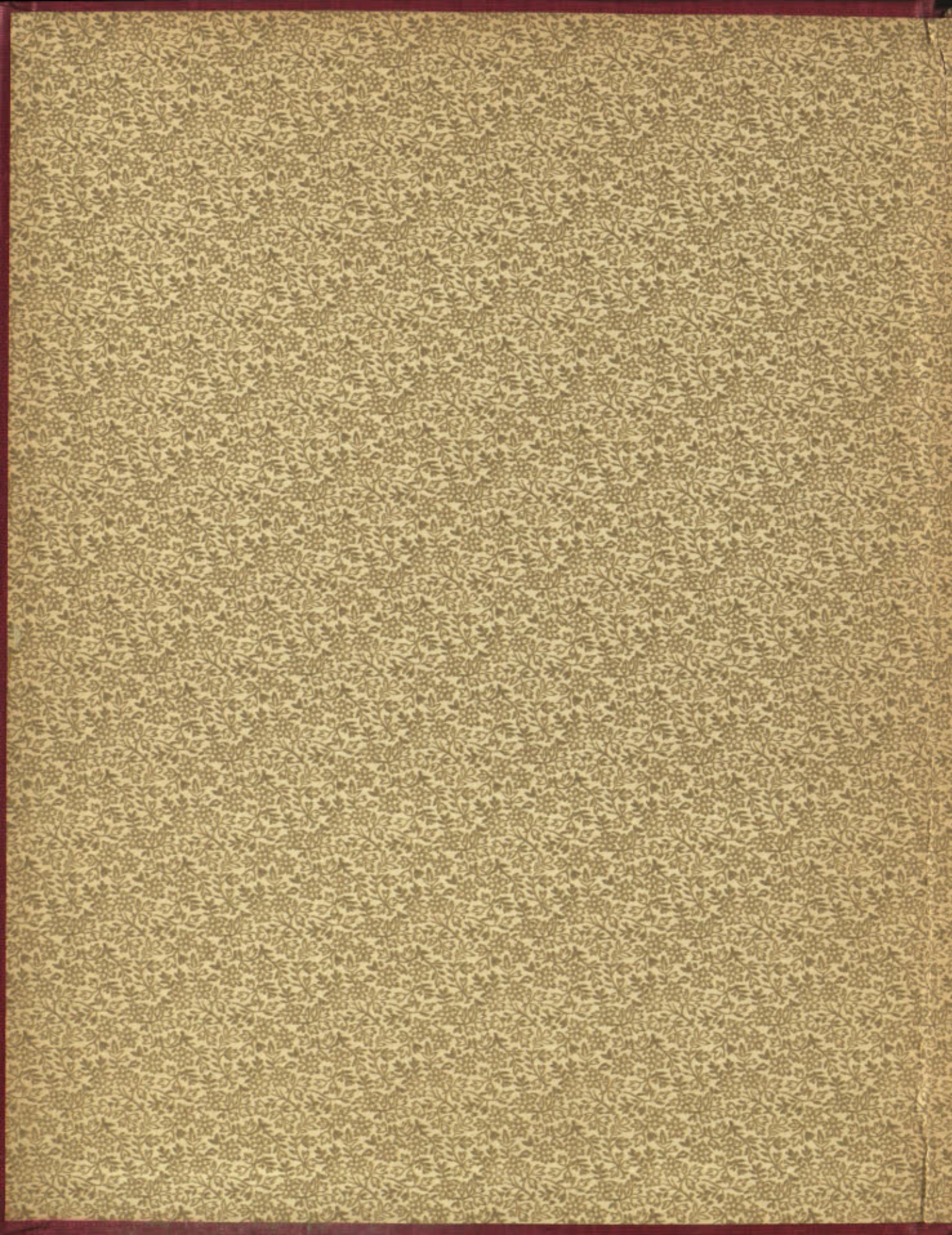
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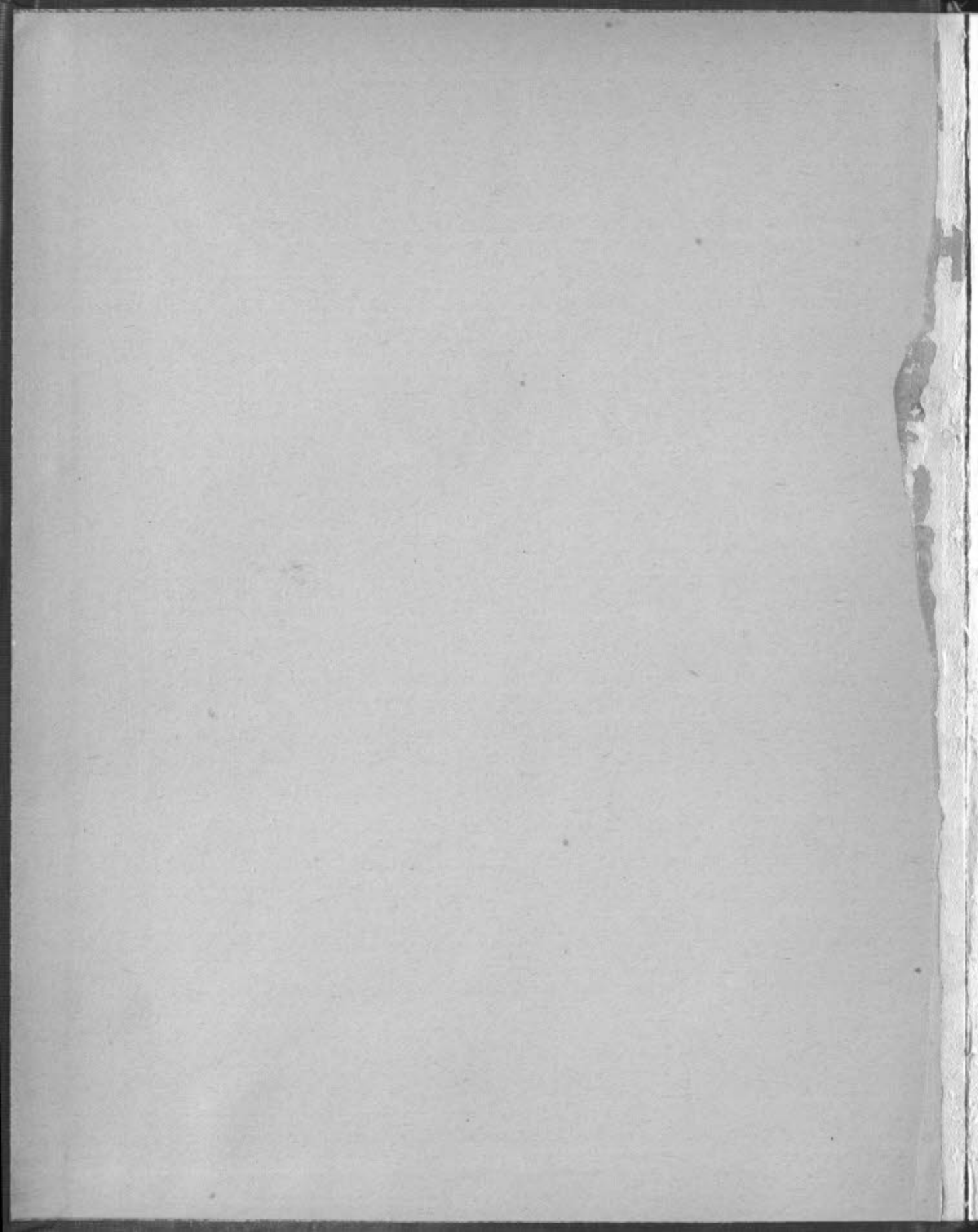
TECHNOLOGY

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VOLUME XV.

TECHNIQUE

• MCM •

PUBLISHED BY THE
JUNIOR CLASS
OF THE
MASSACHUSETTS INSTITUTE
OF TECHNOLOGY

NINETEEN HUNDRED

W.C. APPLETON

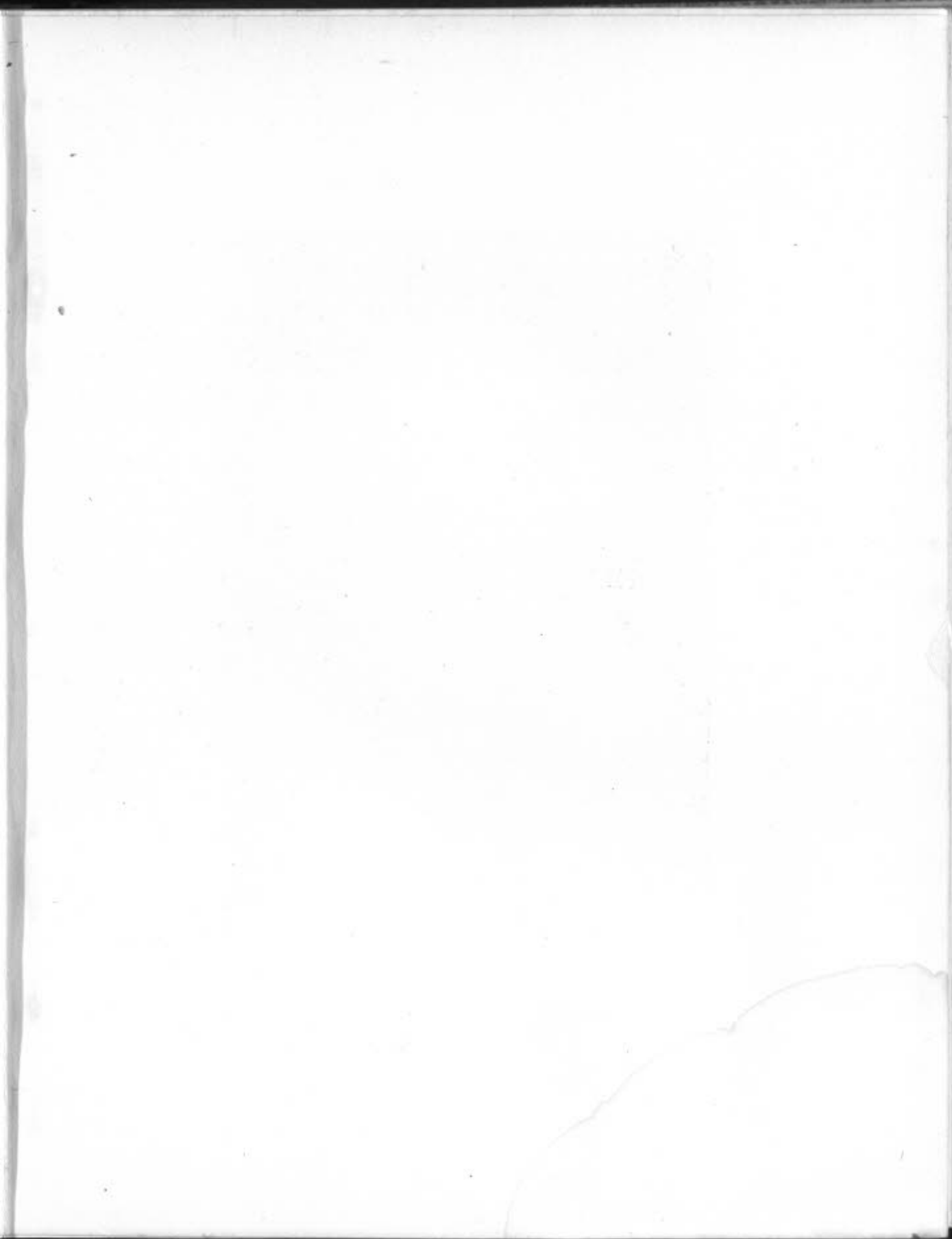
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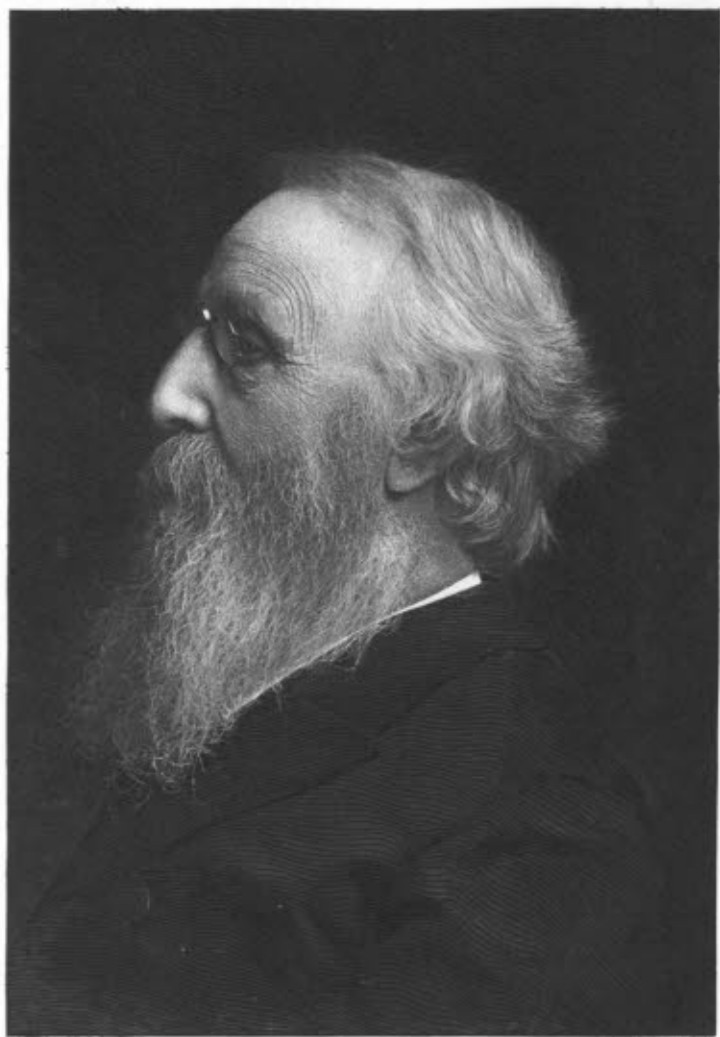
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John D. Runkle.

THOUGH SLIGHT IN FACT THE GIFT WE BRING,
OUR WISHES

MAKE IT GREAT:

'TIS FROM THE THOUGHT,

AND NOT THE THING,

TRUE HONOR HAS ITS WEIGHT.

AND IN THIS PRODUCT OF OUR PEN,

WE GIVE

ALL IN OUR POWERS,

AND FEEL

IF 'TIS ACCEPTED, THEN

THE HONOR STILL IS OURS.

TO

ONE WHOSE WORK

NO TIME WILL DIM,

WHOSE WORTH

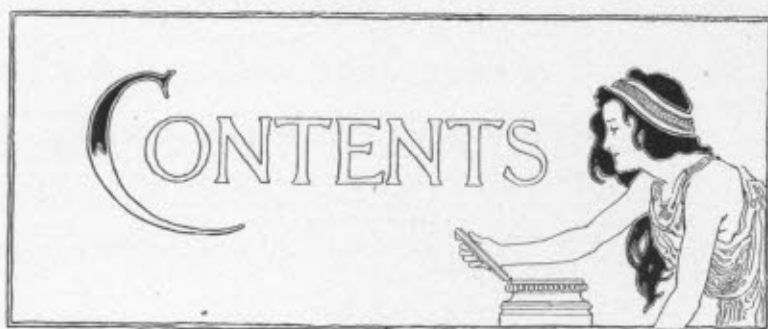
NO WORDS CAN STATE,

JOHN DANIEL RUNKLE,

'TIS TO HIM

THIS BOOK WE

DEDICATE. *



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GREETING

WE, of the TECHNIQUE Board, have endeavored to produce in this, the fifteenth volume, a book of interest essentially to Technology men, past and present; a book of which the Junior Class of Nineteen Hundred and One should be proud; and one which should be worthy to hold its unique position as the final issue of the TECHNIQUE of the Nineteenth Century.

Early in the year our work was interrupted by the withdrawal from the Institute of two of our members, whose assistance and encouragement since then have been of inestimable value to the Board.

To those who have contributed material for this publication, and to those from whom we have received assistance, we express our thanks and appreciation.

How well we have succeeded in our work, indulgent readers, it is for you to judge. Conscious that our best is none too good, and with the hope that this book may meet your expectations, we lay before you the Technology Annual, the TECHNIQUE of the Class of Nineteen Hundred and One.



"Long is the way, and hard."

APRIL, 1899.

1. Chicago Club's Annual Dinner, Castle Square Hotel.
4. The Institute up to date; sixteen new clocks provided.
14. 1901 Technique Electoral Committee elected.
17. Spring vacation; three days.
24. Opening of Junior Week.
- Reception at Technology Club.
- Junior Promenade, Copley Hall.
- Reception by Die Gesellschaft, Pierce Building.
25. Concert and Dance of the Musical Clubs in Paul Revere Hall.
26. Technology Theatricals, under the management of the Walker Club.
27. *TECHNIQUE*, Volume XIV., issued—one day late.
28. Annual election of the Architectural Society.
29. Walker Club play repeated at Northampton, Mass.
- Technology wins from Brown in Dual Meet at Providence, R. I.; St points to 54.

MAY.

1. Opening of the Members' Tournament of M. I. T. Tennis Association.
2. Annual Election of officers of the Mining Engineering Society.
4. Nineteen Hundred and One men miss the familiar voice of Vermyle.
5. Annual Outdoor Class Games, Holmes Field. Championship won by Nineteen Hundred and One.
6. Nineteen Hundred wins the Interclass Rifle Match at Walnut Hill.
8. Public Rehearsal of the Minstrel Show.
10. Y. M. C. A. Communication regarding the desecration of the Sabbath. Tech. disgraced.
12. Minstrel Show at Hollis Street Theatre. Matinée.
- Dinner of the M. I. T. Yacht Club, Hotel Savoy.
13. Sophomore-Freshman Baseball Game, Charles River Park. Won by Nineteen Hundred and One; 6-4.
19. Annual Dinner of the Walker Club, Young's Hotel.
20. Thirteenth Annual Meet of the N. E. I. A. A., at Worcester, Mass.
22. Annual Examinations begin.
23. John T. Scully elected Editor in Chief, Nineteen Hundred and One *TECHNIQUE*.
24. Charlie Cross dismisses Physics Lecture fifteen minutes early.
26. The Trophy Room's Birthday.

JUNE.

2. Reception to Class of Ninety-Nine by Technology Alumni Association, Exchange Club.
3. Concert given by the Musical Clubs to the Class of Ninety-Nine in Huntington Hall.
4. Baccalaureate Sermon by the Rev. Dr. Donald, Trinity Church.
5. Ninety-Nine Class Day Exercises, Huntington Hall.
6. Last Undergraduate Meeting of the Class of Ninety-Nine.
- Graduation Exercises, Huntington Hall.
7. Summer School of Metallurgy leaves Boston.

JULY.

5. Summer Cruise of the M. I. T. Yacht Club.

SEPTEMBER.

19. Second Entrance Examinations begin.
27. The Thirty-fourth Year of the Institute opens.
- President Crafts addresses the Freshmen.
30. Y. M. C. A. Reception to the Freshman Class in Rogers Library.

OCTOBER.

4. Freshmen hold their First Class Meeting.
9. Open Fall Tournament of the M. I. T. Tennis Association begins.
13. Professor Barton disturbs the Sunday peace of the First Baptist Church of North Adams.
14. H. O. Bosworth elected President of Class of Nineteen Hundred and Two.
14. Vacation in honor of the Dewey Celebration.
17. Meeting of Graduate Class Secretaries, Technology Club.
20. V. F. Holmes elected President of Class of Nineteen Hundred and One.
21. Fall Handicap Meet, Holmes Field. Won by Nineteen Hundred and One.
25. Charlie Cross springs his "Trolley Car" Joke in Industrial Electricity.
25. Professor Lanza's Receptions to the Students in Courses II. and IV.

NOVEMBER.

2. Annual Meeting and Election of Officers of the M. I. T. Yacht Club.
3. Architectural Society's Dinner, at Mienssets.
3. This day the Secretary dispels sweet music from the front of Rogers.
3. Annual election of officers of the Andover Club.
4. C. M. Leonard elected President of the Class of Nineteen Hundred.
4. R. M. Field elected President of the Class of Nineteen Hundred and Three.
7. Annual Business Meeting of the Hare and Hounds Club.
10. Clifford, Allen, and Passano receive congratulations upon recent additions to their respective families.
13. Electrical Engineering Society holds a Smoke Talk at the Technology Club.
16. Organization of the Technology Hockey Club.
17. Cane Rush and Football Game. Nineteen Hundred and Three vs. Nineteen Hundred and Two.
17. Game and Rush Won by Nineteen Hundred and Two; 39-0; 20-17.
29. Lieutenant Hamilton is locked in his Drill Hall by insubordinate Freshman.
30. Thanksgiving Vacation until December 2.

DECEMBER.

4. Nothing in particular happened on this day.
8. Smoke Talk of the Architectural Society at the Technology Club.
14. The "Lounger" shows signs of increasing brilliancy.
14. Senior Class Dinner, Hotel Thorndike. Toastmaster, Charles Van Merrick.
15. (Followed on the 16th by an eclipse of the moon.)
16. The Tech. Lunch, Old Elm.
18. Annual Banquet of the Andover Club, United States Hotel.
20. Midwinter Concert of the Musical Clubs, Huntington Hall.
22. Annual Indoor Class Games. Won by Nineteen Hundred.
23. First Alumni Dinner of the Class of Ninety-Nine, Hotel Savoy.
- 25-27. Christmas Vacation.
29. Annual Banquet of the M. I. T. Alumni Association, Exchange Club.
30. Graduate Dinner of the Class of Ninety-Eight, Hotel Vendome.

JANUARY, 1900.

2. President Crafts announces his resignation, to take effect at the close of the school year, 1899-1900.
10. Professor Bartlett is seen to smile.
16. Semi-Annual Examinations begin.

FEBRUARY.

6. Second Term begins.
14. Corporal Bailey Attends Nineteen Hundred and One Class Meeting.
14. Nineteen Hundred and One Promenade Committee elected.
16. Junior Class Picture taken.
17. Sherwood Club Dinner, Gould's.
17. Hammer and Tongs, Hotel Savoy.
21. Architectural Society Dance, Pierce Building.
24. Organization of the New England Intercollegiate Tennis Association. E. D. Thatcher elected President.

MARCH.

2. Annual Meeting of the M. I. T. Tennis Association.
7. Election of Nineteen Hundred Nominating Committee.
9. Nineteen Hundred and Two Class Dinner, Hotel Vendome. Toastmaster, W. H. Simpson.
15. Nineteen Hundred and One Class Dinner, Hotel Thorndike. Toastmaster, Ralph Plumb.
16. Freshman Dinner, Young's Hotel. Toastmaster, M. Y. Ferris.
28. Election of Nineteen Hundred Class Day Officers and Class Day Committee.
29. Yacht Club Smoke Talk, Old Elm.
30. Third Annual Dinner of the Civil Engineering Society, United States Hotel.

APRIL.

3. Dress Rehearsal of the Tech. Show.
4. In Memoriam. Silas W. Holman.
6. Tech. Show, Hollis Street Theatre. Matinée.
- 10-21. Spring Vacation.
23. Opening of Junior Week.
24. Annual Spring Concert and Dance of the Musical Clubs, Paul Revere Hall.
25. Technology Theatricals, under the management of the Walker Club, Copley Hall.
25. Technique, Volume XV., issued.
26. Technology Club Reception, Junior Promenade, Pierce Hall.
27. Tech Tea, Office of the Tech.



THE MEMBERS OF THE CORPORATION

"Money, money, money! Bad, — but oh, so good!"

President.

JAMES M. CRAFTS.

Secretary.

FRANCIS H. WILLIAMS.

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HON. OLIVER W. HOLMES, *Chief Justice of the Supreme Court.*

HON. FRANK A. HILL, *Secretary of the Board of Education.*



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*"In all things good,
And for administration,
Marvelous, marvelous!"*

President.

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Treasurer.

GEORGE WIGGLESWORTH.

Secretary.

HARRY W. TYLER.

Librarian.

ROBERT P. BIGELOW.

Bursar.

ALBERT M. KNIGHT.



"Keep but the model safe, new men will rise to study it."



J. M. Crafts

President.

JAMES M. CRAFTS, S.B., LL.D., *President.*
Harvard S. S., '58.

Professor of Chemistry, Cornell, 1868-70; Professor of Chemistry, Massachusetts Institute of Technology, 1870-80 (non-resident, 1874-80); Member National Academy of Sciences, 1872; returned from Europe and became a member of the Corporation, 1890; Professor of Organic Chemistry, 1892; appointed President, 1897.

Corresponding member of the British Association for the Advancement of Science.

Author of a short course in Qualitative Analysis, and of a series of papers on Chemical and Physical subjects published chiefly in the Comptes Rendus of the French Academy of Sciences—many of the papers in collaboration with C. Friedel.

Residence, 59 Marlboro' Street.

PROFE



SSORS

"The hoary head is a crown of glory."



John D. Runkle

JOHN D. RUNKLE, PH.D., LL.D., *Walker Professor of Mathematics.*

B.S., A.M., Harvard University, '51; PH.D., Hamilton College, '67; LL.D., Wesleyan University, '71.

Assistant upon the American Ephemeris and Nautical Almanac, 1849-54; Editor Mathematical Monthly, 1858-61; Professor of Mathematics, Massachusetts Institute of Technology, from 1865; Acting President, 1868-70; President, 1870-78.

Author of New Tables for Determining the Values of the Co-efficients in the Perturbative Function of Planetary Motion, the Manual Element in Education (published in Report of Massachusetts Board of Education, 1876-77), a second Paper on same subject in Report of 1880-81, Report on Industrial Education, American Institute of Education (1883), Analytic Geometry, etc.

Residence, 1663 Massachusetts Avenue, Cambridge.



Geo A Osborne

GEORGE A. OSBORNE, S.B., *Professor of Mathematics.*
Harvard S. S., '60.

Assistant Professor of Mathematics, U. S. Naval Academy, 1861-65; Professor of Mathematics, Massachusetts Institute of Technology, from 1866; Secretary of Faculty, 1868-71.

Author of Examples in Differential Equations (1886), Differential and Integral Calculus (1891), etc.

Residence, 249 Berkeley Street.



Robert H. Richards

ROBERT H. RICHARDS, S.B., *Professor of Mining Engineering and Metallurgy.*

M. I. T., '68, III.

Assistant in Chemistry, Massachusetts Institute of Technology, 1868-69; Instructor in Assaying and Qualitative Analysis, 1869-70; Assistant Professor of Analytical Chemistry, 1870-71; Professor of Mineralogy and Assaying, in charge of the Mining and Metallurgical Laboratories, 1871-72; Professor of Mining Engineering, 1873-84; Secretary of the Faculty, 1878-83; Professor of Mining Engineering and Metallurgy from 1884; President of M. I. T. Alumni Association, 1873-76; President of the American Institute of Mining Engineers, 1886-87.

Residence, 32 Eliot Street, Jamaica Plain.



Wm. H. Niles

WILLIAM H. NILES, PH.B., A.M., *Professor of Geology and Geography.*

S.B., Harvard L. S., '66.

Ph.B., Yale, S. S., '67; A.M., Wesleyan, '69.

Professor of Physical Geography, Massachusetts Institute of Technology, 1871; Professor of Geology and Geography, Massachusetts Institute of Technology from 1878; Lecturer on Geology, Wellesley College, 1882; Professor of Geology, Wellesley College, 1888; President of the Boston Society of Natural History, 1892-97; President of the Appalachian Mountain Club, 1898.

Author of *Agency of Glaciers in the Excavation of Valleys and Lake Basins*, *Zones of Physical Features of Mountains*, *Some Expansions, Movements, and Fractures of Rocks*, observed at Monson, Mass. *The Causes of the Recent Floods in Germany* (1887), etc.

Residence, 10 Linden Street, Cambridge.



Chas. R. Cross

CHARLES R. CROSS, S.B., *Thayer Professor of Physics and Director of the Rogers Laboratory.*

M. I. T., '70, Sci. and Lit. Course.

Instructor in Physics, Massachusetts Institute of Technology, 1870-71; Assistant Professor of Physics, 1871-75; Professor of Physics from 1875; in charge of Department of Physics from 1877; in charge of Course in Electrical Engineering since its establishment in 1882.

Author of many original scientific papers on electricity, acoustics, and other branches of physics, published chiefly in the *Proceedings of the American Academy of Arts and Sciences*.

Residence, Upland Road, Brookline.



Gaetano Lanza

GAETANO LANZA, C.E., *Professor of Theoretical and Applied Mechanics.*

University of Virginia, '70.

Instructor, Massachusetts Institute of Technology, 1871-72; Assistant Professor, 1872-75; Professor of Theoretical and Applied Mechanics from 1875.

Author of Applied Mechanics (1885), and of many papers in Transactions American Society Mechanical Engineers, Proceedings Society of Arts, Proceedings British Institution of Civil Engineers, Technology Quarterly, etc. Notes on Mechanical Engineering (1886), Notes on Friction (1887).

Residence, 22 West Cedar Street.



George F. Swain

GEORGE F. SWAIN, S.B., M. Am. Soc. C. E., *Hayward Professor of Civil Engineering.*

M. I. T., '77, I.

Student in Germany, 1877-80; Expert on Tenth U. S. Census, 1880-83; Instructor in Civil Engineering, Massachusetts Institute of Technology, 1881-83; Assistant Professor of Civil Engineering, 1883-87; Associate Professor, 1887-88; Professor from 1888; Engineer of Massachusetts Railroad Commissioners from 1887; Member Boston Transit Commission since 1894; ex-President Boston Society of Civil Engineers; ex-President of the Society for the Promotion of Engineering Education.

Author of Report on Water Power of Atlantic Slope, Notes on Hydraulics and on Theory of Structures, numerous reports on Railroad Bridges, Brake Equipment, and other subjects, in the reports of the Massachusetts Railroad Commission, and many papers on Engineering subjects, published in the Transactions of American Society Civil Engineers, Proceedings New England Water Works Association, Technology Quarterly, Proceedings Society Arts, Journal Franklin Institute, Boston Society of Civil Engineers, etc.

Residence, 435 Marlboro' Street.



F. W. Chandler

FRANCIS W. CHANDLER, M. Am. Inst. Arch., *Professor of Architecture.*

With Messrs. Ware & Van Brunt, Architects, 1864-66; Student in Paris, 1866-68; Assistant with Professor Ware at the Massachusetts Institute of Technology, 1869; Assistant Supervising Architect at Washington, 1870-73; in partnership with Mr. E. C. Cabot, of Boston, 1873-88; Professor of Architecture, Massachusetts Institute of Technology, from 1888; Advisory Architect to the Mayor of the City of Boston since 1896.

Author of A Few Hints About Drainage (1888), Construction Details (1892), Notes on Limes, Cements, Mortars and Concretes (1892); editor of Municipal Architecture in Boston (1898), etc.

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William T. Sedgwick

WILLIAM T. SEDGWICK, PH.B., PH.D., *Professor of Biology.*
Yale S. S., '77; Berzelius Society.
Ph.B., Yale, '77; Ph.D., Johns Hopkins, '81.

Assistant Professor of Biology, Massachusetts Institute of Technology, 1883-84, Associate Professor, 1884-91; Professor from 1891.

Author of *General Biology* (1886), New Edition (1895), *Biological Examination of Water* (1888), *Sanitary Condition of the Water Supply of Lowell, Mass.* (1891), *The Purification of Drinking Water by Sand Filtration* (1892), *Modern Scientific Views of the Cause and Prevention of Asiatic Cholera* (1892), numerous Reports to the State Board of Health of Massachusetts on Epidemics of Typhoid Fever Caused by Infected Water, Milk, etc., several papers on Education, various articles in Wood's Reference Handbook of Medical Science, etc.

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Davis R. Dewey

DAVIS R. DEWEY, A.B., PH.D., *Professor of Economics and Statistics.*

University of Vermont, '79; A. Ψ.; Φ. B. K.

A.B., University of Vermont, '79; Ph.D., Johns Hopkins University, '86.

Teacher, Underhill, Vt., 1879-81; Principal Hyde Park High School, Chicago, 1881-83; Student and Fellow at Johns Hopkins University, 1883-86; Instructor, Massachusetts Institute of Technology, 1887-88; Assistant Professor, 1888-89; Associate Professor, 1889-92; Professor from 1892; Secretary American Statistical Association from 1886; editor of its publications from 1887; Appointed, 1894-95, Chairman of Board to Investigate the Subject of the Unemployed in Massachusetts; Member of Publication Committee of American Economic Association, 1895; appointed member of Board to Investigate Charitable and Reformatory Interests and Institutions of Massachusetts, 1896; Member, Department of Statistics, Boston, 1897.

Author of a Syllabus on Political History since 1815 (1887), Syllabus of Lectures on Economic Questions of Commerce (1892), *Suicides in New England*, associated in Report on Unemployed, Graphic Statistics, Report on Charitable Institutions, etc.; editor of "Discussions in Economics and Statistics" by Francis A. Walker, 2 vols., 1899.

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Silas W. Holman

SILAS W. HOLMAN, S.B., *Professor of Physics, Emeritus.*
M. I. T., '76, VIII.

Assistant, Massachusetts Institute of Technology, 1876-80; Instructor, 1880-82; Assistant Professor, 1882-85; Associate Professor, 1885-93; Professor from 1893.

Author of *Physical Laboratory Notes* (1885), *The Effect of Temperature on the Viscosity of Air and Carbon Dioxide* (1886), *Discussion of the Precision of Measurements* (1887), *Friction of Leather Belts on Iron Pulleys*, Standard for the Resistance of Copper (1891), and numerous other papers in Proceedings American Academy, American Journal of Science, Appalachia, Journal of Franklin Institute, Technology Quarterly, etc.

Residence, Hotel Abbotsford, Brookline.



Webster Wells

WEBSTER WELLS, S.B., *Professor of Mathematics.*

M. I. T., '73, I.

Instructor in Mathematics, Massachusetts Institute of Technology, 1873-80, and 1882-83; Assistant Professor of Mathematics, 1883-85; Associate Professor, 1885-93; Professor from 1893.

Author of Academic Arithmetic, Academic Algebra, Higher Algebra, University Algebra, College Algebra, Plane and Solid Geometry, Plane and Spherical Trigonometry, Logarithmic Tables, etc.

Residence, Lexington.



C. H. Peabody

CECIL H. PEABODY, S.B., *Professor of Marine Engineering and Naval Architecture.*

M. I. T., '77, II.

With the Western Union Railroad, 1878; Professor of Mathematics and Engineering, Imperial Agricultural College, Japan, 1878-80; Assistant Professor of Mechanical Engineering, University of Illinois, 1881-83; Instructor, Massachusetts Institute of Technology, 1883-84; Assistant Professor of Steam Engineering, 1884-89; Associate Professor, 1889-93; Professor of Marine Engineering from 1893.

Author of Notes on Governors and Fly Wheels (1885), Notes on Valve Gears (1887), Thermodynamics of the Steam Engine and other Heat Engines (1889), Tables of the Properties of Saturated Steam (1888), Valve Gears for Steam Engines (1890), Steam Boilers (1897, with E. F. Miller), Papers to Scientific Societies, etc.

Residence, 10 Columbia Street, Brookline.



Harry W. Tyler

HARRY W. TYLER, S.B., PH.D., *Professor of Mathematics.*

M. I. T., '84, V.

S.B., M. I. T., '84; PH.D., Erlangen, '89.

Assistant, Massachusetts Institute of Technology, 1884-86; Instructor, 1886-90; Assistant Professor, 1890-92; Associate Professor, 1892-93; Secretary of the Faculty, 1889-90, and from 1891; Professor of Mathematics, 1893.

Author of Entertainments in Chemistry, the Application of Determinant Theorems to a Particular Case, Ueber die Sylvestersche und die Bézoutsche Determinanten, Technological Education in the United States, The Educational Work of Francis A. Walker, etc.

Residence, Gray Cliff Road, Newton Centre.



Arlo Bates

ARLO BATES, LITT.D., *Professor of English.*

Bowdoin, '76; A. A. P.; P. B. K.

Editor of *Broadside*, 1878-79; editor of *Boston Courier*, 1880-93; Correspondent of *Providence Journal*, *Chicago Tribune*, *Book Buyer*, etc., 1880-93; Professor of English, Massachusetts Institute of Technology, from 1893.

Author of *Patty's Perversities*, *The Pagans*, *A Wheel of Fire*, *Berries of the Briar*, *Sonnets in Shadow*, *A Lad's Love*, *The Phillistines*, *Prince Vance*, *Albrecht*, *Book o' Nine Tales*, *The Poet and His Self*, *Told in the Gate*, *In the Bundle of Time*, *The Torch Bearers*, *Talks on Writing English*, *Talks on the Study of Literature*, *The Puritans* and *Under the Beech Tree*.

Residence, 62 Chestnut Street.



Despradelle

D. DESPRADELLE, *Professor of Architectural Design.*

Received first promotion at the *Ecole des Beaux-Arts*, 1882; many of the prizes at the *Ecole des Beaux-Arts* and *Institut de France*; received diplomas from *Ecole des Beaux-Arts* and *Société centrale des Architectes français*; took part in the *Concours de Rome* four times, and received first Second Grand Prix in 1889, Lauréat du Salon, officier d'Académie, Assistant Inspector State Buildings and National Palaces, and under this title helped in the Building of the New Ministry of Agriculture, National Library, the mansion of M. Wilson and M. Grévy (ex-president), and various other public and private edifices.

Residence, 237 Berkeley Street.



Peter Schwamb

PETER SCHWAMB, S.B., *Professor of Mechanism and Director of the Workshops.*

M. I. T., '78, II.

Graduate Student, Massachusetts Institute of Technology, 1878-79; Draughtsman, *Howe Scale Co.*, Rutland, Vt., 1879-80; Draughtsman, *Hinkley Locomotive Co.*, Boston, 1880-83; Instructor, Massachusetts Institute of Technology, 1883-84; Assistant Professor, 1884-88; Associate Professor, 1888-96; Professor of Mechanism, 1897.

Author of *Notes on the Elements of Mechanism* (1885), *Notes on Gearing* (1888), etc.

Residence, 27 Water Street, Arlington.



Frank Allen

C. FRANK ALLEN, S.B., M. Am. Soc. C. E., *Professor of Railroad Engineering.*
M. I. T., '72, I.

Assistant Engineer, Providence Waterworks, 1872-73; Assistant Engineer, Providence Sewerage, 1873-75; Assistant Engineer, Newton Waterworks, 1875-76; Engineer Inspector, Boston Sewerage, 1877; Assistant Engineer, Atchison, Topeka & Santa Fé R. R., 1878-80; Assistant Engineer, Mexican Central R. R., 1880; Chief Engineer, Las Vegas Waterworks, and general engineering, 1880; Assistant Engineer, Atchison, Topeka and Santa Fé R. R., 1881-84; Secretary of the Society for the Promotion of Engineering Education, 1895-97; President of Massachusetts Highway Association, 1898-99; President Boston Society of Civil Engineers, 1899-1900; Vice President of Society for Promotion of Engineering Education, 1898-99; Member of Executive Committee, New England Railroad Club, 1899-1900; Member of Committee of Publication Technology Review, 1899-1900; Assistant Professor Massachusetts Institute of Technology, 1887-89; Associate Professor, 1889-96; Professor from 1896.

Author of *Measurement of the Angular Deflection of Beams Fixed at One End*, *Railroad Curves and Earthwork*, *Tables for Earthwork Computation*, *Railroad Engineering and Economics of Location*, *Roads and Road Building*, *Railroad Building with Reference to Economy in Operating*, articles in *Engineering Record*, *Railroad Gazette*, *Technology Quarterly*, etc.

Residence, Montview Street, West Roxbury, Mass.



Alfred E. Burton

ALFRED E. BURTON, S.B., *Professor of Topographical Engineering.*

Bowdoin, '78; A. K. E.; Φ. B. K.

Land Surveyor, 1878-79; Topographical Draughtsman and Topographer on U. S. Coast and Geodetic Survey, 1879-82; appointed Commissioner on Massachusetts Topographical Survey, 1895; in charge of Scientific Expedition to Umanak, Greenland, summer of 1896; Instructor in Topographical Engineering, Massachusetts Institute of Technology, 1882-84; Assistant Professor, 1884-89; Associate Professor, 1889-96; Professor from 1896.

Residence, 60 West Newton Street.



Dwight Porter

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Yale S. S., '80; Berzelius Society.

Special Agent, Tenth Census U. S., Report upon Water Power, 1880-83; Instructor in Mathematics, Massachusetts Institute of Technology, 1883-85; Instructor in Civil Engineering, 1885-87; Assistant Professor of Civil Engineering, 1887-90; Associate Professor of Hydraulic Engineering, 1890-96; Professor, 1896.

Author of *Flood Discharge from Small Watersheds*, Report upon a Sanitary Inspection of certain Tenement-House Districts of Boston, portions of Vols. XVI. and XVII., Tenth Census, U. S., Reports on Water Power, Water Power Streams of Maine, in Nineteenth Annual Report of the U. S. Geological Survey, Notes on Stereotomy and Warped Surfaces, etc.

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Author of Gold Milling in the Black Hills (1888), The Dry Assay of Tin Ores (1890), Recent Progress in the Treatment of Argentiferous Lead Ores (1892-1900), Metallurgical Lead Exhibits at the Columbian Exposition (1893), Some Experiments on the Fusibility of Fire Clays, (1895), Further Experiments on the Fusibility of Fire Clays (1895); The Equipment of Mining and Metallurgical Laboratories (1896); The Production of Illuminating Gas and Coke in By Product Ovens (1898); Modification of Birchof's Method for determining the Fusibility of Fire Clays (1898); Influence of size of Particles on Resistance of Fire Clays to Heat Extremes (1898); The Temperature at which Certain Ferrous and Calcic Silicates are Formed in Fusion and the Effect upon these Temperatures of the Presence of Certain Metallic Oxides, The Metallurgy of Lead and the Desilverization of Base Bullion (1893-99), etc.

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Author of Ueber das Verhalten der Tiglinsäure und Angelicasäure gegen Bromwasserstoff und Jodwasserstoff (1890), Notes on the Action of Hydrobromic and Hydroiodic Acids on Tiglic and Angelic Acids (1891), An Index to the Literature of Angelic and Tiglic Acids from 1842 to 1892, On the Properties of Hydrogen Peroxide Solutions (with H. R. Moody), An Introductory Course of Quantitative Analysis (1897), and other chemical papers.

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Instructor in English, University of Marburg, 1878-79; Professor of French and English in several colleges, 1879-92, at last, in Hamburg; Associate in Romance Languages, 1893-94, and Associate Professor of Romance Languages, 1894-99, Johns Hopkins University, Baltimore; Professor of Modern Languages, Massachusetts Institute of Technology, since 1899.

Author of some articles upon Egypt and the East; literary and philological studies upon the "Chanson de Roland," Chaucer and Dante, Adam de la Halle; a work upon Parisian pronunciation; educational studies and books for the use of students and teachers; and a great number of articles in American and European philological journals; assistant editor of a linguistic and pedagogic periodical.

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Author of the Great Epics of Mediæval Germany, Translator of Emanuel Geibel's Brunhild, *Deutsche Litteraturdenkmale des 18 Jahrhunderts*, Theories as to the Original Home of the Indo-European Race, Richard Wagner's Ring of the Nibelung Explained, and in part Translated, German Scientific Reader, etc.

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Author of Constitutional and Organic Laws of France, American Editor of Brockhaus's *Konversations-Lexikon*, Contributions to Magazines, etc.

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Author of Geology of Eastern Massachusetts, Geology of the Boston Basin, Common Minerals and Rocks, Guides to Mineralogy and to Dynamical Geology and Petrography, Tables for the Determination of Common Minerals, and numerous papers on the Geology of New England, the Black Hills, Cuba, Trinidad, etc.; and on Joint Structure, Faults, Origin of Continents, Colors of Soils, Concretions, Drift, Ore Deposits, etc., published in Proceedings of the Boston Society of Natural History, American Journal of Science, Geological Magazine, Technology Quarterly, etc.

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Author of Plane and Solid Analytic Geometry (with Professor Woods, 1897).

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Assistant in General and Sanitary Chemistry, Massachusetts Institute of Technology, 1884-86; Instructor, 1887-88; Water Analyst State Board of Health, 1888; Instructor in Gas Analysis, Massachusetts Institute of Technology, 1890-94; Assistant Professor from 1894.

Author of *Beitrag zur Kenntniss des Ortho-dichlor Stilbens* (1890), and various papers relating to Water and Gas Analysis in the *Journal of the American Chemical Society*, *English Analyst*, *Fresenius' Zeitschrift* and *Technology Quarterly*, "Gas and Fuel Analysis for Engineers," a short *Handbook of Oil Analysis*.

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Assistant in Physics and Astronomy at Wesleyan, 1885-86; Teacher in Mathematics in Genesee Seminary, Lima, N. Y., 1886-90; Instructor in Mathematics at the Massachusetts Institute of Technology, 1890-95; Assistant Professor, Massachusetts Institute of Technology, from 1895; 1898-99, Lecturer on Mathematics, Harvard University.

Author of *Ueber Pseudominimalflächen*, 1895; *Plane and Solid Analytic Geometry* (with Professor Bailey, 1897).

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Graduate Student, Massachusetts Institute of Technology, 1890-91; University Fellow, Columbia College, 1891-93; Instructor in Economics, Massachusetts Institute of Technology, 1893-95; Assistant Professor from 1895.

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Yale, '69.

PH.B., '69, C.E., '74, PH.D., '76, Yale.

Instructor in Engineering and Mathematics (and for part of the time in Physics and French), Sheffield Scientific School, Yale, 1873-81; Computer and Draughtsman, Statistical Atlas of Ninth Census, 1873-75; Manager and Treasurer of the American Electric Co., New Britain, 1881-83; Instructor in Mathematics, Massachusetts Institute of Technology, 1885-96; Assistant Professor from 1896.

Author of a book on *Approximate Computations*, and of some papers in scientific journals.

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Assistant in Drawing, 1880-81; Hawaiian Government Survey, 1881-83; Assistant in Mineralogy and Lithology, 1883-88; Instructor in Determinative Mineralogy, 1888-89; Instructor in Geology, 1889-96; Assistant Professor of Geology from 1896.

Author of various papers on geology of Massachusetts, Hawaii, Labrador, and Greenland, published in *Proceedings of Boston Society of Natural History*, *American Journal of Science*, *American Geologist*, *Science*, *Technology Quarterly*, etc.

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Author of several articles in Technology Quarterly, An Elementary Treatise on Plane Surveying and Navigation.

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Author of Elements of Shades and Shadows, Principles of Perspective.

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Assistant in Physics, 1889-91; Instructor in Physics, 1891-93; Instructor in Electrical Measurements, 1893-97; Assistant Professor of Electrical Measurements from 1897.

Author of a number of papers on Electrical Measurements, published in the Technology Quarterly, Proceedings of American Academy of Arts and Sciences, and Physical Review.

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Assistant in Physics, Massachusetts Institute of Technology, 1890-92; Instructor, 1892-97; Studying at Leipzig and Berlin, 1892-94; Assistant Professor from 1897.

Author of Laboratory Notes on Physico-Chemical Measurements; Some Experimental Researches in Acoustics, 1890; Studien zur Volta'sche Kette, 1892; Fundamental Laws of Electrolytic Conduction and other papers in scientific journals.

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WILLIAM S. NEWELL, S.B.	Assistant in Mechanical Engineering.
GEORGE H. RIKER, S.B.	Assistant in Mechanical Engineering.
NORMAN E. SEAVEY, S.B.	Assistant in Physics.
MILES S. SHERRILL, S.B.	Assistant in Analytical Chemistry.
FRANK R. SWIFT, S.B.	Assistant in Mechanical Engineering.
ETHEREDGE WALKER, S.B.	Assistant in Mining Engineering.
CHARLES-EDWARD A. WINSLOW, S.M.	Assistant in Biology.

INSTRUCTORS AND ASSISTANTS IN THE MECHANIC ARTS.

"Mechanic slaves with greasy aprons, rules and hammers."

THEODORE B. MERRICK	.	.	.	.	<i>Instructor in Woodwork and Foundry Work.</i>
JAMES R. LAMBIRTH	.	.	.	.	<i>Instructor in Forging.</i>
ROBERT H. SMITH	.	.	.	.	<i>Instructor in Machine Tool Work.</i>
FRANK CUSHMAN, JR.	.	.	.	.	<i>Assistant in Machine Tool Work.</i>
JOSEPH A. FRIZZELL	.	.	.	.	<i>Assistant in Woodwork and Foundry Work.</i>
JAMES F. LEARY	.	.	.	.	<i>Assistant in Forging.</i>

"Ho, blithe twister! cut a caper for the gentlemen!"

INSTRUCTOR IN GYMNASTICS.

WILLIAM SKARSTROM.

TEACHERS AND LECTURERS FOR THE CURRENT YEAR.

"You are grieved dull, yet I doubt not of your wisdom."

- JOHN ALDEN, S.B., *Textile Printing.*
 TRUMAN H. BARTLETT, *Modeling.*
 LOUIS BELL, Ph.D., *the Electrical Transmission of Power.*
 GEORGE W. BLODGETT, S.B., *The Application of Electricity to Railway Signaling.*
 JOHN BALCH BLOOD, S.B., *The Design of Alternating Current Machinery.*
 GARY N. CALKINS, Ph.D., *Protozoa Inhabiting Water Supplies.*
 HENRY CARMICHAEL, Ph.D., *Electrolysis of Brine.*
 S. EVERETT DOANE, *Incandescent Lamps.*
 HOWARD C. FORBES, S.B., *Commercial Electrical Testing.*
 JOHN R. FREEMAN, S.B., *Fireproof Construction and the Hydraulics of Fire Protection.*
 HOLLIS FRENCH, S.B., *Electrical Engineering Practice and Specifications.*
 CHARLES M. GREEN, *Electric Arc Lighting.*
 F. M. GREEN, U.S.N., *Longitude Determinations.*
 DAVID A. GREGG, *Pen and Ink Drawing*
 HAMMOND V. HAYES, Ph.D., *Telephone Engineering.*
 CHARLES D. JENKINS, S.B., *Illuminating Gas and Pottery.*
 SIMEON C. KEITH, JR., S.B., *Bacteriology of Milk Products.*
 WALTER H. KILHAM, S.B., *History of Ornament.*
 ERNEST A. LE SUEUR, S.B., *Industrial Electro-Chemistry.*
 ARTHUR D. LITTLE, *Paper.*
 JAMES W. LOVELAND, S.B., *Manufacture of Soaps.*
 GUY LOWELL, A.B., S.B., *Grad. École des Beaux Arts, Landscape Gardening.*
 SAMUEL W. MEAD, *Architectural Design.*
 H. G. PROUT, *The Future of the Railroad Engineer.*
 ODIN B. ROBERTS, LL.B., *The Nature and Function of Patents for Inventions.*
 ALBERT SAUVEUR, S.B., *Metallography.*
 THEODORE SKINNER, S.B., *Architectural Design.*
 TIMOTHY W. SPRAGUE, S.B., *Electricity in Mining.*
 JOHN STONE STONE, *The Application of Electrical Oscillations in Telephony.*
 ELIHU THOMSON, *Recent Developments in Applied Electricity.*
 GEORGE W. TILLSON, S.B., *The Construction of City Pavements.*
 ROSS TURNER, *Water Color.*
 W. LYMAN UNDERWOOD, *Bacteriology in the Canning Industries*
 ALBERT L. WEBSTER, *The Drainage of High Office Buildings.*
 GEORGE C. WHIPPLE, S.B., *The Microscopical Examination of Drinking Water.*
 JASPER WHITING, S.B., *Cement Manufacture.*
 S. W. WILDER, JR., S.B., *Alumina and Alumina Compounds.*
 JOSEPH WILLARD, LL.B., *Business Law.*
 C. J. H. WOODBURY, A.M., *Electricity in its Relation to Fire Risks.*



*"A very reverent body: ay, such a one as a man may not speak
of without he say, Sir—reverence."*

President.

JAMES M. CRAFTS.

Secretary.

HARRY W. TYLER.

JOHN D. RUNKLE.
GEORGE A. OSBORNE.
ROBERT H. RICHARDS.
WILLIAM H. NILES.
CHARLES R. CROSS.
GAETANO LANZA.
GEORGE F. SWAIN.
FRANCIS W. CHANDLER.
WILLIAM T. SEDGWICK.
DAVIS R. DEWEY.
SILAS W. HOLMAN.
WEBSTER WELLS.
CECIL H. PEABODY.
ARLO BATES.
D. DESPRADELLE.
PETER SCHWAMB.
C. FRANK ALLEN.
ALFRED E. BURTON.
DWIGHT PORTER.
HEINRICH O. HOFMAN.
HENRY P. TALBOT.
ARTHUR A. NOYES.
ADOLPH RAMBEAU.
THOMAS E. POPE.
ELEAZER B. HOMER.
GEORGE T. DIPPOLD.

LINUS FAUNCE.
DANA P. BARTLETT.
JEROME SONDERICKER.
ALLYNE L. MERRILL.
EDWARD F. MILLER.
WILLIAM O. CROSBY.
FRANK VOGEL.
WILLIAM L. PUFFER.
FREDERICK H. BAILEY.
FRED L. BARDWELL.
AUGUSTUS H. GILL.
S. HOMER WOODBRIDGE.
HARRY E. CLIFFORD.
RICHARD W. LODGE.
FREDERICK S. WOODS.
THEODORE HOUGH.
WILLIAM Z. RIPLEY.
JOSEPH J. SKINNER.
GEORGE H. BARTON.
ARTHUR G. ROBBINS.
WILLIAM H. LAWRENCE.
FRANK A. LAWS.
HARRY M. GOODWIN.
JOHN O. SUMNER.
HENRY G. PEARSON.
JAMES HAMILTON.

CHARLES F. A. CURRIER.

JOHN DANIEL RUNKLE

AND HIS SHARE IN THE DEVELOPMENT OF TECHNOLOGY.



IT requires in the present day the display of no proof, the corroboration of no witness, the citation of no instance, to substantiate the statement that the Massachusetts Institute of Technology is the leading technical institution, with the leading technical system, of the world. To many, such a fact seems now to be beyond reasonable question; and to others, who perhaps have been drawn to the Institute by this precise consideration, it seems an axiom. To all, the fact seems undoubted and permanent. It will be, then, a matter of no little interest to look back only a third of a century and see the Institute in its extreme youth, when—so far as it was known at all, even in its own country—it was considered as only an experimental affair, with nothing especially to make a guaranty for it and with certainly no successful experience to promise it anything like leadership among the world's educational institutions. A consideration that is equally striking, moreover, is found in the development of the Institute from that early state to the present, in the evolution of its successful system,—in the steady, commanding increase of our college's capital of success and prestige. The history of this must be the chronicle of the era from 1865 to 1900; but this era may be divided into distinct stages. The first—the beginning, which was so wisely and surely made that the future, ultimately, was assured by it—has always an especial place of essential importance; but the following period, the decade from 1868 to 1878, shows the most telling part of the whole development. That was the time when the new system merged from theory into practice and when that practice was increased and extended into the spheres in which it later won distinction. It was the time when the Institute was called upon to make its stand and fight for permanence, and when the Institute made its stand, maintained it, and immediately followed it by an advance that has never slackened. It was a period of personal courage, initiative, and generalship. It was the period of the presidency of John Daniel Runkle.

In the zeal of President Runkle in carrying out the designs of his great predecessor, William Barton Rogers, the founder of the Institute, and in his energetic, executive power of origination of new and further applications of the great educational theory, he made the period of his leadership one that is unique. It was an especial epoch. The change in the presidency which is so soon to take place, will definitely mark off still one more epoch in Technology's history. It will, therefore, make the decade now under consideration seem even more remote; and this will give to it a heightened individuality and distinction that can result only in a greater general appreciation of the time. In this period of evolution, the history of Technology is always firmly allied to that of Professor Runkle's life. In the decade of his presidency, embracing the period of great origination and greatest stress, of great anxiety and greatest potential success, the story clings closely to his biography. It is, then, appropriate to touch upon the essential points in the meritorious career of Professor Runkle.



PROFESSOR RUNKLE
IN 1865.

John Daniel Runkle was born in Root, N. Y., on the eleventh of October, 1822. Until he arrived at the age of sixteen, the programme of his life included work on the farm in summer and attendance at the district school in winter. At the age of sixteen he first became acquainted with mathematics higher than simple arithmetic. For three months he attended a private school; and with this as a start, he became master of the higher branches of mathematics in ten years of individual study, working at the same time on the farm and teaching in the district school. In this period he covered the subject of mathematics, not only as to the requirements for entrance to college but also to the extent to which the college courses carried it.

In 1847, it was possible for him to continue his life as a student, and he entered the Lawrence Scientific School at Cambridge. Here he became much interested in Astronomy, and in 1849 he became connected with the *American Ephemeris and Nautical Almanac*, holding his position there until 1884. Upon finishing his college course, in 1851, Mr. Runkle not only received the degree of Bachelor of Science, but also had the honorary degree of Master of Arts conferred upon him by the University. For the next fifteen years, he was busily engaged in his work upon the *Nautical Almanac*, though for three years he taught at Onondaga Academy, stopping in 1847. During the three years just preceding the Civil War, he built up the *Mathematical Monthly*; but this work, of course, had to be discontinued at the outbreak of hostilities in the South. That was about the time of the filling in and development of Back Bay; and Mr. Runkle, with a number

of other men, prominent among whom was Mr. M. D. Ross, was interested in the idea of establishing some advanced educational institution here as improvement for this part of the city. Those interested in the idea formed a club and held regular meetings. Professor William Barton Rogers, upon his arrival in Massachusetts, was made acquainted with the purpose of the club, found this in accordance with his own plans, became of course greatly interested, and very soon took the lead. The history of his repeated attempts to get State concessions for the Institute, and of his final success, has often been told and is well known.

When the Institute was finally started, in the spring of 1865, Mr. Runkle



THE MERCANTILE LIBRARY BUILDING IN 1860.

was one of the original teachers. From that date up to the present, he has been identified with Technology. In 1868, he became acting-President; and upon the resignation of President Rogers, in 1870, he was elected to the office of chief executive. His presidency, as is to be shown in this article, was a notable one, though of such care and hard-won success that in 1878 he was compelled to resign and take a trip abroad for physical and nervous recuperation. Returning to the Institute in 1880, he took the chair of Mathematics, which he holds to-day. Professor Runkle, in conducting his regular classes almost without a break in the long sequence of years, has become more and more intimately connected with the Institute; and the con-

tinual manifestations of his practical interest in Technology keep the college most agreeably indebted to him.

The Institute of Technology began in the Spring of 1865 with a Preliminary Course which lasted until October, when the regular session commenced. During this time, the regular building—the Rogers Building of to-day—was being built; and the sessions of the Institute were held in the quarters of the Society of Arts. These were at 16 Summer Street, between Hawley and Arch Streets, in the building of the Mercantile Library Association; and here it was that Professor Runkle first taught as a Technology professor. He met his first class on February 21, 1865. Twenty-seven students attended this preliminary course; and the Faculty numbered ten, including President W. B. Rogers, LL.D., J. D. Runkle, A.M., Professor of Mathematics and Analytical Mechanics, and Charles W. Eliot,—now President of Harvard University,—Professor of Analytical Chemistry and

Metallurgy. The hall shown in the illustration below was that used by the Society of Arts for its meetings, and the rooms of the Institute were at each side of the entrance, between this hall and the front of the building. When the regular session began, with increased attendance, the rooms on Summer



INTERIOR OF THE MERCANTILE LIBRARY BUILDING.

Street proved inadequate, and temporary quarters were secured nearby on Rowe or Bedford Place, adjoining Chauncy Street, in the dwelling of Judge Charles Jackson. Here Professor Runkle had his lecture-room and for a short time conducted his classes. It was a general relief when the new building on Boylston Street was nearly enough completed for the Institute to begin to move into it. The large class of students, numbering seventy-two, was divided into two sections, and of these the more advanced was made the second-year class, while the other constituted the class of Freshmen. All remained in the Mercantile Building except the Chemical Department, which got into the new building in the last part of the year of 1865-66. The rest of the Institute had to wait until the Fall of 1866.

The Mercantile rooms were far from fitted to the purposes of the Institute. President Rogers, during the latter part of the stay at this building,

wrote in this regard: "... from our bad accommodations on Summer Street, I have daily concern and embarrassment. Seventy lads and young men, overflowing with life, are not readily kept in perfect order in the intervals of class work, when there is no room to retire to for recreation or study." The following, from the letter of one who was a student then, shows that President Rogers' remarks were well founded. "Each student was an emperor, and the surroundings were very unsuited to aid in what might be called the policing of the school. We moved the safe to block the stairway; we brought a hand organ and monkey into the hall; we arranged the ancient house-bell [of the Jackson house] to ring over [our language] Professor's head; we built fires on the kitchen floor; we threw the key into the well." Professor Runkle was, of course, aware of this, but he had the same understanding of boy nature then that characterized him in later years, and the letter continues: "In all of our evil deeds Professor Runkle never made the mistake of regarding a *prank* as a *crime*. We all loved him, and we all thought that he loved us." Even in that short time, his kindly disposition had engendered in the students the same warmth of personal friendship that has been felt up to to-day by every one who has come into his classes.

It was a day of rejoicing when the Institute moved completely into its new building. This was finely suited to the needs of the school, and although there was now the work of arrangement and systematizing to be done, yet the cares and responsibilities were strongest concerning other matters than those of teaching. The finances of the Institute were in a precarious condition. The building had cost enormously; the constantly increasing value of gold had made the expenses relatively greater, rather than less, as the structure approached completion. The delay in construction that had been caused in no degree lessened the total expense at its completion. The payment of instructors was inconsiderable, and there were outstanding obligations. In 1868, there were one hundred and sixty-seven students attending, and the increase in numbers made the mechanical work of running the Institute considerably harder. Professor Runkle shared with President Rogers in his plans during this time and was an able assistant in carrying them out; so that in 1868, when a sudden and prolonged illness incapacitated the great President for further duty, Professor Runkle was made acting President, to serve in the other's place. He stepped in, took up the work where it had been left overnight by the other, and began his ten years' presidency. In May, 1870, President Rogers resigned, on account of his continued illness; and in a letter to the Government of the Institute he recommended Professor Runkle as his successor: "In retiring from the presidency of the Institute, I trust you will not deem me presumptuous in recommending Professor Runkle as my successor. I know no one who is

more thoroughly familiar with the objects and spirit of its organization, or who would better carry them out in its development. His faithful services and tried ability in administering the affairs of the Institute for the last two sessions appear to me eminently to fit him for the position, and should he be your choice, I should in retiring have the satisfaction of feeling that the Institute is in the charge of one who will bring experience as well as earnest zeal to its advancement. . . ."

A glance at the Institute as a whole at the time that Professor Runkle undertook the presidency reveals a condition that is remarkably striking. The Institute was just five years old. It had in the world at large just



PRESIDENT JOHN D. RUNKLE.

thirty graduates to speak for it when they would and work for it if they could. It had two hundred and six students, and a corps of twenty-five instructors. No women were at the Institute: applications had already been made, but it had been impossible to grant them. The Institute was only becoming known in this country; abroad it was practically unheard of. A member of the Class of 1872 writes: "I found [in the winter of 1872] that our famous Tech. and Professor Runkle were almost unknown, and that my standing as a graduate of the Tech. would not entitle me to enter the Swiss [Polytechnic] School without passing the entrance exams." Locally the college was known well, but this was due to the wonderful personality of Professor Rogers and the active efforts he had

made among influential people to raise money for the institution. There was need enough for Technology to be known well among moneyed people, for it was still greatly in debt, and its salaries were pathetically small. Moreover, the crisis of 1873 was awaiting them, and events were to occur which would necessitate considerable expenditures of money. There were six courses of instruction offered: Mechanical Engineering, Civil and Topographical Engineering, Chemistry, Geology and Mining Engineering, and Science and Literature. It was not until the year of 1873-74 that the studies were arranged according to the time required for them and with a view to the total amount of work demanded by them. Of this, more will be said on a

following page. Drill was at that time compulsory in the Sophomore, Junior, and Senior years, as well as for the Freshmen. Up to the year 1874, there had been no formalities, private or public, connected with graduation and conferring of degrees. It is recalled by one of the first graduates that, in the early years, candidates for degrees simply dropped casually in at the Secretary's office, when the time was convenient, to get their diplomas.

A report upon the new building of the Institute, issued in 1869, gave the following interesting facts: "The building is 150 feet by 100 feet on the ground, and 85 feet high. It stands upon about 1,500 spruce piles, twenty-four feet in length, driven to a firm bearing upon the solid clay. . . . Rusticated free-stone piers support a tetrastyle portico, on a level with the second floor, which supports a richly-wrought entablature, crowned by a pediment, designed to contain an allegorical bas-relief representing the Genius of Art bestowing her favors upon inventors and mechanics, who are in the act of presenting the results of their skill for her consideration. This pediment is surmounted by a stone pedestal, intended for the support of a colossal statue of Minerva, as patroness of art, and typical of the purposes of the Institute. The architect is William G.



THE ROGERS BUILDING IN 1869.

Preston, of Boston." The building was strikingly situated. As a companion structure to the Natural History Building, it gave the same impression of architectural stability that it does to-day; and as the last building on the street, it seemed in truth to be the pioneer, pushing forward its powerful agent of education. It was the true founder of cultured Copley Square and may be considered one of the "oldest inhabitants" of Back Bay. The interior of the building was, excepting the changes made very recently, substantially as it is now. There was originally a broad stairway leading from the corridor down to the basement, but this was changed in later years to make more room for the Mining Department.

In the basement there were all the chemical laboratories,—fitted for over one hundred students,—the Mining and Mineralogical Laboratories, and the Chemistry Lecture-room, the last arranged for one hundred and fifty stu-

dents. Also, in the room now used as Professor Richards' office, there was the Professors' Chemical Laboratory; and it was here that the first woman student at Technology worked, and won her degree. A carpenter's shop and a chemical storeroom, besides the engine and boiler rooms, also found places for themselves; and finally there was a little private chemical laboratory, which was, in 1871, given up to the use of "Professor J. M. Crafts." The Mining Laboratory consisted of one small steam engine and what was then a typical set of models of mining machinery. There were a collection of ores and a scientific library with maps and diagrams. In the Metallurgical Laboratory there were "a Griffin's gas furnace, a small reverberatory furnace for roasting ores, three furnaces for crucible operations, a kettle for sand-bath or for melting the more fusible metals, a small forge, a screw press, two cupelling furnaces, a bench for combustions, and bins for wood, coke, charcoal, anthracite and bituminous coal."

On the first floor were the Physical lecture room, the Geological museum and the Physical museum and laboratories. The last of these occupied about one half of the total classroom space, including what is now the General Library. On the second story there were rooms for mathematics, engineering, languages, English, and mechanics. The mechanical collection,—it could not be called a laboratory—consisted of models and pictures of various kinds of engines, boilers, etc., and a number of models representing important parts of machines. Also, there was "the great lecture hall," which was reported to be "92 by 65½ feet and 27 feet in height." The hall was not completed until 1870.

The next floor contained museums for architectural and engineering models, and one for natural history. Above these came the drawing rooms; the one directly over the large lecture hall being used as a museum for descriptive geometry and mechanics. Beside this, was a photographic laboratory. On the top story were found the professors' studies, among them the little room used by Professor Runkle before he moved down into the office of the President. Professor Runkle's little fourth-story den was twenty-four and three-quarters feet long by seven and one-half feet wide. He met his classes then, as now, in Room 22.

This was the Institute of Technology in 1870.

In the consideration of the development of the school in the next eight years, it is interesting to note the constant additions to the instructing force. By 1869, G. A. Osborne had been obtained as Professor of Astronomy and Navigation; also, R. H. Richards came in as Assistant in General Chemistry, at a salary of \$400 (*sic*) per year. In 1869, came F. W. Chandler, Assistant in Architecture; in 1870, J. M. Crafts, S.B., Professor of General and Analytical Chemistry, and C. R. Cross, Instructor in Physics. Also, in

this year the catalogue mentioned a "Professor of Vocal Culture and Elocution." In 1871, came W. H. Niles, Ph.B., A.M., as Professor of Physical Geology and Geography. Also, Gaetano Lanza, S.B., C.E., entered the list as Instructor of Mathematics. In the same year R. H. Richards was made "Professor of Mining and Assaying, in charge of Mining and Metallurgical Laboratories." Then followed in 1873, Webster Wells, S.B., Instructor in Mathematics; in 1874, T. E. Pope, A.M., Instructor in Quantitative Analysis; in 1875, W. O. Crosby, S.B., Assistant in Paleontology; in 1876, S. W. Holman, S.B., Assistant in Physics; and in 1877, H. K. Burrison, S. B., Assistant in Mechanical and Free-Hand Drawing.

There are four main things that mark the time of President Runkle,—the establishing of four important parts of the Institute: the Physical Laboratory, the Mining Laboratory, the Mechanical Engineering Laboratory, and the Shops. In two of these President Runkle took an initiative part, and in all of them his active

administration did much for their success.

The Physical Laboratory was established, practically, in the years 1868 and 1869. The matter was planned and the ideas put generally into shape by Professor Edmund Pickering, who was then at the head of the Physical Department. The



THE PHYSICAL LABORATORY IN 1875.

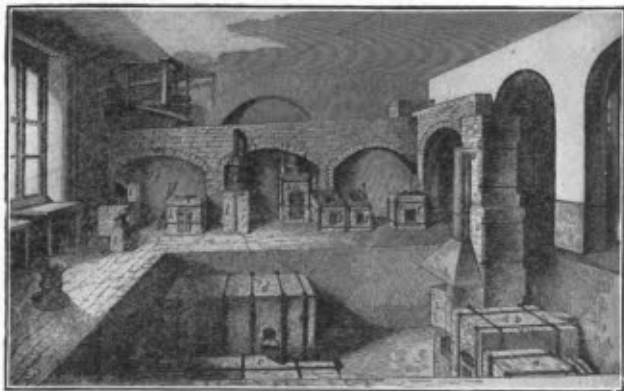
original idea, the influence that brought the needful assistance, and the effective presentation of the original conception, all had been the work of President Rogers. Work continued on the better equipment and arrangement of the laboratory for several years; and in his annual report of 1876, Professor Pickering thus makes acknowledgment of President Runkle's assistance in this: "I cannot close this report without an acknowledgment of the aid I have received from you, Mr. President, in bringing our laboratory into its present state of efficiency. Your confidence in its success from the very beginning, your encouragement and enthusiasm regarding its extension, and the interest you have shown in every detail, have helped, more than we have realized, to such success as we have attained." In 1882, the laboratory received the name of "The Rogers Laboratory of Physics," and ex-President Rogers in acknowledgment wrote as follows in

regard to the originality and value of that part of the Physics Department: " . . . In drawing up 'the Scope and Plan' of the Institute of Technology . . . in the year 1864, I included a Physical Laboratory as among the practical means of instruction to be established in our school, and . . . I indulged in the belief that I was initiating a very important improvement in the methods of scientific training, for which hitherto no provision had been made, either abroad or at home. The extent to which this idea of a Physical Laboratory has been followed out in other institutions, and the number of instances in which our own laboratory, so admirably organized and directed by Professor Pickering, has been consulted by them as an example, show very clearly how prompt and general has been the recognition of the value of this step in educational progress. Our Institute may thus, I think, in this as well as in other features of its organization, claim the credit of having made an advance in practical scientific education."

The Mining Department of the Institute, as has already been shown, was almost entirely theoretical in its methods of instruction. There was a need, although it was not definitely appreciated, of a Mining Laboratory. In May, 1864, the Committee on Instruction, of which Professor W. B. Rogers had been Chairman, had made a report to the Government of the Institute in the form of a "plan for the various branches of teaching, etc.,"—later published under the title of *Scope and Plan of the School of Industrial Science of the Massachusetts Institute of Technology*; and in this mention was made of "a laboratory for Metallurgy and Mining" for some indefinite time in the future. In subsequent years, this mention had not been noticed; but now the indefinite time in the future had come. In 1870, President Runkle went to St. Louis, and there met Dr. William G. Elliot. Upon the invitation of Dr. Elliot, President Runkle accompanied him to Denver, Colorado, and spent some time among the mountains, becoming considerably impressed by the practical training shown in the life there. This seemed to him to be just what the Institute students lacked; and he conceived the idea of a Mining Engineering Summer School in which the students could find opportunity to see what he had seen and thus get the practical appreciation of the subject that was so essential. This conception was made a reality in the Summer of 1871, in the first Summer School in the Institute's history. Help was gained from the railroads, and Professor Runkle, attended by five professors and seventeen boys, left Boston soon after the close of the term in June and made a tour through the mining regions of the West. They visited Iron Mountain and Pilot Knob in Missouri; Central Georgetown, Caribou, Ward, and Golden in Colorado; Salt Lake City and Flagstaff in Utah; Virginia City and Gold Hill in Nevada; and Grass Valley in California. In his President's Report for 1875, he

speaks of the trip as follows: "It was during this excursion, while observing the wrecks of fortunes strown all over the territories, that the thought occurred to us that much of this waste was due to a want of practical skill joined with scientific knowledge, and that the opportunity for experimenting upon comparatively large quantities of ores must be furnished to our students during the course, as a part of their laboratory work."

Lack of practical knowledge prevented his working upon his idea of a laboratory then; but the students made studies in mining and milling operations, and he received many samples of different kinds of ores to help the beginning of the work in Boston. While in the Rockies, a number in the party camped upon Grey's Peak, one of the highest summits there, about three miles from the top. The food they had carried with them was, like the water, frozen solid, and it had to be eaten in that condition. A hasty three-mile climb the next morning brought the adventurers to the summit, where they met three of their companions who had had the temerity to spend the night on the top, just in time to see a glorious sunrise. This impressive sight remains, even to-day, one of the most vivid recollections of the whole trip.



THE METALLURGICAL LABORATORY IN 1874.

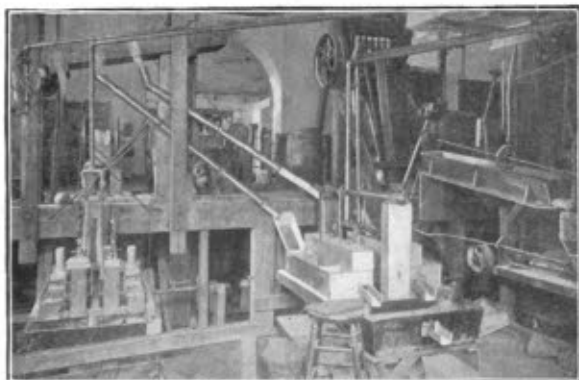
The party divided in Salt Lake City; Professor Richards went to Laramie Plains, Wyoming, while President Runkle went to San Francisco. Here he saw two small laboratories used for the testing of ore. The processes were detached, and no attempt was made to represent the best forms and kinds of machinery in use at that time in California for the reduction of gold and silver ores. His idea, however, was to duplicate the machines in these laboratories in the Institute. Through Mr. J. M. Scott, of Prescott, Scott & Company (now the Union Iron Works, of San Francisco), he was enabled to get many practical suggestions and to fit up a much better laboratory at a moderate cost. He obtained a Blake crusher, a stamp mill, an amalgamating pan, and a settler and Hendry Concentrator.

While President Runkle was completing his Summer School in the West,

Professor Richards was completing his work in Wyoming, preparatory to his return to the Institute to superintend the putting in of the new apparatus. Meanwhile, Professor Ordway returned from the Summer School to the East, to design and construct assaying furnaces for small scale work, and calcining, smelting, reverberatory, and shaft furnaces for working ores on a large scale by fire. Thus was completed the plan for Mining and Metallurgical Laboratories for the Institute. What the laboratory of mining was finally like is well shown by the following, from one who was a student in the laboratory just after its establishment. "It originally furnished a pointed case of *multum in parvo*; a complication of belts and pulleys, pans and settlers, screens and jigs, stamps and separators, for 'products' of all variety, stowed away in the least space with an ingenuity that was a wonder to the uninitiated and a joy to the adept. As the best-appointed, 'up-to-

date' laboratory (at that time), it was undoubtedly a drawing card for the Institute."

In his report of 1875, President Runkle showed his appreciation of the invaluable services of the assisting professors. He said, after telling what he did to get the apparatus for the laboratory: "These steps would have been fruit-



THE MINING LABORATORY IN 1874.

less if I had not been so ably and enthusiastically supported by Professors Ordway and Richards. The furnaces in the Metallurgical Laboratory were designed by Professor Ordway and built under his direction, while the Mining Laboratory has reached its present state of progress almost entirely through the ability, practical skill, and untiring energy of Professor Richards. Thus, what was a conviction has become a practical reality, and the entire credit of the existence of these novel laboratories is due to the professors whose unfaltering faith in success has made them possible."

The constant growth of the student body of the Institute brought much encouragement, though already the necessity for increased quarters was becoming manifest. The following portions of his letters to Professor Rogers show the feeling of President Runkle over these signs of encouragement and progress. On October third, 1872: "The new class for admission is now

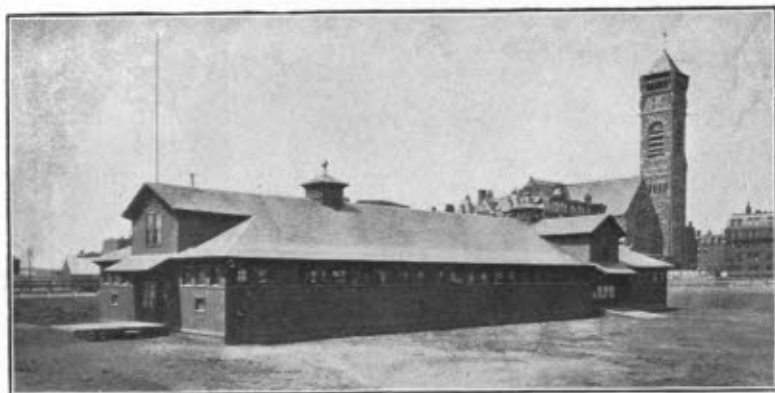
at work, and I take the first moment to write you the inspiring news. There are *over eighty* new applicants; seventy have been admitted at the June examinations, and including a few during the summer. The new class will be not much less than one hundred and fifty on Monday next, and you know that quite a number will want to join the first two or three weeks. . . .” The number of students in the Institute that year was three hundred and forty-eight. Mr. Rogers had once said that his highest expectations would be realized if the Institute ever could assemble as many as two hundred and fifty students. His expectations were destined to a still greater measure in their realization. The shadow of the coming Walker Building may be said to have been cast upon the Institute square, when President Runkle wrote the following to him concerning the same class: “Our greatest difficulty is in the number and size of our recitation rooms; only two will hold the whole class, and the mathematical rooms are not large enough for half the class. We are getting on pretty well in the laboratories and drawing rooms. . . . But it will be impossible to go on another year if the new class shall be as large as the present first year.” The next year, however, was to bring the hard times of 1873; and extra accommodations were not needed on account of increasing classes for several years.



THE LOWELL SCHOOL LOOM ROOM IN 1877.

In 1872, The Lowell School of Practical Design was established in connection with the Institute. The Lowell School had been established in 1840, and had rooms originally under the old Marlborough Hotel, but this had been only for drawing and had led to no appreciably practical results. In 1872, Mr. John Amory Lowell, realizing the importance in technical education of practical design, volunteered to pay all expenses if the Institute would establish the school and provide the rooms. An agreement was made, and has continued until to-day. The plan of this school was to have designs that could go directly to the mills and be woven into the cloth. At first, therefore, the weaving branch of the work was introduced into the school, and looms were provided for instruction. This element in the training was not long continued.

A very important action was that taken in 1873 in the definite scheduling of the studies of the courses. Until this time, when a spare hour was found in the general subject plan, a professor would volunteer to conduct a new subject to fill the space; and thus as spaces occurred the number of studies grew ever greater, until the students were absolutely overburdened with work. After a while, they would become so choked up with this extra work that a climax would be reached. Then there would be a stop; the additional subjects would be pruned out, and the study demands made normal again. Again it would gradually grow greater; then another cutting out would take place. Thus the study total went in waves, up and down. It was at the crest of the second wave that Professor Richards suggested a study schedule with a definite *standard* of the amount of work, and fixed ratios of time allowed for preparation and exercises in the standard. Professor Richards



THE GYMNASIUM AND DRILL HALL ON THE INSTITUTE SQUARE.

was made chairman of a committee on this matter, and course schedules were prepared, allowing definite hours for exercise and preparation. The studies were classed in the following manner: hard-study subjects, such as Mathematics, Languages, Applied Mechanics and Engineering, were allowed the ratio of two hours of preparation to one of exercise; moderate-study subjects, like English, History, Literature and Geology, were allowed the ratio of one to one; Laboratory work was made one quarter to one, and Drawing was rated at zero to one. The study schedules were based upon this standard, with a separate schedule for each course. The result was, as would be expected, a great improvement on the part of both students and instructors.

Between the years 1872 and 1874, the Mineralogical laboratory had been established; and in 1874, the Institute obtained the Dixwell Engine as the first piece of apparatus for a laboratory of Mechanical Engineering. Mr.

George B. Dixwell, who had retired from mercantile life in China, had become much interested in steam engineering and wanted to make tests of the action of super-heated steam on machines. It was found that the Corliss Company would make a Harris-Corliss engine for this purpose at a cost of about \$1,250. This was too expensive for Mr. Dixwell, and he came to Professor Runkle and offered to buy the affair jointly with him, the engine ultimately becoming the property of the Institute. An agreement was made, the engine procured and placed in the basement of Rogers Building, and the tests made. In course of time, the engine became the property of the Institute. Tests were made on it by Professor Whittaker, who supervised that department of the instruction. That piece of apparatus was the true nucleus of the laboratory. The present large laboratory of Mechanical Engineering still contains the old Dixwell Engine, which is still serviceable, even if a little unreliable.

Before 1874, a new building had been added to the Institute. It was a low, wooden structure, placed in one side of the Institute corner, facing Boylston Street. It was a gymnasium for the use of the students. On days for military drill, the apparatus was hoisted up to the roof, and the drill took place in the building. Until the erection of this building, drill had



INTERIOR OF THE GYMNASIUM IN 1875.

been conducted upon the side streets and fields of the vicinity; and on rainy or very windy days considerable discomfort was undergone by the participants. Lieutenant Zalinski, who was zealous in the performance of his duty as military instructor and was progressive in all things pertaining to his branch of the Institute duties, suggested to President Runkle the possibility of having erected upon the Institute square a building which could be used not only as a hall for the drills, but also as a gymnasium for the boys, who—up to that time—took their exercise upon the field of Copley Square. It was found that the erection of such a building would not be particularly expensive, and the President was impressed with the desirability of the affair. The land next to Clarendon Street was selected, and as it was rather low, piles were driven in that place for the support of the building. A wooden framework was covered with metal sheathing, and the building

was surmounted by the same roof that is over the present gymnasium. In this gymnasium was found the precursor of the present Technology lunch room. A part of the building, at the end facing Newbury Street, was given up for a dining-room and kitchen, so that the students of the Institute could be provided with meals through the week. President Runkle, in his report of 1875, made in this regard the declaration that since proved the effective thought in the maintaining of a place for the present lunch room when the Pierce Building was built. He wrote: "We have now a dining-room, a lunch room, a kitchen with storerooms, and caterer's rooms, all suitably furnished. Full dinners are served for 35 cents, and board by the week for \$3.50. I am fully satisfied that it is the duty of the Institute to maintain this restaurant as a means of promoting the health of students and of reducing their necessary expenses." The building was used for about ten years, until the erection of the Walker Building on the Institute square.

The panic of 1873 had its effect upon Technology, not only in slightly decreasing the available funds of the institution, but also in putting a check to the sources from which the Institute had received financial aid. Moreover, the effect was noticeable in the decrease in the number of students who could attend the Institute. In the year 1873, there were 348 students, the number having steadily increased since the starting of the college. In 1876, there were but 255 students, and in 1877, 215,—the number growing less as the classes that entered before the panic became graduated. Yet the Institute in itself was not radically affected by the financial stringency. One or two subjects were discontinued, with a view to economy in the salary expense, but the standard of the college was maintained. President Runkle wrote in his report of 1877: "As a whole, the school has never been in a state of higher efficiency than at the present time." It was in this period, moreover, that the greatest achievement of all took place: the establishing of the new system of mechanical training. It was the founding of the Institute's system of foundry and shop work.

Before this time, mechanical work at the Institute had been based on the same system as that of the other industrial schools of the country; that is, the essential idea was the construction of machines by the students, according to certain fixed and complete rules, for the purpose of placing the product upon the market, and realizing upon its sale the cost of its construction. The work was done with the fundamental idea of *construction*, not of *instruction*. In 1876, President Runkle visited the Centennial Exhibition at Philadelphia, and here he saw samples of work done by the industrial schools of St. Petersburg and Moscow under the Russian system. Here the design was of instruction, primarily and fundamentally. President Runkle appreciated the difference in this system, realized its superiority

over that of America, and became wholly enthusiastic over it. He had gone to Philadelphia seeking a solution to the problem, "Can a system of shop-work instruction be devised of sufficient range and quality, which will not consume more time than ought to be shared from the indispensable studies?" Upon his return, he reported to the Government of the Institute: "The question has been answered triumphantly in the affirmative, and the answer comes from Russia." The following sentences from a letter written by him shortly after his return show better than anything else can his estimation of the difference of the two systems.

"Russia has taught us a grand lesson. . . . The Worcester Institute, Cornell University, and the Illinois University have built up shops, but always from the manufacturing side and idea, and not from the teaching side. They have not analyzed machines and found a certain limited num-



THE MECHANIC ARTS BUILDING IN 1878; THE "ANNEX."

ber of forms which the student should be taught to work out in a systematic way and in classes, just as the elements of drawing or laboratory work are taught. This the Russians have done in a complete and inexpensive way, in shops, each adapted for some particular kind of work. Beginners have not been put into expensive shops, fitted with large machines, tools, and power before they are at all qualified to enter such works. The point is simply this: systematic instruction upon the elements in preliminary inexpensive shops fitted for this particular use. After the elementary courses on filing, forging, turning, and welding, the student is prepared to enter the shops in which machine construction is an end, making additional instruction, if need be, subsidiary. In the St. Petersburg school this advanced shop is still entirely for instruction."

He immediately started to work for the introduction of the new system

into Technology. Assistance in the way of models and information was freely sent him from Russia, and all that was needed was money, to introduce the plan into the Institute. Assistance was received from the Mechanics' Charitable Association to the extent of \$3,000, in return for certain privileges which would be accorded students from the Association. These privileges lapsed, several years later, upon the repayment of the money.



THE FORGE ROOM OF THE MECHANIC ARTS.

four new departments. The first and most important of these was the department of Mechanic Arts. This consisted of a machine-tool shop, a foundry, a chipping and filing shop, a room for carpentering, joining, turning and pattern-making, containing 16 lathes, a tool and stock room, and a forge room in which were ten forges. Here the new men were taught the fundamental operations of forge work. A piece of rough iron was taken, and the student was shown how to make it into a bolt. Then he was told to make a pair of tongs by application of the various principles according to which he had already worked. The results, and indeed the first results, were good, and often remarkably good.



THE MACHINE SHOP OF THE MECHANIC ARTS.

The intention had been to make the school one of "Industrial science," to prepare for and match the Technology school of "Applied science." This was found for various reasons to be undesirable, and the idea was

abandoned, the shops being adopted as a department of the Institute. As is too well known to be spoken of at length again here, the system proved wonderfully successful. President Rogers spoke of it in a letter written in 1878 with high praise. The system was copied widely; and the Institute shops and practice were studied by delegates from institutions all over the country. The system has been adopted very extensively in the West, though without in the least detracting from the Institute's distinctive reputation founded upon it.

At the other end of the building there were several rooms, and important among them were three laboratories. One of these was the Microscopical Laboratory for Analytical Chemistry, and it was the first step toward



THE MICROSCOPTICAL OR BIOLOGICAL LABORATORY.

the Institute's Biological Laboratory. Here were taught, in addition to Analytical Chemistry, the subjects of Botany and Zoölogy, and many people, since then prominent in intellectual circles, availed themselves



THE WOMAN'S LABORATORY IN 1878.

of the advantages here, which were not readily accessible elsewhere. A second laboratory was of Industrial Chemistry, and here were carried on the famous experiments on oils and friction, on wool grease, and on fermentation. This important branch was perpetuated and increased, and now has

special quarters in the top of the Pierce Building. The most important of the laboratories, however, was the third—the laboratory for women. Women had been admitted to the regular Institute Laboratories only in the night schools, but opportunities for day work were given here. This was done at the request

of the Woman's Educational Association of Boston, from which aid to the extent of \$1,200 was received for the building. It was called the "Woman's Laboratory," and was under the direction of Prof. John M. Ordway and Mrs. R. H. Richards. Practical instruction was offered in Mineralogy and Natural History, in addition to Chemistry. One hundred and two women were instructed in this laboratory, and over twenty of them, fifteen years later, were heads of schools or professors at college.

This building contained also an Organic Chemical Laboratory, a balance room, a dark room for spectroscopic work, and the Lowell School Loom room, besides the special workroom, reception room, washroom, storeroom, ice room, and engine room with two Sturtevant blowers.

One woman student had taken the Chemistry course at Technology and had graduated; but this instance served as an introduction to the co-educational system rather than as an example of it. The student, now Mrs. Richards of the Department of Sanitary Chemistry, was admitted to the Institute to do third-year work, she being a graduate of Vassar College; and had the use of the professors' laboratory in the basement of the large building. When she had finished all the third and fourth year studies, she was considered, according to the regulations for graduate students, to have completed the requirements of the course, and her diploma was awarded in 1873 although no arrangements had been previously made in that regard. It is pleasant to note here that President Runkle was instrumental in her admittance to the Institute, and that President Crafts is the one to whom is due the awarding of her degree. This fact, while making an agreeable completeness to President Runkle's work, also furnishes a bond equally pleasant between him and the one who was later to be his successor to the presidency.

All that has been recounted of the development of the Institute, has been told with none of the uncertainty and anxiety that attended its occurrence. Sufficient stress, undoubtedly, has not been laid upon the constant struggle there was to keep the Institute in operation without irredeemably mortgaging its future by an accumulation of its many financial obligations. That this could have been avoided, and that in addition money could have been obtained for the great though apparently uncertain changes that were introduced, speak eloquently for the power and influence of President Runkle, as for his perseverance and his great administrative and executive ability. There is, however, another side which has yet to be considered; one that has been kept back by the writer as it was subordinated by the man himself, until it had to appear and make a close to the list of achievements,—the effect of it all on the health of the President. The strain was great, and it had been long continued. Taking up the duties of the office as they had been instantly left by his predecessor, and carrying them out and increasing

them in the decade of the Institute's hardest struggle, Professor Runkle had to pay finally some regard to himself. The condition of his health was serious, and in 1878 it necessitated his resignation and immediate departure for Europe. William B. Rogers, his predecessor and his successor, wrote to the Corporation of the Institute in regard to the resignation:—

“I beg to say to you that I cannot let him relinquish the position which he has filled so long and so disinterestedly without expressing my sense of the great value of his services to the Institute. Few persons know the labours and the perplexities which have been involved in carrying forward the plan of the Institute to its present widely expanded activity; but all who have marked its progress will, I am sure, agree with me in a most grateful recognition of the unflagging devotion to its welfare which President Runkle has always shown, and will be assured that his zealous and disinterested labours as President of the Institute must always have an honored place in its history.”

In summarizing the development of the decade that has been under consideration, mention should be made of the number of graduates. This had increased from thirty in 1870 to two hundred and twenty-three in 1878, and included, in the years of Professor Runkle's presidency, Charles R. Cross, C. Frank Allen, Ellen H. Richards, Webster Wells, Henry K. Burrisson, William O. Crosby, Silas W. Holman, Linus Faunce, Cecil H. Peabody, George F. Swain and Peter Schwamb. The number of instructors had increased by fifty per cent from 1870 till 1878. The Faculty had increased eighty per cent. The buildings of the Institute were three instead of one; and though the two later buildings were insignificant in size, they contained what have grown to monopolize a great part of the consideration of the present day,—mechanics for working hours, and gymnastics for recreation.

The Mining Laboratory had been successfully established; the Mechanical Engineering Laboratory had received its first piece of apparatus. The Biological Laboratory and the Industrial Chemistry Laboratory had been started, and the Physical Laboratory had been organized. The studies had been systematically scheduled; three new courses—Metallurgy, Biology and Physics—had been founded; the co-educational operation of the Institute had been opened. The Lowell School of Design had become identified with the Institute; the department of Mineralogy had begun on the development of its laboratory. The students had opportunities furnished for gymnastic training; the department of drill was carried on in a suitable building. The very important matter of the food supply had been arranged in a way that has merited and won duplication and expansion; Summer Schools had been established. The trying period of the hard times had been safely

passed; and the shops and foundry had been triumphantly started. Finally, the Institute, which in 1872 was unknown to the Polytechnic School in Switzerland, had been favored with the attention and liberality of the Czar of Russia, and was being copied by numerous institutions all over the country.

Almost every year something new had been started. Everything was done with almost no nucleus; no specific, little general. There was no money to use or to count on. There was no alumni body to look to for interest, ideas, help, enthusiasm, or approval. Everything was small, restricted, unexpansible. Well did Mr. Rogers write, "President Runkle has worked with the utmost zeal and disinterestedness for many years in developing the methods of the Institute, often with inadequate means and appliances." It was recognized by President Walker, who later spoke of Professor Runkle as Mr. Rogers's companion, "trusted and tried in the time of difficulty and doubt, in the day of small things and of meetings in an upper chamber." Everything he did was new,—essentially first. There were no precedents in the United States, and—with the Russian exception,—no precedents anywhere. Everything succeeded. There was no failure. There are many who followed the example which had been set and the lead that had been made. To-day, let one stand in the Institute and face whatever way he will, something there is which will suggest to him the marvelous origination of that period and will impress upon him the vital importance of the work of the Runkle Presidency.

No one would be more loath than would be Professor Runkle himself to let the summary end thus, without appreciative reference to those who so strongly and earnestly assisted in the tremendous work. The splendid efforts of those, and their splendid results, were in truth the tools without which President Runkle could have done nothing. His helpers shared in the labor, and took their due portion of the anxiety and care. Some of them are still with us, and the work they did can be estimated from the prominent positions they hold to-day and from the masterly management by which those positions are characterized.

Yet in so great an evolution as this, it is to see but a portion of the story to look only where the presidency ends. Real worth comes with developement, and that comes with time. Full appreciation comes only from the consideration of the inspiration given to President Runkle's successors, and of the culmination of those features which passed into existence under one executive to be developed by the energy of his followers. Then, too, the additions that have characterized each succeeding Presidency,—the old returning inspiration that came with President Rogers' return, the general broadening that was the keynote of President Walker's administration,

the concentration and strengthening that have been brought about by President Crafts,—all have their connection with the developments of the Runkle Presidency by their essential share in the co-ordinated, complete success that is shown by Technology of to-day and its brilliant promise for the future.

In September, 1880, Professor Runkle returned from Europe and resumed the chair of Mathematics at the Institute. Then there began again what had been broken only by his trip abroad and has continued until



PROFESSOR RUNKLE AND HIS CLASS IN 1900.

to-day, the cordial feeling and affectionate understanding sustained between his students and himself. Students of 1900 experience it; students of 1865 remember it. It is one of the happiest bonds between Technology life of the present and its life of the past. No better relation could exist between Professor Runkle and the Institute than in the continued instruction given by him and the pleasurable acquaintance thus made possible for the students. It seems a nearly perfect arrangement; and common thought and feeling unite in the one wish that it may long continue.

THE CLASSES



CLASS OF 1900.

COLORS: Crimson and Black.

YELL.

Boom, Rah! Boom, Rah!

Boom, Rah! Ree!

Nineteen Hundred! M. I. T.!

CLASS OF 1901.

COLORS: Orange and Black.

YELL.

Naughty-one! Naughty-one! Naughty-one!

Rah, Rah, Rah! Rah, Rah, Rah!

Rah, Rah, Rah!

Technology.

CLASS OF 1902.

COLORS: Blue and Gray.

YELL.

Naughty-two! Naughty-two! Naughty-two!

Rah! Rah! Rah! Rah! Rah!

Naughty-two!

CLASS OF 1903.

COLORS: Blue and Gold.

YELL.

Naughty-three! three! three!

Naughty-three! three! three!

M. I. T.! Naughty-three!

The Senior



W.T. Auld

CLASS OF 1900.

"This is Worshipful Society."

OFFICERS.

President.

CLIFFORD MILTON LEONARD.

First Vice President.

WILLIAM ASBURY DOREY.

Second Vice President.

FRANK DAVID CHASE.

Secretary.

STANLEY COLLAMORE SEARS.

Treasurer.

JAMES HERVEY BATCHELLER.

Director.

GEORGE EDMUND RUSSELL.

INSTITUTE COMMITTEE.

ROBERT HOGDEN CLARY.

HENRY DETRICH JOUETT.

SENIOR CLASS HISTORY.



WHEN the sun rose from its blood-red bed on the morning of September thirtieth, eighteen hundred and ninety-six, it blushed with shame to find Russell Suter sitting on the Rogers steps, already looking for that early worm known to the students of Course I. as the "C." Following closely in Russell's ample footsteps came other members of the now famous Class of Nineteen Hundred, all eager and earnest to receive the warm welcome which they felt sure would be tendered them by the Faculty of the Institute. For some unknown reason the Institute did not, however, seem to be duly impressed with the greatness of entering class. Harry Tyler sat, as usual, in his office, surrounded by his whiskers. From time to time he glanced at a hand-glass, to make sure that he still resembled Hobson.

Before many of us had begun to understand the first column of a Section Card, October was on us with a rush, bringing with it the soft purr of Tommie Pope's voice and the sting of Linus's heart-to-heart talks. Then came the President's annual address to Freshmen, when we were informed how easy the work at the Institute really was if we simply worked twenty hours out of every twenty-four—a simple little precept which we all followed for the greater part of the first week.

Turning from business to pleasure, we entered near the beginning of our career the great Republican parade; this was made up mostly of Democrats, Populists, Bill Hearn and a lump of omnipotence by the name of Hall, but nevertheless it was a howling success—as far as noise went. Dan Stewart and "Shorty" Plumb took the part of transparency poles, much to the delight of the urchin population of South Boston, who thought the "H. Ghost and Us" Society had broken loose. The parade, after tramping over the greater part of Boston, was finally disbanded, the rank and file seeking recreation in the confines of Scollay Square, where Corporal Bailey got his ear in a Harvard man's mouth and wouldn't let go.

Both the classes of Ninety-Nine and Nineteen Hundred, not having covered themselves with sufficient honor to satisfy their ambitious cravings, decided to indulge in the usual cane-rush and foot-ball game. In accordance with this decision President Cooper, dressed in an ancient *robe-de-nuit* tucked into foot-ball trousers and held tight to his body by means of an abandoned "Queen's Own," marshaled his ill-assorted followers behind the Rogers Building on November eleventh. Thence he led them to the bloody battlefield at the South End Grounds, there to meet defeat on the gridiron to the tune of 6 to 0; a terrible blow, which was only wiped out by our manifest supremacy in the cane rush, although some questioned our obvious victory on the ground that the score was 19-19. During the cane-rush, Heinie Rapp gave an exhibition of his now-famous feat of sticking to the cane from start to finish. The whistle blew, the pistol cracked, hands were counted, and the score announced, but still Heinie stuck fast to the cane; he simply wouldn't let go; it was finally found necessary to pour hot water over him to loosen his hold. It became known later that Heinie had dipped his hands into Le Page's Liquid Glue, and was getting fifty for the advertisement.

Not long after the cane rush came our first semies, which developed a few cases of "sore eyes" and doctor's orders for a change of occupation. Nevertheless, there were enough left for Osgood to make a good bargain in volunteering to take care of our baseball team as well as in relieving other managers of their assets. It was a good team that he put on the field that spring, and in spite of the curves in "Mac's" legs, it battled itself into a reputation, as well as into the class debt. The crowning glory of Osgood's life was when his team made the Sophomores look like thirty cents; a trick which they performed with so much agility that the cover was knocked off the ball before the end of the second inning.

The fall of ninety-seven found Nineteen Hundred's ready workers once more on the taps,—eager to increase the class debt, if Dan Stewart would only run the class that way. In spite of all protest, Nineteen Hundred and One showed us how football ought to be played; but it fell with a sickening thud when the cane rush was mentioned. If the historian is not greatly mistaken, it was in November, 1897, that *The Tech* published a joke with a point to it, causing a sensational rumor that the President had ordered the issue suppressed. The rumor, however, proved to be entirely false, and nearly the whole issue may still be obtained at the *Tech* office.

Life at the Institute was so blasted by this incident that no excitement to enliven the regular humdrum of student existence took place until the spring, when the Board of Editors of *TECHNIQUE* were elected; not by the Electoral Committee, as is generally the case, but by Oom Paul Brooks,

whose ruddy face was ever turned toward the chair of Editor in Chief. Unfortunately for Oom Paul he was not large enough to fill the chair, which was found to have been made expressly for Dan Stewart.

When Oom Paul's tricks had been brought to light Doc. Tyler took a hand in the game, and played the ace of trumps by springing the final exams, through which some did and others didn't. Anyway, only the cream returned in the fall to see how much "Lengthy" Stone had grown under the influence of the summer sun. No; "Lengthy" hadn't shrunk any more in height than had M. W. Hall's opinion of his own omnipotence; they were both at the high-water mark.

Back we were, Juniors in name if in nothing else. It counted with our respective families, which was one point scored.

Heinie Rapp was promptly elected President of the class, on the platform of the usual increase in the class debt, with C. M. Leonard holding the key to the sand bank to see that Heinie lived up to the party plank.

Both Heinie and C. M. realized the prestige that the debt gave to the class; so, putting their heads together, they decided to give the Musical Organizations a helping hand by allowing them to give a concert, the primary object of which was to get an audience, and the secondary to propitiate the class creditors. It worked well, and the rough weather was tided over until the issue of *TECHNIQUE* brought the class again before the public at its true worth. The book, judging from the secluded leisure in which Belknap spent the summer, was a great success, and had a large number of appreciative readers.

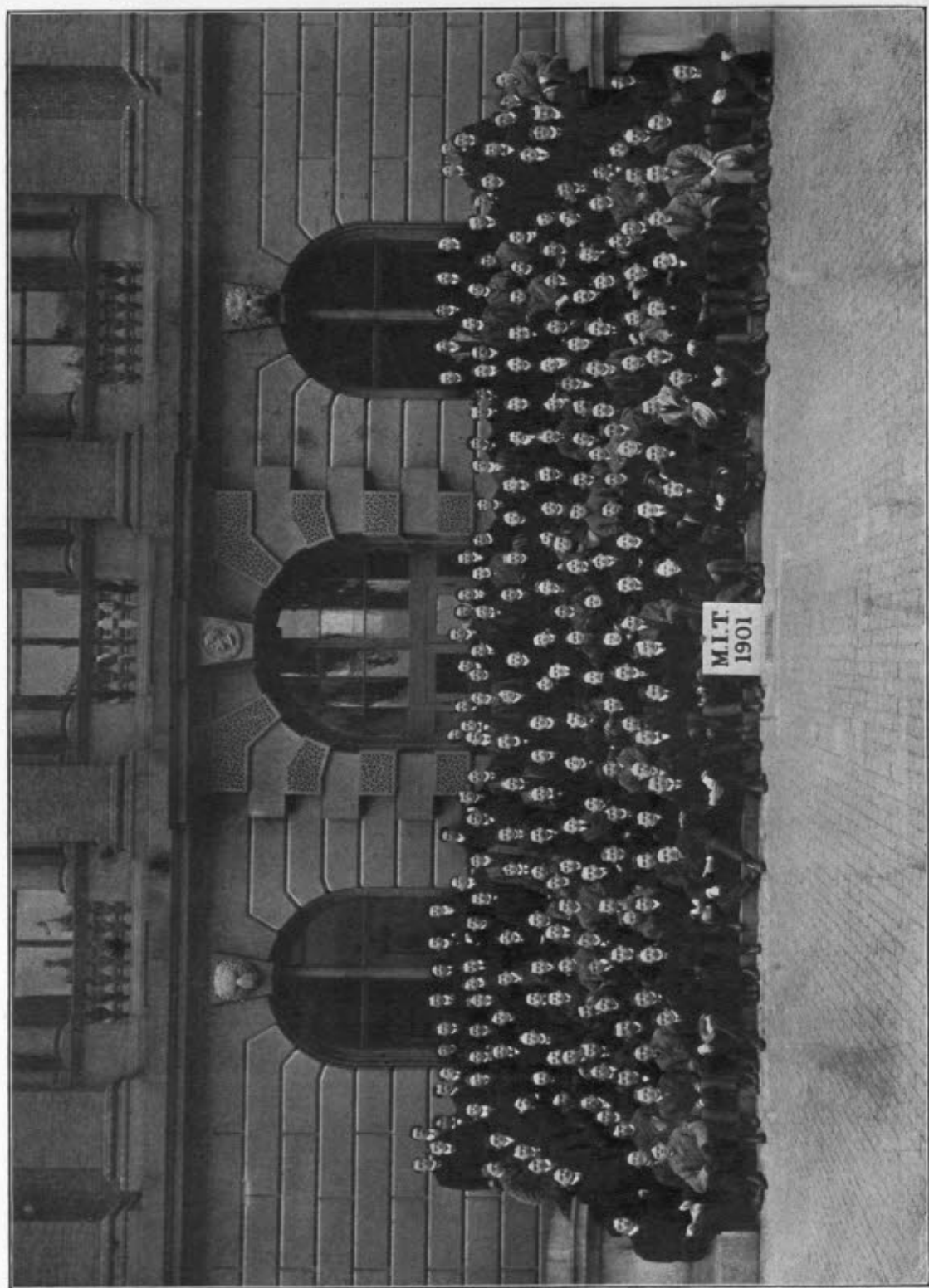
Junior Week was only too soon over, but not so with the exams; they seemed to be interminable, and were likened by the heartless ones to Professor Sedgwick's flow of words. Yet, unlike them, the exams did finally end, as did the summer vacation. October brought back to the Institute the few sturdy veterans who had survived the past three years' campaign.

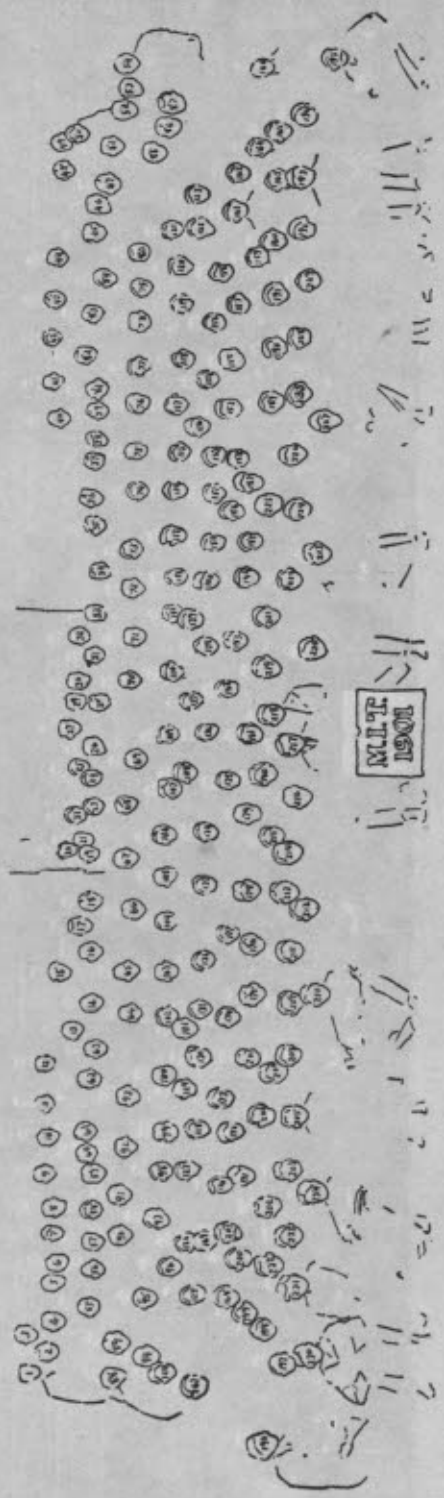
Seniors, we, ready and willing to take up the fight once more, in spite of the awful prospect of listening to Getty drool over two terms of "applied." This course, however, had an added zest given to it by Honk Mead's talk on Short Streets, delivered under the auspices of Toastmaster Van and his motley crew.

We continued to excel, as in former years; and we gave a chance to *The Tech* for an exhibition sale for a Nineteen Hundred class number. We attended the semiannual coaching party in "applied," and gave points to the world on the latest methods of automatic presidential nominations. We disapproved of the Freshmen's capers, through our President, and in general prepared to make peace with the Secretary, in view of the coming ceremonies of early June.

When June comes, and with it our last college day* and the President's last gift to us, our diplomas, we shall step forward and out into a new field; and then we shall feel ourselves Tech. men in the fullest and proudest sense of the term. It is not an easy world into which we are to be introduced; we know that, and we know that a good many knocks are awaiting us there. But we know, too, that we have been given the finest fitting for our life cruise; and we shall receive our successes as natural, and our failures as inevitable. Through all, we will often look back upon old M. I. T. and wish her, with our heartiest, deepest wish, all the success that the future can bring her; and if especially good fortune await, as it should, the coming of our class,—the class which is to close the century,—that good fortune will have come from our Alma Mater, and to our Alma Mater we should see that it is made to return.







KEY TO CLASS PHOTOGRAPH.—Names in Numerical Order.

1 Ober, J. E.	174 Walcott, W. W.	341 Williams, L. E.	605 Miller, L. F.
2 Hudson, H. N.	175 Seaver, E. Jr.	342 Higgins, F. W.	606 Campbell, A. B.
3 Farnum, W. T.	176 Proulx, E. J.	133 Madero, A.	607 McCann, J. F.
4 McNiel, A. L.	177 Taylor, W. C.	134 Greta, G. T.	608 Doolley, F. G.
5 Miller, L. F.	178 Hodgdon, H. A.	135 Lundin, Miss L. M.	609 Clapp, F. W.
6 Campbell, A. B.	179 Moore, P. W.	136 Gray, Miss Greta.	610 Doyle, J. Jr.
7 Lawrence, E. F.	180 Wildes, W. G.	137 Peters, R. L.	611 Foljambe, E. S.
8 Appleton, W. C.	181 Hilken, P. G. L.	138 McDonald, H. P.	612 Horne, L. W.
9 Puckey, F. W.	182 Harter, E. C.	139 Halsey, D. F.	613 Robins, E. T.
10 Appleton, W. C.	183 Wood, H. B.	140 Murrey, R.	614 Richey, A. E.
11 Shivers, C. H.	184 Hyde, A. T.	141 Raab, F. D.	615 Monaghan, J. F.
12 White, R. Jr.	185 McBurney, H.	142 Sexton, F. H.	616 Putnam, J. R.
13 Sayward, W. J.	186 Arnold, A. H. B.	143 Hirt, J. H.	617 Wilson, A. H.
14 Kelley, W. G.	187 Holmes, W. F.	144 Egger, F. J.	618 Taft, T. H.
15 Trenholme, A. K.	188 Aldrich, W. T.	145 Sammet, G. V.	619 Stockman, R. E.
16 Davis, W. P.	189 Kennedy, H. H.	146 Daloz, L. E.	620 Simonds, O. S.
17 Nims, L. A.	190 Sweetser, W. J.	147 Dubois, N. A.	621 Marcus, R. E.
18 Wilder, L. B.	191 Woodson, J. C.	148 Persons, A. C.	622 Starns, R. H.
19 Desloge, F. V.	192 Rowe, A. W.	149 Morton, W. W.	623 Thurlow, L. R.
20 Parke, J. H.	193 Albinson, C.	150 Potter, P. A.	624 Thurlow, L. R.
21 Philbrick, L. E.	194 Weil, A. L.	151 Ordway, D. L.	625 Nutter, H. G.
22 Cadet, C. W.	195 Laws, J. B.	152 Robinson, A. C.	626 Wilson, G. T.
23 Cadet, C. W.	196 Ritchie, A. E.	153 Bailey, R. W.	627 Davis, H. H.
24 Sulzer, A. F.	197 Dodge, L. E.	154 Wood, H. L.	628 Maxson, H. W.
25 Scully, T. Jr.	198 McIntyre, F. W.	155 Lincoln, C. T.	629 Florshiem, L. S.
26 Mitchell, F. K.	199 Adams, C. W.	156 Webster, F. B.	170 Danforth, N. L.
27 Jewett, A. C.	200 Derby, R. H.	157 Starns, R. H.	
28 Shute, G. P.	201 Koch, H. C.	158 Nutter, H. G.	
29 Hennrich, L. H.	202 Parascos, G. T.	159 Davis, H. H.	
30 Denison, C. H.	203 Thatcher, E. G.	160 Maxson, H. W.	
31 Miller, B.	204 Adams, C. W.	161 Bailey, R. W.	
32 Crittenden, P. L.	205 Auer, C. I.	162 Wood, H. L.	
		163 Lincoln, C. T.	
		164 Webster, F. B.	
		165 Starns, R. H.	
		166 Thurlow, L. R.	
		167 Nutter, H. G.	
		168 Wilson, G. T.	
		169 Davis, H. H.	
		170 Maxson, H. W.	
		171 Florshiem, L. S.	
		172 Danforth, N. L.	

KEY TO CLASS PHOTOGRAPH.—Names in Alphabetical Order.

Adams, C. W.	46 Chambers, H. W.	47 du Pont, L.	75 Horne, L. W.	133 Madero, A.	21 Philbrick, J. E.	104 Sturtevant, W.
233 Albiston, C.	62 Chandler, H. T.	153 Eager, F. J.	88 Hounsheld, L. D.	197 Madero, E.	193 Player, P.	207 Suero, W. G.
234 Albinson, C.	92 Chandler, S. D.	117 Eveland, A. J.	2 Hudson, H. N.	609 Mahat, J. J.	190 Potter, P. A.	204 Sulzer, A. F.
235 Aldrich, W. T.	98 Chubb, C. N.	233 Farnum, W.	214 Hyde, A. T.	115 Marsh, H. C.	174 Proulx, E. J.	220 Sweetzer, W. J.
236 Allen, H. V.	45 Chubb, C. N.	302 Fischer, A. L.	134 Hyde, G. T.	166 Marsh, G. E.	170 Puckey, F. W.	112 Taft, T. H.
237 Appleton, W. C.	80 Church, E. F., Jr.	85 Fleming, E. P.	123 Isham, A. K.	64 Martin, C. E.	110 Putnam, J. R.	87 Taylor, A. J.
238 Arnold, A. H. B.	43 Cladlin, F. W.	57 Flint, C. R.	47 Jewett, A. C.	206 Maxson, L. W.	150 Rash, F. D.	175 Taylor, W. C. G.
239 Arsem, W. C.	71 Clapp, F. G.	70 Florshelm, L. S.	14 Kelley, W. G.	169 Maxson, L. W.	37 Read, W. M.	234 Thatcher, E. G.
240 Bacon, C. I.	121 Clark, G. A.	74 Follisheim, E. S.	219 Kennedy, H. H.	204 Millar, L. W.	77 Rice, W. M.	103 Thurlow, L. R. K.
241 Bailey, R. W.	68 Clark, A. E.	92 Folsom, M. B.	5 Kileves, A. L.	31 Miller, B.	226 Robb, A. E.	135 Tentholme, A. K.
242 Bass, F. H.	45 Colby, F. A.	66 Foster, M. B.	200 Knot, K. H.	6 Miller, L. F.	76 Robbins, A. E.	38 Trafts, C. G.
243 Baxter, F. K., Jr.	32 Crittenden, P. L.	111 Freeman, F. W.	31 Koch, H. G.	96 Mitchell, F. K.	158 Robinson, R. C.	172 Walcott, W. W.
244 Beckford, W. L.	32 Cross, F. C.	132 Gallup, Miss A. B.	137 Lane, W. T.	93 Mitchell, G. L.	103 Ross, J. A.	103 Webster, F. B.
245 Belcher, E. B.	44 Culp, C. M.	116 Garrett, W. W.	133 Lange, T. F.	99 Monaghan, J. F.	103 Weil, A. L. W.	189 Welch, A. W.
246 Bigelow, L. H.	210 Curtis, W. M.	239 Gray, Greta.	80 Lane, F. G.	101 Montgomery, R. J.	284 Whipple, W.	184 Whipple, W.
247 Blanchard, H. T.	155 Daloz, L. E.	130 Gray, Greta.	84 Lawrence, E. F.	178 Moore, P. W.	50 St. Clair, S. W.	119 White, R. R.
248 Bond, F. H., Jr.	91 Danforth, N. L.	83 Gustafson, G. E.	225 Laws, J. B.	183 Morse, J. R.	154 Sammet, G. V.	112 White, R. R., Jr.
249 Booth, A. R. C.	99 Darl, H. E.	303 Haunzel, B. F. C.	102 Lincoln, C. T.	188 Morton, R. B.	153 Sayward, W. J.	125 Whitman, R. A.
250 Boyd, J. Jr.	97 Davidson, W. F.	140 Haley, D. F.	33 Little, A.	108 Murray, R.	153 Scully, J. T.	125 Whitman, R. A.
251 Boyle, J. Jr.	49 Davis, A. C.	211 Harper, E. C.	39 Littlefield, R. S.	104 Newlin, W. J.	173 Seaver, E., Jr.	182 Wight, R. W.
252 Briggs, J. P.	201 Davis, E. H.	185 Hazlewood, S.	132 Loring, R. S.	17 Nims, L. A.	151 Sexton, F. H.	182 Wight, R. W.
253 Bronson, J. S.	168 Davis, H. H.	35 Hazlewood, S.	54 Lunan, T. M.	208 Nutter, A. D.	11 Shivers, C. H.	182 Wight, R. W.
254 Brush, M. C.	16 Davis, W. P.	35 Healey, H. R.	135 Lundin, L. H.	106 Nutter, H. G.	18 Shute, G. P.	179 Willard, C. F.
	30 Dennison, C. H.	209 Henrich, L. R.	115 McBurney, H. M.	1 Ober, J. E.	113 Simonds, R. E.	181 Willard, C. F.
	230 Derby, R. H.	312 Higgins, A. W.	135 McDonald, A. B.	183 Skene, N. L.	105 Spear, G. M.	135 Williams, R. L.
	51 Derby, R. M.	131 Hildreth, H. E.	69 McDonald, H. P.	242 Parascos, G. T.	105 Spear, G. M.	138 Williams, R. L.
	19 Desloge, F. E.	180 Hilken, P. G. L.	70 McGann, J. F.	20 Parke, J. L.	82 Smith, F. A.	111 Wilson, A. H.
	227 Dodge, J. E.	152 Hirt, J. H. H. A.	285 McInnes, A. W.	107 Parrock, P. H.	102 Stadler, L. A.	167 Wilson, G. T.
	72 Dool, W. W. H.	176 Hodgdon, F. W.	151 McInnes, A. W.	106 Perry, A. H. Jr.	164 Stearns, R. H.	212 Wood, H. B.
	48 Dowe, W. W.	98 Hodge, M. W.	41 McNeil, Grace	157 Peters, A. W.	114 Stearns, R. O.	161 Wood, H. B.
	55 Driscoll, F. B.	60 Holford, W. G.	137 McNeil, H.	203 Stone, S. J., Jr.	114 Stockman, O. S.	34 Wood, L. P.
	166 Dubois, N. A.	217 Holmes, V. F.	136 Mace, C. A.	180 Peterson, G. C.	124 Slover, C. C.	221 Woodsome, J. C.
	95 Dulude, F. J.					

The Junior



CLASS OF 1901.

"A most cosmopolitan people:—and every one a star."

OFFICERS.

President.

VALDEMAR FRANK HOLMES.

First Vice President.

RAY MURRAY.

Second Vice President.

EDWARD SEAVER, JR.

Secretary.

FRANCIS WILLARD PUCKEY.

Treasurer.

ALLAN WINTER ROWE.

Directors.

WILLIAM WRIGHT WALCOTT.

OLIVER HAZARD PERRY, JR.

INSTITUTE COMMITTEE.

EDWARD GORDON THATCHER.

WILLIAM WHIPPLE.

JUNIOR CLASS CHRONICLE.



HISTORY," says one who is popularly supposed to know what he is writing about, "is little else than a picture of human crimes and misfortunes." This statement explains at once why the other classes have "histories" in this book, while we can boast only of a "chronicle." Not having been through the usual gamut of "human crimes and misfortunes" common to classes less gifted and less favored than ours, we can aspire only to a *narrative* of our class's career, not to its *history*. The history of the Senior Class will be seen to be *nothing* else than a picture of human crimes and misfortunes; that of the Freshman Class to be a picture of *super* and *in*-human crimes and misfortunes; while that of the Sophomores is, practically, nothing at all. From such a trinity as this it is fitting that the story of the Class of Nineteen Hundred and One should be kept far aloof. Whence "it will be readily seen" that this account is the *chronicle*, neither more nor less, of the Juniors of Technology, the favored Class of Nineteen Hundred and One.

Nearly three years ago a motley crowd of farmers, politicians, Sunday-school teachers, conditioned Harvard men, and the choicest products of the neighboring preparatory schools, known to the police as the Class of Nineteen Hundred and One, descended upon dignified Boston and the quiet Institute. Then Harry Tyler's trials began in earnest. To transform this wild gang by a physical or chemical change into a respectable collection of mechanics, chemists, or even architects, without letting too many men fall by the wayside or go Course LX-wards, would have floored a greater man than Dewey; and yet Harry T. undertook the job with no more concern than Hilkin ordinarily shows when he tackles a Frankfurter.

Within a week after our arrival everything was in running order. Weil and Whipple were attending their nine o'clocks promptly at 9.25; Ritchie was proving the value of his philosophy of the back seat; Rowe was exercising his visage like the silver-tongued orator himself; and at lectures half

the class began to be more than less conspicuous by their absence. Marcus and Catlin, world-famous reformers, reawakened interest in our beloved chapel; and our Y. M. C. A. members brought the good old co-operative method of passing examinations back from the decline into which it had been slowly falling.

Naughty-One began its glorious athletic career in the football game with Nineteen Hundred. It was an exciting contest. Everything was going against us; the ball was within three yards of our goal and only two minutes were left to play, when somebody exhibited a keg of Milwaukee back of the Nineteen Hundred goal. Laws saw the bait, and, forgetting all about the game, came down the field at a two-thirty gait, drawing all the team along in the vacuum created in his wake. Oppenheim, of Nineteen Hundred, fumbled the ball, and somehow or other it fell into Cupid's possession. It came down the field with the whole corporation, and when Laws dropped on the prize he also touched the ball down for five points. Maxson had been kicking like a grind all through the game, and he had no trouble now in kicking a goal for an extra point; and the score was made six to nothing, to be handed down to posterity. Nineteen Hundred managed to get the best score in the cane rush by persuading most of our men to stop when the pistol fired; but in the little side scraps we made Nineteen Hundred literally masticate the clod. About this time Rowe decided to become treasurer. St. Clair also needed the money in his business; and Rowe decided to have his rival put out of the way. Laws was recommended as a capable instrument for this purpose, and everything would have been all right but for a grievous misunderstanding. The fat man mistook President Crafts for St. Clair, and before Rowe could notify him of his error the chief executive was subjected to a pressure of one hundred pounds to the square inch, and sent flying toward the Bursar's office with a velocity calculated to mash Albert M. to a pulp. Had the cage not prevented the collision, the Institute would have been without President or Bursar. Laws had a beautiful time until Rowe told him of the wrong connection, and even Harry T., who was one of the President's heaviest backers, gave Laws a written recommendation as a good scrapper. This document was duly indorsed by President Crafts, and is called in scientific parlance "a probation."

Freshman drill has had different effects on different classes; but by all odds the worst thing it ever did was to drive a lot of Nineteen Hundred and One men to try their luck in musical pursuits. It certainly was a pathetic sight to see Bronson and Jeffords, black in the face, blowing away at their bugles, and producing only a spurt every now and then which might be compared to the spasmodic reflexes of a vivisected frog. Once we feared

they would blow their brains out; but better acquaintance with the men reassured us on that point.

Bugling only led to worse, and before long Nineteen Hundred and One had candidates out for the Banjo and Mandolin players, and even for the ironically named "Glee" club. Every man in the class whose voice sounded as well as R. L. Williams blowing on the edge of a piece of paper in a Physics lecture, went into this club; and when Brush, Freeman and Davis joined the force it sounded like a distant machine shop in full blast.

From tune the class's fancy lightly turned to thoughts of love. Having been made enthusiastic by Charlie Cross's lectures on sound, Seaver was discovered trying—not wholly in vain—to demonstrate to "a—friend" that an osculatory concussion would make a gas flame flicker. During this experiment in the interests of scientific investigation the sympathetic vibration from the contact which was formed actually put the gas out; and tradition tells that a smothered though decidedly feminine voice was almost heard to say, "Let's flicker some more."

Introductory mention should be made of the home run that Florsheim made one memorable night pursued by an irate papa, in order that due credit should be given to his good work in managing Nineteen Hundred and One baseball team. The way Wood whitewashed Nineteen Hundred and Nineteen Hundred and Two showed that he would have made an approved member of the War Investigating Committee.

In our Sophomore year the class did not conform to the constitution, and the constitution was accordingly made to fit the class. Danforth was elected president, and at once set to work on his greatest work, entitled "How I Became Famous," or "The Little W. J. Bryan,"—a work destined to live long after the author's name has been sucked into the whirlpool of obscurity.

The genius in a class like Nineteen Hundred and One cannot long remain dormant, and it cropped out in our Sophomore year in a dramatic epidemic, in which our class supported the Walker Club Play and the Minstrel Show. Some of the more histrionic of our number journeyed far to the West, and carried the reputation of Nineteen Hundred and One into the delicious precincts of feminine Northampton. Another spasm of exceptional ability brought the class of Nineteen Hundred and One again into the public eye at about this time. Due to the advice, assistance, brains, a very interesting advertisement for the Nineteen Hundred and One TECHNIQUE was created and widely distributed about the Institute. It excited some considerable interest for a short time, and evoked a few words of praise from almost everybody concerned in it. The advertisement appeared in book form, and was entitled, "TECHNIQUE, NINETEEN HUNDRED." A

rapid sequence of events brought about the election of the present TECHNIQUE Board shortly after; and the class, realizing calmly that the worst was done, turned its attention to the final examinations. Appropriate resolutions were drawn up for the victims of these, and the Class separated.

This year we elected Holmes our president, and forthwith prepared to receive Dewey in proper style. We did. The outcome was the "Terrible Fray" in front of the Touraine. This the Boston *Herald* described vividly and truthfully as a goreful affair, in which "spectators were trampled under foot, glass hacks held up, a squad of police routed, and finally one man captured and the rest put to flight."

One of the most sensational scenes which the class witnessed occurred at a January meeting, when Bronson got up, amidst tremendous applause from all and admiring glances from the Co-eds, and stated that he did not think dress suits were needed for the class dinner. He supported his statement with a flowery speech, ending finally in a peroration to the effect that he, for one, would wear overalls or nothing! The motion adopting these sentiments was passed, and overalls at the dinner were quite *pomme de terre*. Speaking of cabbages,—a word more about Jack. Possibly it is not known how he won his place in Co-ed worship. Attending Arlo's lecture in English last year with a lot of raisins, he passed them around among the tender listeners near him. One of the Co-eds then remarked that Jack was a good deal like a raisin anyhow—sweet, and likely to swell. If she had seen him at the class dinner, absorbing the grape at \$2 per bottle and swelling under the influence, she would have realized that many a true word was spoken in jest.

Last, but not least, in our class events, was the taking of our class picture. We turned out, with Corporal Bailey,—the legacy left from one Junior class to another,—with all our Co-eds, and in their midst Aldrich, their new idol. After five attempts, a picture took the class; repeated attempts have since been made to get the class to take the picture. The number of sports we have accumulated in our three years is great, and one may recognize in the picture fifty per cent of the Kentucky politicians and East Boston aldermen of the next half century.

In a little over a month, Nineteen Hundred and One will be the Senior Class of Technology. Then we shall have the chance to set our own pace and be a guiding light to the under classmen. Our places as Juniors can never be satisfactorily refilled, it is true; but our places as Seniors could never be more opportunely taken, and in no other way can they become so soon vacant again. So let us move onward; and as we progress, let us realize that in our advance the Institute is taking its surest and quickest course toward the acme of fame that awaits Technology and the Class of Nineteen Hundred and One.

THE SOPHOMORE



CLASS OF 1902.

"We are such stuff as dreams are made on."

OFFICERS.

President.

HAROLD OTIS BOSWORTH.

First Vice President.

CHARLES ADRIAN SAWYER, JR.

Second Vice President.

GRANT STERNE TAYLOR.

Secretary.

CHARLES WHITMORE KELLOGG, JR.

Treasurer.

KENT TILLINGHAST STOW.

Directors.

JOHN CLYDE FRUIT.

PAUL HANSEN.

INSTITUTE COMMITTEE.

I. RAYNE ADAMS.

REDFIELD PROCTOR, JR.

SOPHOMORE CLASS HISTORY.



TRUSTFULLY, on Rogers steps one fine September morning in 1898 we—a confused group of innocent youths—stood looking anxiously at the building into which we were to make our fateful entrance. Nine o'clock was approaching, so we made our way into the corridor, and there were met by the Y. M. C. A. men and given “a welcome” and memorandum books. Upon our entrance we discovered that great preparations had been made for our reception by the Administrative Board of the Institute. The buildings were repaired and strengthened, the office of the Secretary was removed to a place of greater safety, a general sleeping apartment was provided in the Rogers Building, and the corridor was cleared for action.

The arrival of the class, although not appreciated by a body of individuals called “Sophs,” was a signal for the appearance of most intricate and mazy journals from the office of the “Secretary.” We were told to learn the bulletin and to keep its contents on tap; and then, after we had done so, we were told that we should hand in attendance cards not later than the day before. Following each other around, we picked up Attendance Cards, Section Slips, Petition Blanks, and general information regarding the Institute and the Co-operative Society. Having got moderately at home in the preliminary course of *Tabular View* Engineering, we spent the remainder of the first day in purchasing books, padlocks, and what purported to be good advice. After a day or two our work was running smoothly; and we were in a condition really to feel our importance when the President formally addressed us as THE CLASS OF NINETEEN HUNDRED AND TWO. Did he appreciate that another class of '02 would not occur for one hundred years? We did.

The President spoke of the necessity of our taking exercise with our work; and in order that his precepts should be carried out, the room schedule was so arranged that the men had to do a dash from the top of

the Engineering Building down and up to Freehand Charlie in something less than three minutes. In order to make the return trip, some tried to slide down the banister in Rogers; this, however, was seldom indulged in more than once.

We were greatly incensed by the stand that a certain Linus took toward our class. He treated us like robbers,—to put it mildly,—and said that “anyone who tried to put in his work as the work of another would be severely dealt with.” He turned around, however, at the end of the period, and tried to rob us of fifty cents each for a lock on our desk.

Presumably, we learned something during the first year of our life at Tech, but the historian, in company with most of his classmates, has forgotten it. Taylor has forgotten the stars he didn’t get on his report, by reason of the “primary mass” of his “Uniform Motion Chain”; and Lockett, when asked the other day about a Trig. formula, had no recollection of ever having taken such study.

The stirring events of the first term, however, will never be forgotten. It was just after the Spanish War, when Rough Riders were quoted at 208, and the “Strenuous Life” was a novelty. We had our share in allopathic doses, and practiced the gentle art of war by projecting intruding Sophs, who had ventured into our class meetings, far below the ground line of the second floor.

The Battle of San Juan was reproduced later at our class election. Rogers corridor was not a safe place for meditation on that day, especially for members of the Faculty. The wreckage gave ample evidence of the explosion that had taken place, and both classes suffered—Nineteen Hundred and One, physically and financially, and Nineteen Hundred and Two, constitutionally. Our revered President took our side, but he was powerless to prevent the Secretary of the Beard from putting his ban on our class. We had to say that we were sorry we had been attacked, and that the idiotic Sophs would not do so again.

The Sophomores, too, had reason to remember the occurrence. Several of them were suspended; and more would have been had not the supply of rope given out.

We had a more formal battle at the South End Grounds, when we white-washed our opponents at football, and also won the cane rush. The latter event was, of course, decided against us, but this was not surprising; so mature did our men appear when the counting of hands took place that the referee could not be convinced that the men had not been in the Institute at least two years. Some of them had, but that didn’t make them Sophomores.

Naturally, so warlike a class as we had proved ourselves to be should have a unique military career. Many classes have been drilled by officers

who afterwards became famous; but never before was any class fortunate in being under a leader who so quickly and so peculiarly achieved fame as did our gallant captain. Our own appearance, too, had something to do with our Cadet reputation. The vain ones among us still remember how martial we looked in our second-hand uniforms; especially was this true of Morse, who was more than once mistaken for a messenger boy.

The crowning glory of the whole, however, was the picked squad, under Not-even-might-have-been Major Hervey. At the minstrel show, the squad gave an exhibition of its military proficiency, following with a mock drill. Had not the audience unfortunately mistaken one for the other in the beginning, that appearance would have established a military record for Nineteen Hundred and Two that would have stood until this age had become "time immemorial." In spite of that, however, we gave a competitive exhibition drill that proved a bonanza for *The Tech*, if nothing more. That enterprising periodical,—with the exception of the regular see-me-at-once cards, the most enterprising weekly publication of the Institute,—started up a controversy on the subject that kept them oversupplied with copy for several weeks. But the Lounger was with us; so was the Secretary; and we won.

Our first Class Dinner was the largest that had ever been held by any class, and, of course, it was a very successful affair. Not so, however, was the case in the instance of the final examinations. Many subjects had been carried along on the principle that "'tis fitter much for you to guess than for me to explain"; and when the day of judgment came we were found decidedly wanting. We had to hustle to get through well enough to be entitled to reinstatement. Some of us failed to hustle enough; all of us might have hustled more. In course of time we got over the examinations; and this year we are trying to get over the marks. Uncle Linus, who had spent the whole second term in putting boards and rods in such a position that he could see them, and we couldn't, giving us the impression of "a vision of co-ordinate planes, triangles and T squares, all revolving at a high rate of speed into H.," now completed the ruin by putting his initials after the subject on most of our reports.

The account for the second year of our class was lost, our secretary having been carried away by a fit of patriotism for the contending armies in South Africa. Such of his papers as are left to us, we will present as the original records for our Sophomore year.

The year of our second entrance into Tekke, we trekked our way back again into the Rogers Tabernacle, and found that the Sekretarje had caused iron defenses to be erected on the front steppes, and that barbed wire entanglements were next in order. The commando of Nineteen Hundred

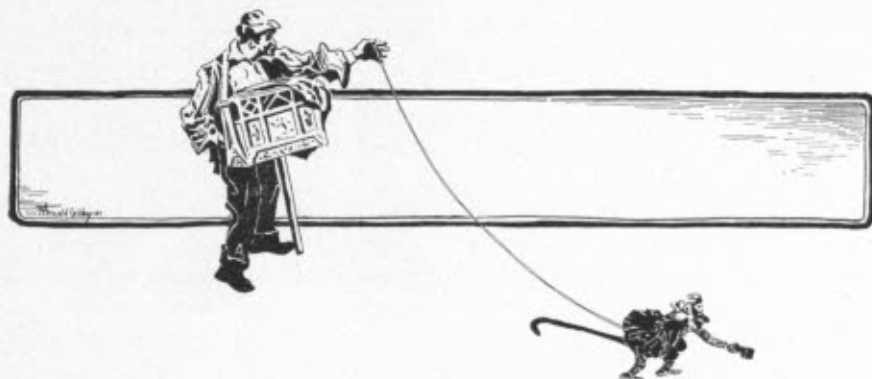
and Two was once more in possession of Rogerskop, and they were also in goodly numbers at the laager at Chapelsprint. There was a new commando on the field, called the 1903d, but they were insignificant, and we let them romp at will over Boylston and Copley Veldt. A new women's laager had been formed at Pjercebuildjng, when the women were taught the kind of mechanism that worked Sodafontein. Three times a week we had to go to Walkerskop to hear Charlie Crosje talk about a medieval torture, now called Physjks. The sight of the agony of the lecturer's lieutenant, whose acidulated expression, dreamy eyes and red socks gave a feeling of sympathetic laceration, was the chief cruelty of the course.

Every week the Engineer section of 1902 commando made a sortie to Klarendonkopje with an armored train. No casualties were reported until after the conflict at the Semi-annual examinations. In this contest, so many blue books were used that the Bursar got into another of his waking spasms.

Our commando had a monotonous skirmish with the 1903 commando at Baseball-Veldt, and of this the principal point was that Hooker either kicked or missed the goal. The score was computed by logarithms, and they juggled the mantissas and threw us out. In the Rush it was different, for very few of our men were to be seen anywhere except where they belonged, on the cane. The 1903 commando was unskilled in such warfare, and some of them trekked their way down Columbus Pass in barrels. We did not enter the pole-climbing contest; we didn't need to do so, for it was as unassailable as a physics demonstration. Such an overwhelming victory has not been recorded since Manila.

Other victories have followed. Our commando is now in charge and possession of *The Tech*; it is also preparing to make a victorious onslaught on *TECHNIQUE*. A little later the supply of diplomas will be our objective point, and then —

[The manuscript is here brought to an abrupt close; the burghers (Cape Dutch for "Lobsters") need all available paper for cartridge wadding.]



The Freshman



CLASS OF 1903.

"Ah, tell them they are men."

OFFICERS.

President.

RICHARD MANNING FIELD.

First Vice President.

LAWRENCE HARGREAVE LEE.

Second Vice President.

JOHN TYRELL CHENEY.

Secretary.

EDWARD WINCHESTER HOWELL.

Treasurer.

CHARLES JEWELL MCINTOSH.

Directors.

HENRY THORNTON WINCHESTER.

FRANK GILBERT BABCOCK.

INSTITUTE COMMITTEE.

F. W. DAVIS.

L. H. UNDERWOOD.

FRESHMEN CLASS HISTORY.



AN extraordinary day was September 27, 1899. Then it was that we, the CLASS OF NINETEEN HUNDRED AND THREE, the largest class that has yet entered the Institute, began our famous career. Famous our career has been, and largely on account of the infamous deeds charged against us. First among these charges was that of slow organization. This we cannot deny, nor would we if we could. It is well known that all strictly high-class mills "grind slowly, though they grind exceeding small." And in our case, though they did not grind an exceeding small class, they certainly did turn out a class with an exceeding small number of grinds.

Another charge made against us was that we did not have trouble enough at our meetings and elections with the Sophs. This is alarmingly true, but for that we are not at all to blame. Trouble we were perfectly willing to have, but the Sophs failed to provide it for us. They realized our might; discretion to them was supersaturated valor, and they stayed away, saving their strength for the football game and cane rush.

The result of the football game is unimportant. We simply let the Sophomores win because they showed that they wanted to do so; and, besides, they had the better team. The cane rush was a defeat, though of another kind; it was the third of the infamous deeds of which we were accused. This defeat we confess having suffered, but solely through generosity and brotherly love. When the referee's whistle blew the signal to stop, we had an overwhelming majority of hands on the cane; but the referee thought it better to keep up the custom and award the victory to the Sophs. The poor Nineteen Twos had not yet won a single rush, and our hearts went out to them. Accordingly, when the whistle was heard, we stepped quietly away from the cane, letting enough Sophs replace us to turn the tide of victory. Our reward is yet to come.

And now we come to the fiercest part of our short history; viz., Military Science. The troubles connected with this make the fourth and last of the series of infamous events. Even the newspapers published lengthy accounts of our heroic contentions. The real trouble was that we were not understood. We asked for bread and they gave us a stone: we requested a smile, they turned to us the marble heart. Things started wrong. At first we simply bubbled over with enthusiasm and appreciation of our revered Lieutenant. We lost no chance to applaud his exhilarating lectures; but once we were so unfortunate as to resort to stamping our feet. This feat the modest instructor, for some reason, could not regard as applause,—rather as the reverse. We were compelled to redouble our enthusiasm to convince him of our true attitude. So eager were we to show our exuberance of loyalty to him that we continued our demonstrations at every lecture; till finally the Lieutenant, evidently convinced of his popularity, favored the class by dismissing them from the lecture. The poor officer must have been somewhat upset by our esteem for him, for in the next few lectures he experienced some considerable difficulty in expressing his thoughts. This trouble we speedily remedied by engaging a pretty young lady, in the capacity of class stenographer, to be present at the lectures and work a fascination spell over the hard-laboring Lieutenant. Two doses of this medicine filled the bill, and our stenographer had to come no more; but before she left us she became—thanks to our esteemed Class Secretary—an honorary member of Nineteen Hundred and Three. The curious thing about this incident is that it took the careful Secretary something over two hours to explain the constitution to this new signer; yet she didn't seem especially obtuse.

At drill, too, our enthusiasm was equally great. We liked nothing better than to cheer the Lieutenant, as he paraded in his neatly fitting uniform. We also considerably agreed with him in his choice for Chief Supervisor of Squad Drill and Captain of the Battalion. Upon the choice we conferred titles and many choice epithets. For Bridges was an honorable man.

Our consideration of the Lieutenant placed him higher and higher. So high did our estimation place him, indeed, that one drill day he got caught on the lamp over the armory door. Not until his more active though less intellectual double arrived was he cut down. This testimonial of our adoration drew forth the wonder of several upper classmen; and to save our instructor from the hands of the curious mob we were obliged to lock him in the armory. Later in the year some of the class passed resolutions of repentance and self-absolution, and promised to continue to be sorry and never to do it, or anything even remotely like it, ever again. These were

fired at the Lieutenant, and he smilingly decided to continue his lectures. The resolutionists felt pale; not until then did they thoroughly appreciate that the Lieutenant could not take a joke.

While these military and scientific events were occurring at the rate of several to the square inch, the track athletic events were run off. Nineteen Hundred and Three distinguished herself by getting the least number of points in total, thus showing that she understood her proper position and due humility, where other classes are concerned. At the same time the Nineteen Hundred and Three strong man, Winchester, captured the greatest number of individual points, and was duly made head blacksmith of the class. Our reputation in athletics is still one of promise; and the promise is yet to be fulfilled.

Then, suddenly, a new contest fell upon and about us—the semiannual examinations. Our fortune was varied. One of us received a report as follows:—

Algebra, F.	Free-hand Drawing, P.
Trigonometry, L.	French, F.
Chemistry, FF.	Rhetoric and Composition, L.
Mechanical Drawing, L.	Military Science, FF.

Another report was sent to his parents. Shortly after he got a brief letter from his father, telling of the report, and asking, “What does this mean?” Our classmate ventured too ingenuous a construction upon the question, and wrote back as follows:—

“They mark by letters here; what they mean is this:—

F is Fine.
 FF is Fery Fine.
 L is Lovely.
 P is Pretty Good.
 C is Confoundedly Poor.

Ever your dutiful,” etc.

Unfortunately, the report in paternal possession had another interpretation printed upon it. Our fellow-victim left for home to explain the discrepancy. That was in last January. He is still explaining.

So the days passed on, while the first term came to an end. We had been in existence, collectively, only fifteen weeks, and in that brief time we had proved ourselves to be a class famous, infamous, unique.

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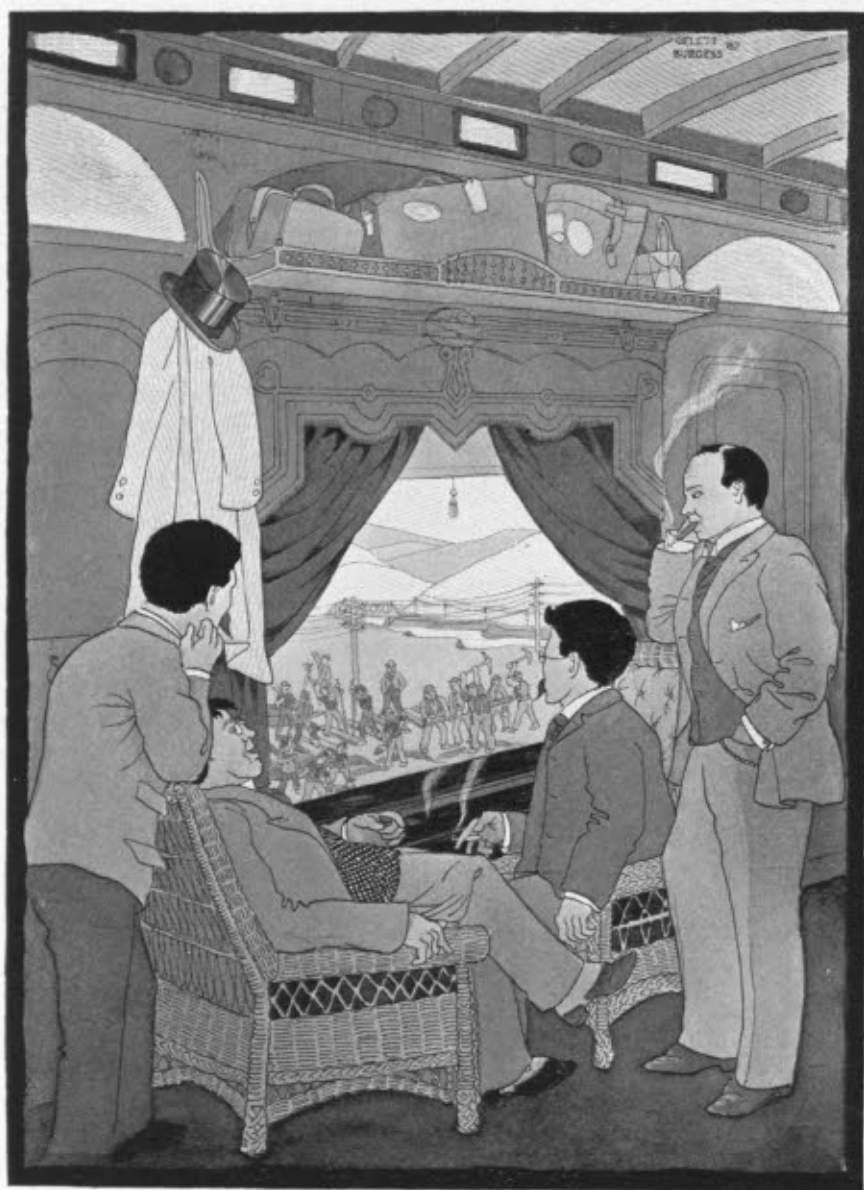
Most of us began our second term undismayed by the reports which

had been circulated and had been received by each one of us, to the effect that continued Technology existence was not advisable. Some had, it is true, fallen from the ranks; but the majority burnt their reports, looked hopefully forward and not back, and started in to try again. At first a severe blight was cast upon the Institute, so far as Nineteen Hundred and Three was concerned, by the prolonged absence of our military Bridges. He, with a subordinate officer, had gone on a fishing trip, and had not been heard of since. The faithful of the class, however, were brought back from prostration of distress by the reappearance of the individual a week after the term opened. According to accounts he had had a pretty rough time, but he was used to that after his military career in the first term. Now that Bridges was back, we were sure of progressing rapidly and making our mark in the Institute.

With renewed vigor we set to work. We drilled; we raced with Professor Currier in United States History; we held, individually, repeated conferences with the Secretary; we became on intimate terms with the Janitor; we tackled the Bursar, and tried to get a cash advance on the credit of the class; and we are now still trying. Our conduct is now exemplary—a thing which gives the historian a pang of no inconsiderable delight to record. We sit and listen rapturously while Professor Wells reads to us out of his little book; we pretend to comprehend and be happy in the mazy lectures of Linus's Descrip. "Drill" is still a word to conjure with, and we manfully refuse to conjure with it. As June draws near the rank of "Sophomore" becomes less odious to us; and we begin to appreciate, as we look far back into last October, that Freshmen were a little different from real Technology men, after all. Cheered with the thought that we are the only class bright enough to detect such a thing in itself and honest enough to admit it, we look expectantly forward to the more remote future when we shall be Juniors and Seniors and things. And as we look and dream, time passes; and our only wish is that when June comes we may pass with it.

This is our history up to date. We have had our share of usual experiences in chemistry, drawing, etc., but such things are commonplace, and cannot be mentioned here. We have our share of Co-eds also, but they too, alas, are commonplace. So, as the rhythmic ones would say,

With this our saddest thought imbued,
We most reluctantly conclude,
May greatest fame, in years to be,
Attend on NINETEEN HUNDRED THREE.



THE TECH PUSH.

A Song for the Alumni.

By GELETT BURGESS, '87.

There's a gang of guys at Cambridge, and they think they know it all;
There's a college in New Haven where they learn to push the ball, in the fall;
You may turn up at a lecture, if you've got a Friday free,
And they only say, "Come round in May and we'll give you your degree!"
 But it's the Tech that does the right work,
 It's the Tech that does the night work;
And we grind as long as we're awake, and then perhaps we fail!
 But when we're graduated
 Then we know where *we* are rated;
And we yell, "To Hell with Harvard!"
And we yell, "To Hell with Yale!"

You can lay us out in Latin, you can gravel us in Greek,
You can jolly us in Sanscrit, till I'm damned if we can speak, for a week;
In questions of Philosophy you'll find us on the fence;
All we know for sure of Literature wouldn't sell for thirty cents.
 But it's us that's got the know-how;
 And we've got the stuff to show how
To regulate Creation in a way to turn 'em pale.
 When the Wheels of Life are sticking,
 Come to us, we'll set 'em ticking;
And we'll yell, "To Hell with Harvard!"
And we'll yell, "To Hell with Yale!"

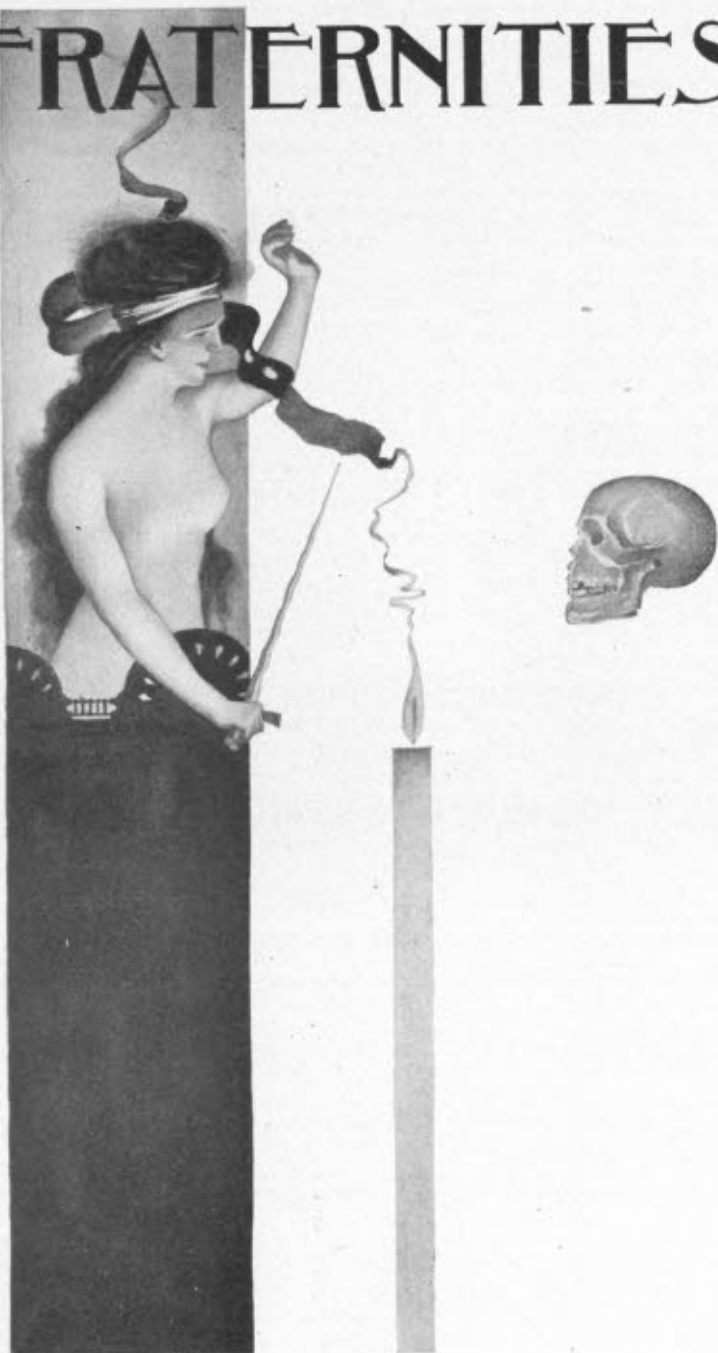
Now we weren't in love with Calculus, but still we didn't shirk;
And we swore at Conic Sections, but we finished up the work, with a jerk;
We plugged Applied Mechanics, while we called it blooming rot;
And we never knew, till the thing came true, what a fortune we had got.
 But it was the Tech that knew it,
 'Twas the Tech that made us do it;
We crammed and slaved before we shaved, and lived to tell the tale.
 And in selling off that knowledge
 We've learned how to size the college;
And we yell, "To Hell with Harvard!"
And we yell, "To Hell with Yale!"

When a man is up against it, and is rustling for a job,
Then it ain't his set in Harvard, or the whole New Haven mob, cares a cob.
He can take it out in rustling till he has to shovel dirt,
And all he knows of Spencer's prose won't buy a hard-boiled shirt.
 But it's us that's got a Tech push,
 Worth a thousand-dollar-cheque push,
And we're jolly well contented, though beyond the "classic" pale.
 Oh, they made a good beginning,
 But we play the game that's winning;
And we yell, "To Hell with Harvard!"
And we yell, "To Hell with Yale!"

If you want to gear the planets that revolve about the sun,
We can rig the shafts and belting, and we'll call it only fun, till it's done.
If you want a road to Jupiter, or a ten-foot shaft to Hell,
We've the engineers for a thousand years that can do it corking well.
 For we've learned to handle *live* things,
 And we've learned to do and drive things;
We've a hand upon the throttle and a hammer on the nail.
 Yes, our working togs *were* dirty;
 But now we're passing thirty,
We can yell, "To Hell with Harvard!"
We can yell, "To Hell with Yale!"

And we're just as good at raising kids, and swiping in the dough,
And about a million times as good at being "in the know!"
You can grind us up to atoms, and a molecule of Tech
Will set the pace for a Harvard race that will make him break his neck!
 For we've caught the modern manner,
 And we fly the modern banner,
And a "Bachelor of Science" doesn't come in at the tail;
 For when it is a question
 Of a *Practical Suggestion*,
They'll yell, "To Hell with Harvard!"
And they'll yell, "To Hell with Yale!"

FRATERNITIES



E. T. HOWES.

GREEK LETTER FRATERNITIES

AT THE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
IN THE
ORDER OF THEIR ESTABLISHMENT.

SIGMA CHI.

CHAPTER ROLL.

1855.	Gamma.	Ohio Wesleyan University	Delaware, Ohio.
1857.	Eta.	University of Mississippi	Oxford, Miss.
1858.	Lambda.	Indiana University	Bloomington, Ill.
1859.	Xi.	De Pauw University	Greencastle, Ind.
1859.	Omicron.	Dickinson College	Carlisle, Pa.
1859.	Psi.	University of Virginia	Charlottesville, Va.
1863.	Alpha Chi.	Pennsylvania State College	State College, Pa.
1863.	Theta.	Pennsylvania College	Gettysburg, Pa.
1864.	Kappa.	Bucknell University	Lewisburg, Pa.
1866.	Zeta.	Washington and Lee University	Lexington, Va.
1866.	Rho.	Butler University	Irvington, Ind.
1867.	Mu.	Denison University	Grandville, Ohio.
1869.	Omega.	Northwestern University	Evanston, Ill.
1871.	Chi.	Hanover College	Hanover, Ind.
1872.	Sigma Sigma.	Hampden-Sydney College	Hampden-Sydney, Va.
1874.	Gamma Gamma	Randolph-Macon College	Ashland, Va.
1874.	Delta Delta.	Perdue University	Lafayette, Ind.
1876.	Zeta Zeta.	Center College	Danville, Ky.
1882.	Zeta Psi.	University of Cincinnati	Cincinnati, Ohio.
1882.	Alpha Gamma.	Ohio State University	Columbus, Ohio.
1882.	Alpha Zeta.	Beloit College	Beloit, Wis.
1882.	Alpha Theta.	Mass. Institute of Technology	Boston, Mass.
1883.	Alpha Epsilon.	University of Nebraska	Lincoln, Neb.
1883.	Alpha Iota.	Illinois Wesleyan University	Bloomington, Ill.
1883.	Alpha Lambda.	Wisconsin State University	Madison, Wis.
1884.	Alpha XI.	University of Kansas	Lawrence, Kan.
1884.	Alpha Nu.	University of Texas	Austin, Texas.
1886.	Alpha Omicron.	Tulane University	New Orleans, La.
1886.	Alpha Pi.	Albion College	Albion, Mich.
1886.	Alpha Beta.	University of California	Berkeley, Cal.
1886.	Alpha Rho.	Lehigh University	Bethlehem, Pa.
1888.	Alpha Sigma.	University of Minnesota	Minneapolis, Minn.
1889.	Alpha Tau.	University of North Carolina	Chapel Hill, N. C.
1889.	Alpha Upsilon.	University of Southern California	Los Angeles, Cal.
1890.	Alpha Phi.	Cornell University	Ithaca, N. Y.
1892.	Alpha Psi.	Vanderbilt University	Nashville, Tenn.
1892.	Alpha Omega.	Leland Stanford, Jr., University	Palo Alto, Cal.
1893.	Eta Eta.	Dartmouth College	Hanover, N. H.
1893.	Alpha.	Miami University	Oxford, Ohio.
1893.	Alpha Alpha.	Hobart College	Geneva, N. Y.
1893.	Kappa Kappa.	University of Illinois	Champaign, Ill.
1894.	Lambda Lambda.	Kentucky State College	Lexington, Ky.
1894.	Nu Nu.	Columbia College	New York City, N. Y.
1894.	Epsilon.	Columbian University	Washington, D. C.
1895.	Mu Mu.	West Virginia University	Morgantown, W. Va.
1896.	Tau.	Roanoke College	Salem, Va.
1896.	Phi Phi.	University of Pennsylvania	Philadelphia, Pa.
1896.	Xi Xi.	Missouri State University	Columbia, Mo.
1897.	Omicron Omicron.	University of Chicago	Chicago, Ill.
1897.	Theta Theta.	University of Michigan	Ann Arbor, Mich.

SIGMA CHI.

ALPHA THETA CHAPTER.

Established March 22, 1882.

MEMBERS.

GEORGE DESLER ATWOOD.
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ARCHIBALD HYDE EHLE.
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THEODORE VICTOR FOWLER, JR.
THAYER PRESCOTT GATES.

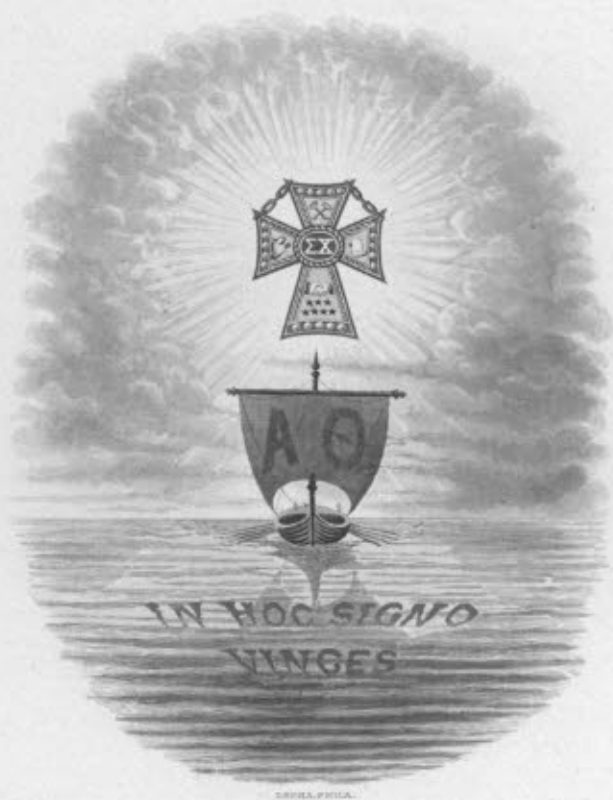
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FRANK BATES WALKER.
CHARLES RICHARD WOODHULL.

Fratres in Urbe.

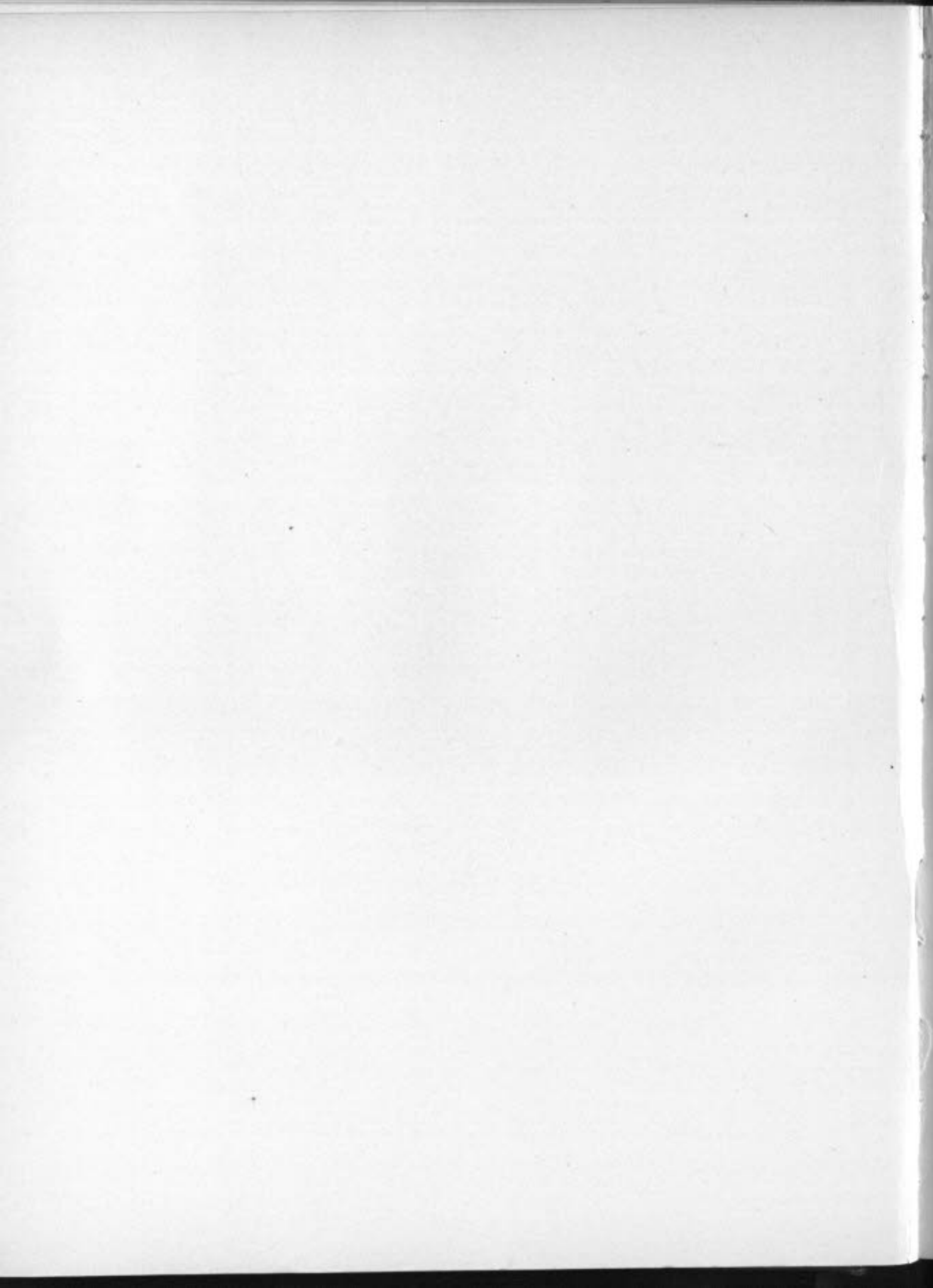
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CALVIN BARTON PRATT.
LUCIUS SPAULDING TYLER.

EDWARD PAYSON WHITMAN.



SCOTT & BOWNE



DELTA PSI.

CHAPTER ROLL.

A.	Columbia College	.	.	.	.	.	.	.	.	New York City.
Δ.	University of Pennsylvania.	.	.	.	.	.	.	.	.	Philadelphia, Pa.
E.	Trinity College	.	.	.	.	.	.	.	.	Hartford, Conn.
Λ.	Williams College	.	.	.	.	.	.	.	.	Williamstown, Mass.
Φ.	University of Mississippi	.	.	.	.	.	.	.	.	Oxford, Miss.
Υ.	University of Virginia	.	.	.	.	.	.	.	.	Charlottesville, Va.
Σ.	Sheffield Scientific School	.	.	.	.	.	.	.	.	New Haven, Conn.
T.	Massachusetts Institute of Technology	Boston, Mass.

DELTA PSI.

TAU CHAPTER.

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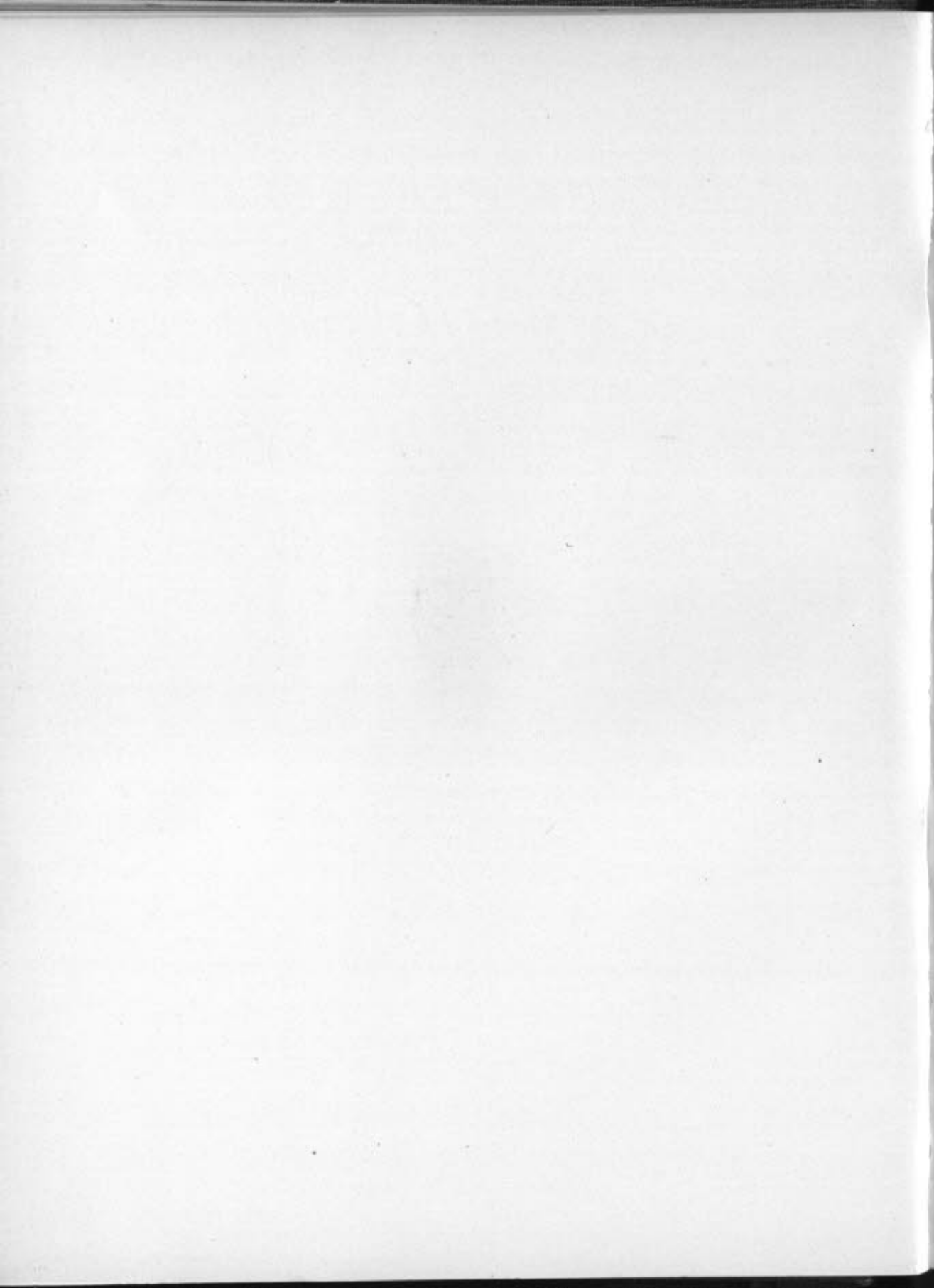
JAMES LOOCKERMANN TAYLOR, JR.

HAROLD WESSON.

WILLIAM WHIPPLE.



Wm. H. H. Co.



CHI PHI.

CHAPTER ROLL.

A.	University of Virginia	Charlottesville, Va.
B.	Massachusetts Institute of Technology	Boston, Mass.
F.	Emory College	Oxford, Ga.
A.	Rutgers College	New Brunswick, N. J.
E.	Hampden-Sydney College	Hampden-Sydney, 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.
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.
Ο.	Sheffield Scientific School, Yale University	New Haven, Conn.
P.	Lafayette College	Easton, Pa.
Σ.	Wofford College	Spartanburg, S. C.
Φ.	Amherst College	Amherst, Mass.
Ψ.	Lehigh University	South Bethlehem, Pa.

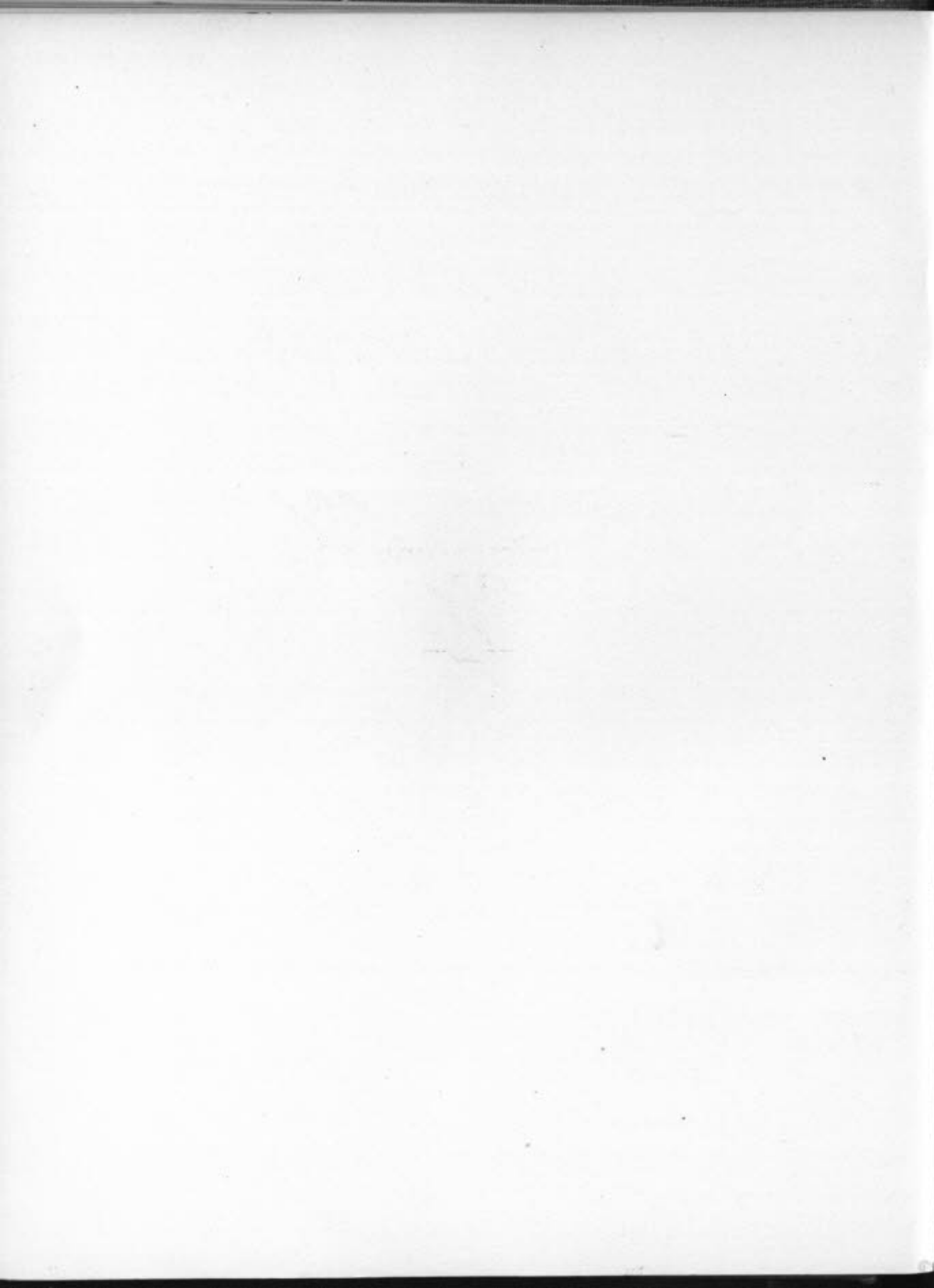
CHI PHI.

BETA CHAPTER.

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CHARLES CALVIN BRIGGS, JR.
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PHILIP REEDER SMITH.
EDWIN WHITMAN STURTEVANT.
MILFORD WERTHEIMER.





DELTA KAPPA EPSILON.

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
Chi.	University of Mississippi	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	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

DELTA KAPPA EPSILON.

SIGMA TAU CHAPTER.

Established 1890.

Frater in Facultate.

ALFRED EDGAR BURTON.

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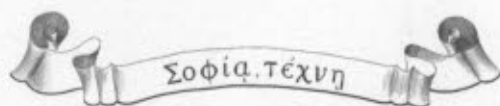
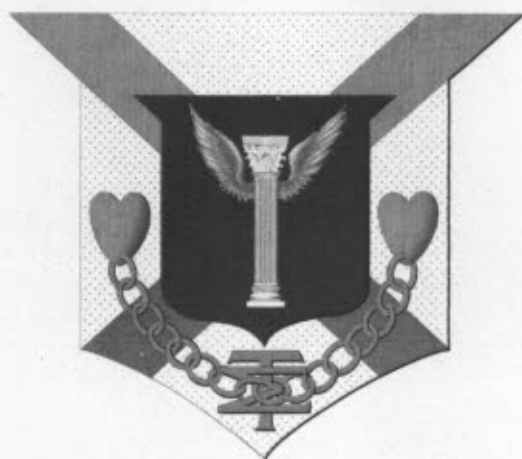
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PHI BETA EPSILON.

Founded 1890.

LOCAL AT TECHNOLOGY.

PHI BETA EPSILON.

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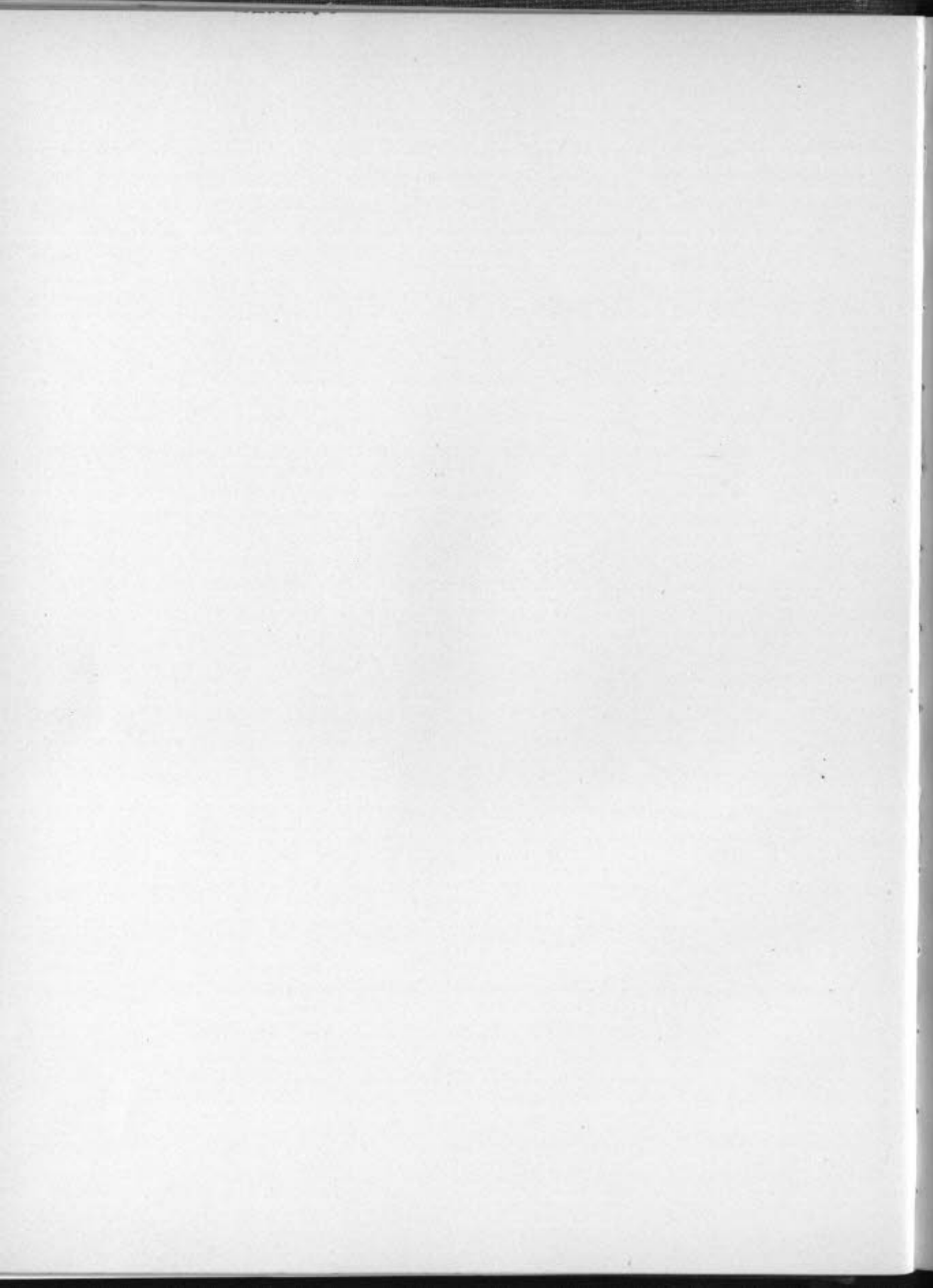
Fratres in Urbe.

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STEPHEN BOWER.
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WILLIAM C. THALHEIMER.
J. GIFFORD THOMPSON.
CHARLES A. WATROUS.
WILLIAM E. WEST.



Debra, Phila.



DELTA UPSILON.

Founded at Williams College, 1834.

CHAPTER ROLL.

1834.	Williams	Williamstown, Mass.
1838.	Union	Schenectady, N. Y.
1847.	Hamilton	Clinton, N. Y.
1847.	Amherst	Amherst, Mass.
1847.	Adelbert	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.
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	West Somerville, Mass.
1887.	De Pauw	Greencastle, Ind.
1888.	Pennsylvania	Philadelphia, Pa.
1890.	Minnesota	Minneapolis, Minn.
1891.	Technology	Boston, Mass.
1894.	Swathmore	Swathmore, Pa.
1895.	California	Berkeley, Cal.
1895.	Leland Stanford, Jr.	Palo Alto, Cal.
1898.	Nebraska	Lincoln, Neb.
1898.	McGill	Montreal, Canada.
1899.	Toronto	Toronto, Canada.

DELTA Upsilon.

TECHNOLOGY CHAPTER.

Established 1891.

Frater in Facultate.

FRANK VOGEL.

MEMBERS.

WARREN IRA BICKFORD.
FRANKLIN SAWYER BRADLEY.
WALTER CRANE CHAFFEE.
CLAUDIUS HOWARD COOPER.
CYRUS HOWARD HAPGOOD.
WILLIAM BALDWIN HOUGH.
VALDEMAR FRANK HOLMES.
GEORGE TAYLOR HYDE.
HERBERT MILTON MACMASTER.
PHILIP WYATT MOORE.
PERCY HARRY PARROCK.
JAMES ALFRED PATCH.
OLIVER HAZARD PERRY, JR.

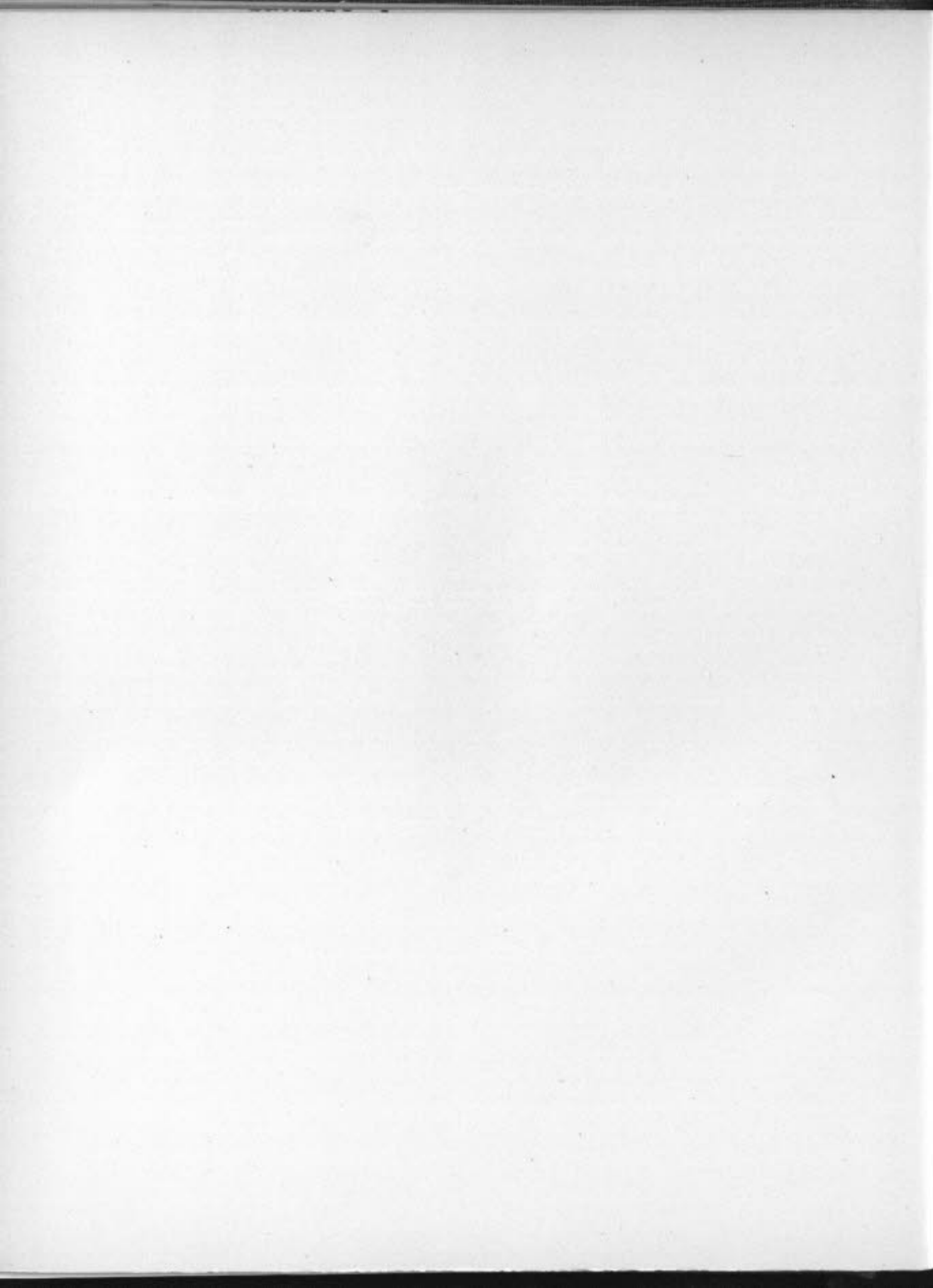
REDFIELD PROCTER, JR.
LOUIS BALLAUF RAPP.
WALTER LOUIS RAPP.
GARDNER ROGERS.
FRANKLIN TINKER ROOT.
RALPH ROOT.
GEORGE TILLEY SEABURY.
STANLEY COLLAMORE SEARS.
GEORGE BEACH SEYMS.
CHARLES EDWIN SHERMAN.
CLIFFORD MELVILLE SWAN.
EVERETT PENDLETON TURNER.
HOWARD CHUBBUCK TURNER.

HARRY LESLIE WALKER.

Fratres in Urbe.

JOSHUA ATWOOD, 3D.
MAURICE LE BOSQUE.
LOUIS DERR.
GEORGE PHILLIPS DIKE.
CHARLES DUNN.
CHARLES WARREN HAPGOOD.
ALBERT LINCOLN KENDALL.
ARTHUR SAMUEL KEENE.

WILLIS TAYLOR KNOWLTON.
JOHN WINSLOW HERR.
WALTER ELBRIDGE PIPER.
THOMAS GLEASON RICHARDS.
MILES STANDISH RICHMOND.
JOHN CARLETON SHERMAN.
ALFRED BALL TENNEY.
ALFRED EDWARD ZAPP.



SIGMA ALPHA EPSILON.

Founded in 1856, at Alabama State University, Tuscaloosa, Alabama.

CHAPTER ROLL.

Mass. Beta Upsilon.	Boston University	Boston, Mass.
Mass. Iota Tau.	Massachusetts Institute of Technology	Boston, Mass.
Mass. Gamma.	Harvard University	Cambridge, Mass.
Mass. Delta.	Worcester Polytechnic Institute	Worcester, Mass.
N. Y. Alpha.	Cornell University	Ithaca, N. Y.
N. Y. Mu.	Columbia University	New York, N. Y.
N. Y. Sigma Phi.	St. Stephen's College	Annandale, N. Y.
Penn. Omega.	Allegheny College	Meadville, Pa.
Penn. Sigma Phi.	Dickinson College	Carlisle, Pa.
Penn. Alpha Zeta.	Pennsylvania State College	State College, Pa.
Penn. Zeta.	Bucknell University	Lewisburg, Pa.
Penn. Delta.	Gettysburg College	Gettysburg, Pa.
Va. Omicron.	University of Virginia	Charlottesville, Va.
Va. Sigma.	Washington and Lee University	Lexington, Va.
N. C. Xi.	University of North Carolina	Chapel Hill, N. C.
N. C. Theta.	Davidson College	Davidson, N. C.
S. C. Gamma.	Wofford College	Spartanburg, S. C.
Ga. Beta.	University of Georgia	Athens, Ga.
Ga. Psi.	Mercer University	Macon, Ga.
Ga. Epsilon.	Emory College	Oxford, Ga.
Ga. Phi.	Georgia School of Technology	Atlanta, Ga.
Mich. Iota Beta.	University of Michigan	Ann Arbor, Mich.
Mich. 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.
Ind. Alpha.	Franklin College	Franklin, Ind.
Ind. Beta.	Perdue University	Lafayette, Ind.
Ill. Psi. Omega.	Northwestern University	Evanston, Ill.
Ill. Beta.	University of Illinois	Champaign, Ill.
Ky. Kappa.	Central University	Richmond, Ky.
Ky. Iota.	Bethel College	Russellville, Ky.
Ky. Epsilon.	Kentucky State College	Lexington, Ky.
Tenn. Zeta.	Southwestern Presbyterian University	Clarksville, Tenn.
Tenn. Lambda.	Cumberland University	Lebanon, Tenn.
Tenn. Nu.	Vanderbilt University	Nashville, Tenn.
Tenn. Kappa.	University of Tennessee	Knoxville, Tenn.
Tenn. Omega.	University of the South	Sewanee, Tenn.
Tenn. Eta.	Southwestern Baptist University	Jackson, Tenn.
Ala. Mu.	University of Alabama	Tuscaloosa, Ala.
Ala. Iota.	Southern University	Greenboro, Ala.
Ala. Alpha Mu.	Alabama Polytechnic Institute	Auburn, Ala.
Miss. Gamma.	University of Mississippi	Oxford, Miss.
Mo. Alpha.	University of Missouri	Columbia, Mo.
Mo. Beta.	Washington University	St. Louis, Mo.
Neb. Lambda Pi.	University of Nebraska	Lincoln, Neb.
Ark. Alpha Upsilon.	University of Arkansas	Fayetteville, Ark.
Tex. Rho.	University of Texas	Austin, Tex.
Col. Chi.	University of Colorado	Boulder, Col.
Col. Zeta.	Denver University	Denver, Col.
Cal. Alpha.	Leland Stanford, Jr., University	Palo Alto, Cal.
Cal. Beta.	University of California	Berkeley, Cal.
La. Tau Upsilon.	Tulane University	New Orleans, La.
La. Epsilon.	Louisiana State University	Baton Rouge, La.

SIGMA ALPHA EPSILON

MASSACHUSETTS IOTA TAU CHAPTER.

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DONALD MINOR BELCHER.
HAROLD OTIS BOSWORTH.
EDWIN PARK BURDICK.
FREDERICK HOSMER COOKE.
EARL BENHAM CRANE.
LOUIS AUSTIN CROWELL.
EDWARD HENRY CUTTER.
NEWMAN LORING DANFORTH.
CHARLES WALLACE EWART.
CHARLES MUSSEY FOSDICK.
FLOYD JAMES FOSTER.
ALONZO KEYT ISHAM.

LEMUEL CUSHING KIMBALL, JR. (Mass. T.).
KING HARDING KNOX (Va. O.).
FRANK GEORGE LANE.
JAMES ALBERT MCALLEP.
LESLIE WALKER MILLAR.
LESTER FREEMAN MILLER.
ROBERT JAMES MONTGOMERY.
HARRY BRADFORD POND.
LOUIS ANDREW STADLER.
EDWARD GORDON THATCHER.
WILLIAM WRIGHT WALCOTT.
CLARENCE HOWARD WALKER.
GEORGE DAVIS WILSON (Tenn. E.).

Frater in Collegio.

WILLIAM THOMAS HALL.

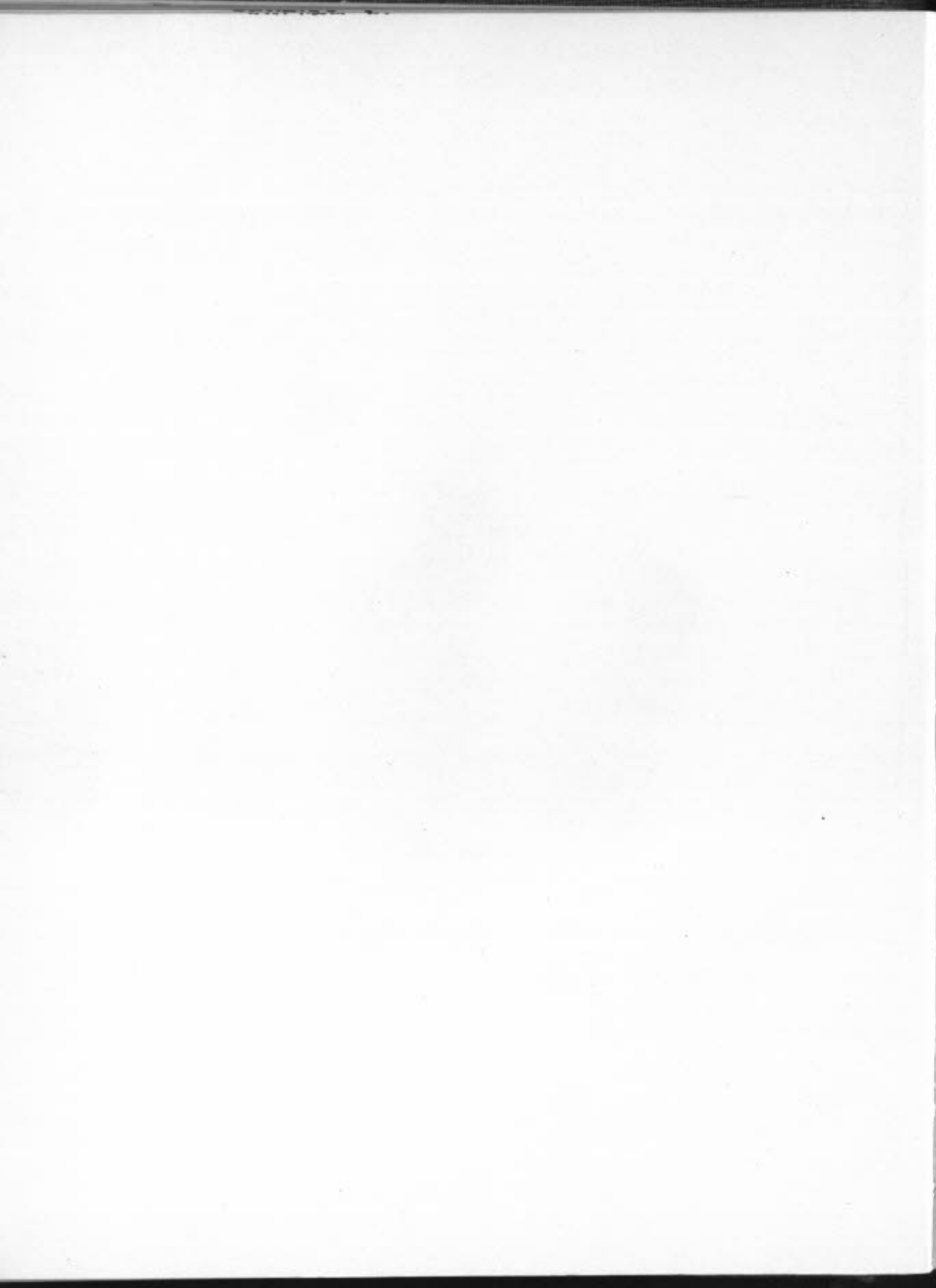
Fratres in Urbe.

ALBERT RICHARD BEDDALL.
WALLACE CLARK BRACKETT.
HAROLD CHASE BUCKMINSTER.
LUZERNE SIMEON COWLES.
CHARLES SPENCER CRANE.
WILLIAM WYMAN CROSBY.
HERBERT NATHAN DAWES.
JOHN WALLIS FLEET.
WILLIAM THOMAS HALL.

HERMAN HORMEL.
HARRINGTON MACK.
FRANK BIRD MASTERS.
CARL LEON MORGAN.
WALTER ROBERT PHEMISTER.
MYRON EVERETT PIERCE.
SILAS ANTHONY SAVAGE.
ROBERT SIDNEY WASON.
WINSLOW ABBOTT WILSON.



The Ensign Bank & Ensign Co. Ltd.



DELTA TAU DELTA.

Founded at Bethany College, January 1, 1860.

CHAPTER ROLL.

Division of the South.

A.	Vanderbilt University	Nashville, Tenn.
II.	University of Mississippi	Oxford, Miss.
Φ.	Washington and Lee University	Lexington, Va.
B. Δ.	University of Georgia	Athens, Ga.
B. E.	Emory College	Oxford, Ga.
B. Θ.	University of the South	Sewanee, Tenn.
B. I.	University of Virginia	Charlottesville, Va.
B. Ξ.	Tulane University	New Orleans, La.

Division of the West.

O.	University of Iowa	Iowa City, Iowa.
B. Γ.	University of Wisconsin	Madison, Wis.
B. H.	University of Minnesota	Minneapolis, Minn.
B. K.	University of Colorado	Boulder, Col.
B. II.	Northwestern University	Evanston, Ill.
B. P.	Leland Stanford, Jr., University	Palo Alto, Cal.
B. T.	University of Nebraska	Lincoln, Neb.
B. T.	University of Illinois	Champaign, Ill.
B. Ω.	University of California	Berkeley, Cal.
Γ. A.	University of Chicago	Chicago, Ill.

Division of the North.

B.	Ohio University	Athens, Ohio.
Δ.	University of Michigan	Ann Arbor, Mich.
E.	Albion College	Albion, Mich.
Z.	Adelbert College	Cleveland, Ohio.
K.	Hillsdale College	Hillsdale, Mich.
M.	Ohio Wesleyan University	Delaware, Ohio.
X.	Kenyon College	Gambier, Ohio.
B. A.	Indiana University	Bloomington, Ind.
B. B.	De Pauw University	Greencastle, Ind.
B. Z.	Butler College, University of Indianapolis	Irvington, Ind.
B. Φ.	Ohio State University	Columbus, Ohio.
B. Ψ.	Wabash College	Crawfordsville, Ind.

Division of the East.

A.	Allegheny College	Meadville, Pa.
Γ.	Washington and Jefferson College	Washington, Pa.
P.	Stevens Institute of Technology	Hoboken, N. J.
T.	Rensselaer Polytechnic Institute	Troy, N. Y.
Ω.	University of Pennsylvania	Philadelphia, Pa.
B. A.	Lehigh University	Bethlehem, Pa.
B. M.	Tufts College	Medford, Mass.
B. N.	Massachusetts Institute of Technology	Boston, Mass.
B. O.	Cornell University	Ithaca, N. Y.
B. X.	Brown University	Providence, R. I.

DELTA TAU DELTA

BETA NU CHAPTER.

Established May, 1889.

MEMBERS.

PHILIP STONE BAKER.

FRANCIS MINOT BLAKE.

LEWIS EMERY.

HENRY DETRICT JOUETT.

CLIFFORD MILTON LEONARD.

FRANCIS FAY HILL SMITH.

MONTFORT HILL SMITH.

LOUIS AMORY SOHIER.

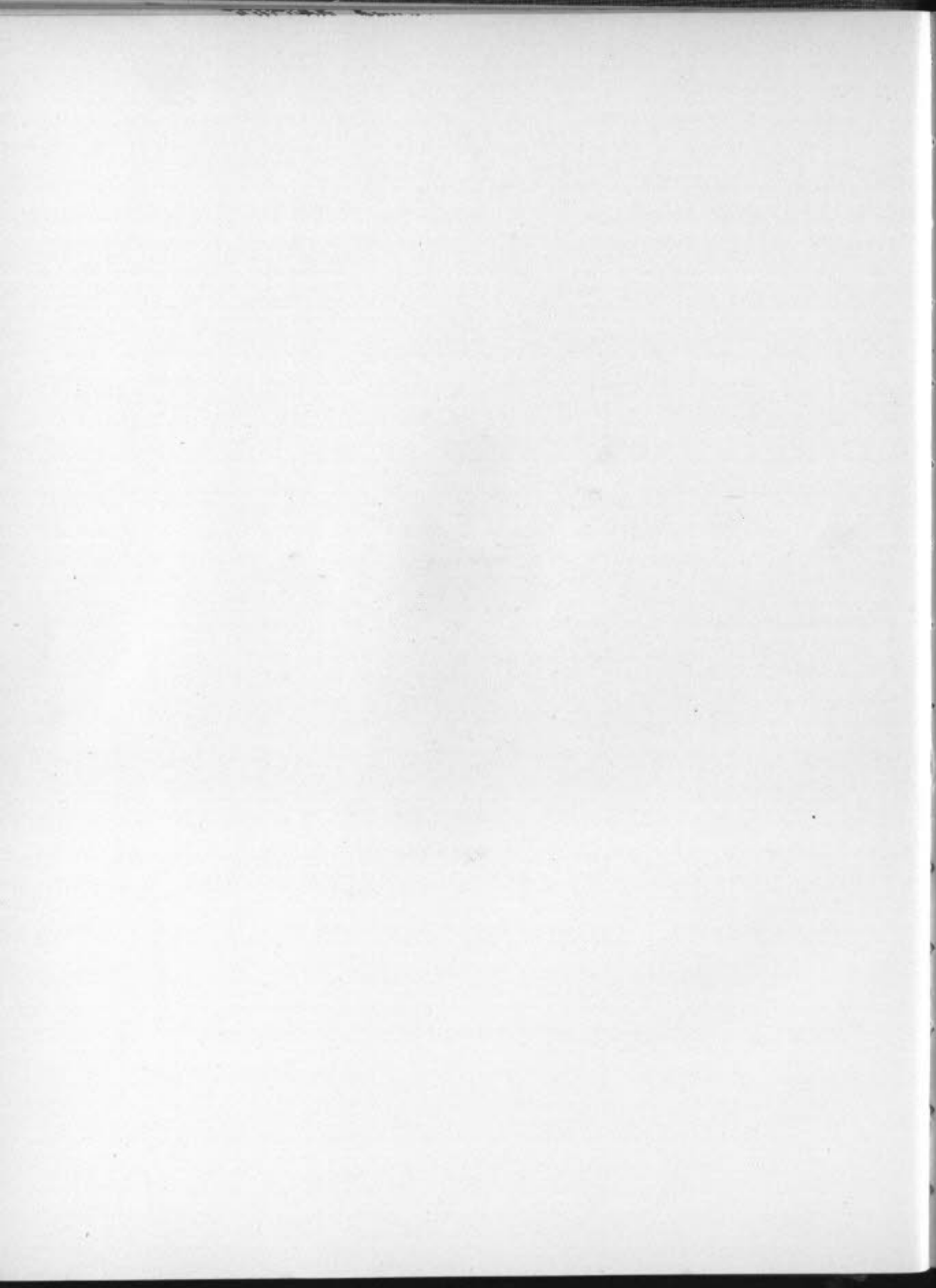
WALTER SOHIER.

WILLIAM LEONARD STEVENS.

RALPH BENJAMIN YERXA.



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PHI GAMMA DELTA.

Established in 1848.

CHAPTER ROLL.

Alpha.	Washington and Jefferson College	Washington, Pa.
Lambda.	De Pauw University	Greencastle, Ind.
Nu.	Bethel College	Russellville, Ky.
Beta Deuteron.	Roanoke College	Salem, Va.
Omicron.	University of Virginia	Charlottesville, Va.
Xi.	Gettysburg College	Gettysburg, Pa.
Tau.	Hanover College	Hanover, Ind.
Epsilon.	College City of New York	New York, N. Y.
Psi.	Wabash College	Crawfordsville, Ind.
Omega.	Columbia University	New York, N. Y.
Alpha Deuteron.	Illinois Wesleyan University	Bloomington, Ill.
Gamma Deuteron.	Knox College	Galesburg, Ill.
Zeta Deuteron.	Washington and Lee College	Lexington, Va.
Theta Deuteron.	Ohio-Wesleyan University	Delaware, Ohio.
Zeta.	Indiana State University	Bloomington, Ind.
Delta Deuteron.	Hampden-Sidney College	Hampden-Sidney, 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 College	Lewisburg, Pa.
Lambda Deuteron.	Denison University	Granville, Ohio.
Rho Deuteron.	Wooster University	Wooster, 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.
Delta Chi.	Lehigh University	Bethlehem, Pa.
Gamma Phi.	Pennsylvania State College	State College, Pa.
Iota Mu.	Massachusetts Institute of Technology	Boston, 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.
Phi 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	Orino, Me.

PHI GAMMA DELTA.

IOTA MU CHAPTER.

Established in 1889.

MEMBERS.

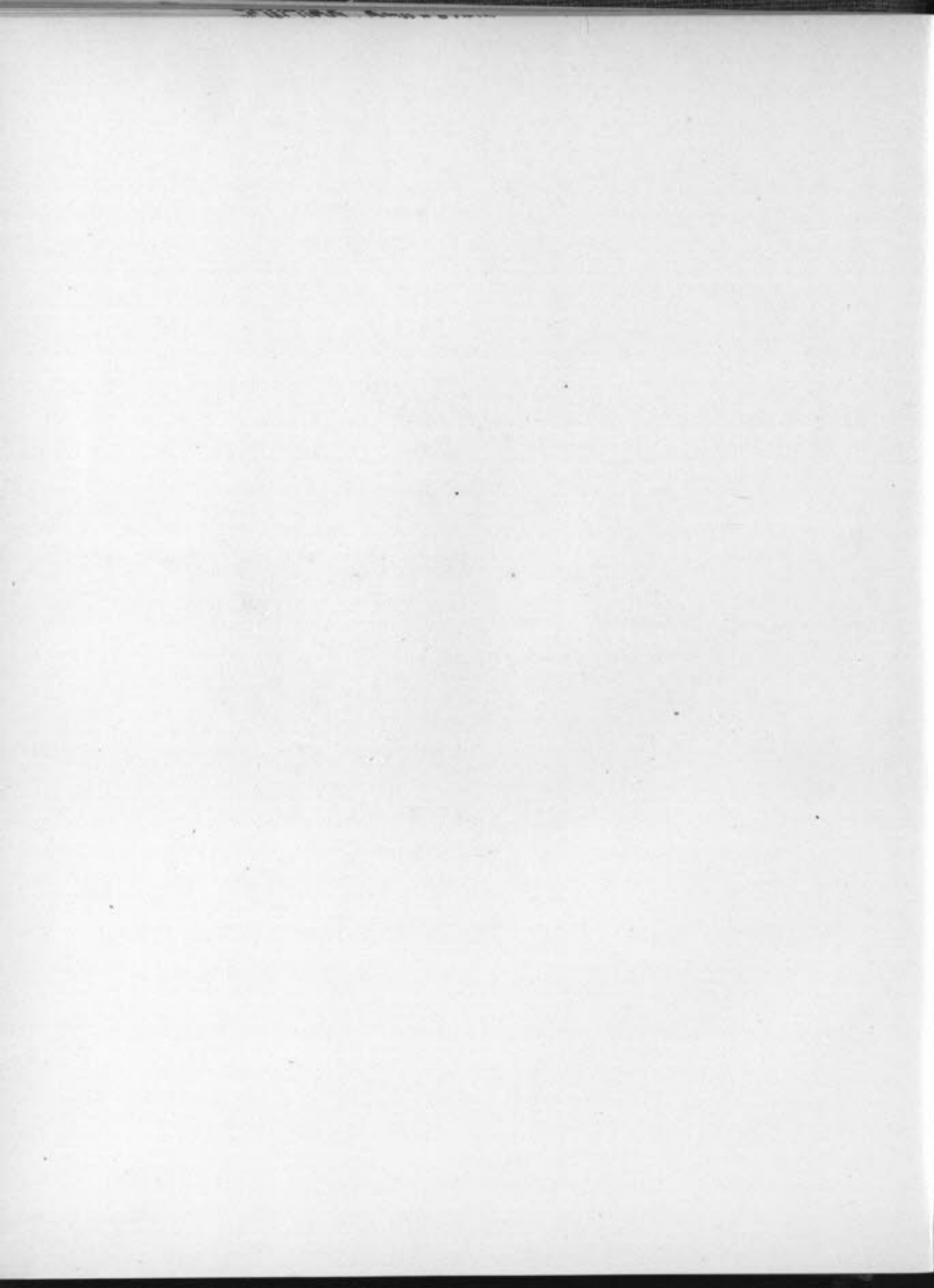
ALFRED WARREN ALLYN.
WILBUR STUART BARKER.
ARTHUR FRANCIS BUYS.
BURTON STEDMAN CLARK.
ARTHUR LUKE COLLIER.
WILLARD WELLMAN DOW.
FREDERICK CLARK DURANT, JR.
ALFRED WILLIAM FRIEND.
EDMUND ANTHONY GARRETT.

ELLIOTT WALKER KNIGHT.
ALFRED ERNEST LANG.
LEWIS MORSE LAWRENCE.
BENJAMIN EDWARD McKECKNIE.
WILLIAM GARDNER PIGEON.
ELZEAR JOSEPH PROULX.
ARTHUR HAROLD SAWYER.
ROBERT FLETCHER WHITNEY.
LEONARD WESSON.

PERCY ROLFE ZIEGLER.



Decker Photo.





ALPHA DELTA PHI.

FREDERICK WILLIAMSON SMITH . . . Johns Hopkins University.

ALPHA TAU OMEGA.

WILLIAM ELLIS FARNHAM . . . Brown University.
 WILLIAM THOMAS LANE . . . University of Maine.
 ROBERT BASS MORTON . . . University of Vermont.
 WILLIAM JAMES SAYWOOD . . . University of Vermont.
 GEORGE TRUMAN WILSON . . . University of Maine.

BETA THETA PI.

FREDERICK DELANO BUFFUM . . . Amherst College.

CHI PSI.

FRANK MORRIS RILEY . . . University of Wisconsin.

DELTA PHI.

PAUL GERHARD L. HILKEN . . . Lehigh University.

PHI DELTA THETA.

FLOYD BYRON HULL . . . University of Michigan.
 PIERRE BARBEAU PENDILL . . . University of Michigan.

PSI UPSILON.

WILLIAM TRUMAN ALDRICH . . . Brown University.
 ERILS HASTINGS GREEN . . . Brown University.
 WALTER IRVING MARTIN . . . Chicago University.
 WILLIAM JESSE NEWLIN . . . Amherst College.

Q. T. V.

CHARLES FRANKLIN WILLARD . . . Durham, N. H.

SIGMA PHI.

JOHN REYNOLD MARVIN . . . Hamilton College.

THETA DELTA CHI.

MORTIMER BRISTOL FOSTER . . . College of the City of New York.
 JAMES CONRAD HECKMAN . . . Lafayette College.

ZETA PSI.

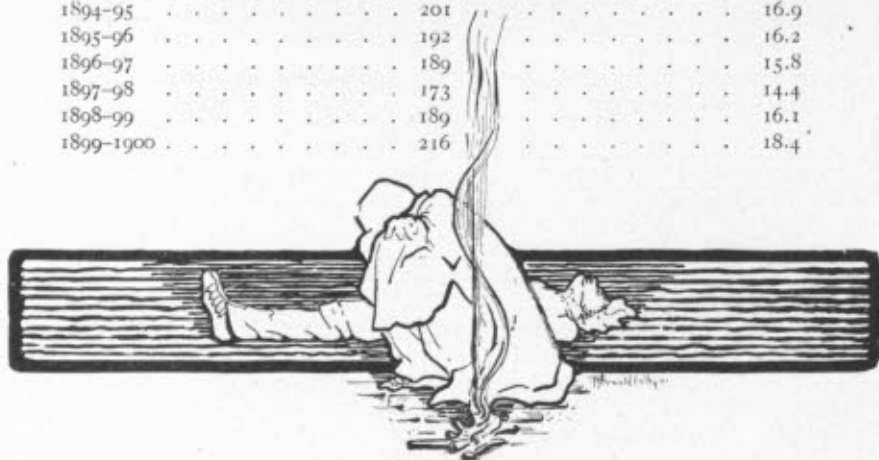
HERBERT HARLEY KENNEDY . . . Brown University.
 FREDERICK HOWARD TILLINGHAST . . . Brown University.

FRATERNITY SUMMARY

	Members.
Sigma Chi	24
Delta Psi	23
Chi Phi	22
Delta Kappa Epsilon	24
Phi Beta Epsilon	19
Delta Upsilon	27
Sigma Alpha Epsilon	26
Delta Tau Delta	11
Phi Gamma Delta	19
Other Fraternities represented	21
	<hr/> 216

Statistics of Fraternity Men at Technology since 1885.

Year.	Number of men.	Per cent.
1885-86	52	8.5
1886-87	42	8.9
1887-88	42	6.1
1888-89	45	5.4
1889-90	93	10.8
1890-91	158	16.0
1891-92	184	17.1
1892-93	207	18.8
1893-94	191	16.5
1894-95	201	16.9
1895-96	192	16.2
1896-97	189	15.8
1897-98	173	14.4
1898-99	189	16.1
1899-1900	216	18.4





LOCAL SOCIETIES

W.T. Aldrich '01.



K₂ S.

For a Club polemical
In matters chemical,
And yet of mystic
Characteristic,
Address
K₂ S.

MEMBERS.

REUBEN WILFRED BALCOM.
JAMES HERVEY BATCHELLER.
CHARLES WALKER CADE.
FREDERICK WARD COBURN.
ALBERT CHARLES DART, JR.
ALBERT WILLIS HIGGINS.
GEORGE MYRON HOLBROOK.
ASHTON CLIFFORD PERSONS.

PHILIP FRANKLIN RIPLEY.
RALPH CHANDLER ROBINSON.
WARREN WILLARD SANDERS.
FREDERIC HENRY SEXTON.
GEORGE PERCIVAL SHUTE.
ALBERT FREDERICK SULZER.
HARRY MARTIN THAYER.
HOWARD IRVING WOOD.

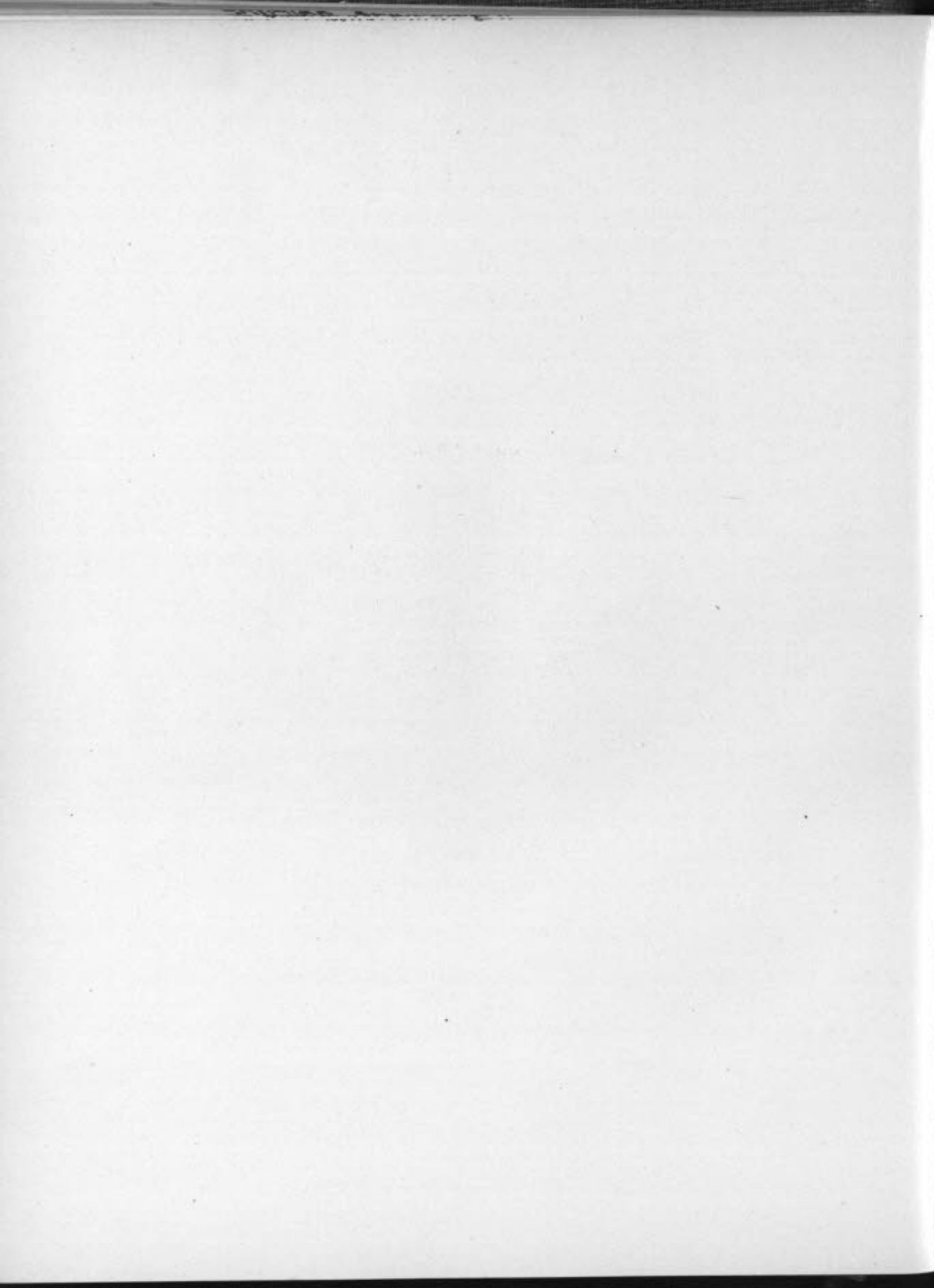
HONORARY MEMBERS.

JAMES M. CRAFTS.
FRED L. BARDWELL.
SAMUEL CABOT.
HENRY CARMICHAEL.
THOMAS M. DROWN.
THOMAS EVANS.
HENRY FAY.
AUGUSTUS H. GILL.
HEINRICH O. HOFMAN.
G. RUSSELL LINCOLN.
RICHARD W. LODGE.

F. JEWETT MOORE.
SAMUEL P. MULLIKEN.
JAMES F. NORRIS.
ARTHUR A. NOYES.
THOMAS E. POPE.
GEORGE WILLIAM ROLFE.
JOHN W. SMITH.
HENRY PAUL TALBOT.
ROBERT H. RICHARDS.
WILLIAM H. WALKER.
WILLIS R. WHITNEY.



Dresden, Photo.



HAMMER AND TONGS.

With name so weird
That Freshmen feared
Its dire initiation,
This Club of shiners,—
In purpose, diners,—
Has highest reputation.
With wines and toasts, cigars and songs,
Lives gay and free the
HAMMER AND TONGS.

OFFICERS.

President.

SAMUEL BASS ELBERT.

Vice President.

GEORGE OTTO SCHNELLER.

Secretary.

LEWIS EMERY, III.

Treasurer.

STEPHEN PEARSON BROWN.

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WILLIAM TRUMAN ALDRICH.

WARREN IRA BICKFORD.

STEPHEN PEARSON BROWN.

WILLIAM RAWSON COLLIER.

FRANCES BIRD DUTTON.

SAMUEL BASS ELBERT.

LEWIS EMERY, III.

BERTRAM WILLIAM BATCHELDER GREENE.

WILLIAM BALDWIN HOUGH.

HARRY GEORGE KOCH.

GEORGE HOUK MEAD.

FREDERICK ICKES MERRICK.

PIERRE BARBEAU PENDILL.

RALPH PLUMB.

WALTER LOUIS RAPP.

FRANK MORRIS RILEY.

GEORGE OTTO SCHNELLER.

STANLEY COLLAMORE SEARS.

MARCY LEAVENWORTH SPERRY.

THE SHERWOOD CLUB.

Of jolly bandits twice a score
Once gathered 'neath a banner,
Which for the legend "SHERWOOD" bore
In true highwayman manner.
They seized full many a maiden's heart,
Yet—unlike most highwaymen—
Most gladly with their own did part,
In kind thus to repay them.
The antlered moose in emblem shows
The purpose of these sinners:
All thought of sentimental woes
To banish, in stag dinners.

OFFICERS.

Robin Hood.

CHARLES WETMORE KELLOGG, JR.

Little John.

GEORGE BRIGHT, JR.

Friar Tuck.

ARCHIBALD HYDE EHLE.

Outlaws.

THAYER PRESCOTT GATES.

RUSSELL BRYANT LOWE.

GEORGE BRIGHT, JR.

Class of 1901.

CHARLES WARD ADAMS.

JAMES BRADFORD LAWS.

WILLIAM TRUMAN ALDRICH.

PERCY HARRY PARROCK.

WARREN IRA BICKFORD.

PIERRE BARBEAU PENDILL.

HARLE OREN CUMMINS.

JAY NELSON PIKE.

PAUL GERHARD L. HILKEN.

RALPH PLUMB.

HERBERT HARLEY KENNEDY.

ANDREW ELIOT RITCHIE.

HARVEY GEORGE KOCH.

CHARLES RICHARD WOODHULL.

Class of 1902.

GEORGE BRIGHT, JR.

THAYER PRESCOTT GATES.

WALTER LORRAIN COOK.

CHARLES WETMORE KELLOGG, JR.

ARCHIBALD HYDE EHLE.

RUSSELL BRYANT LOWE.

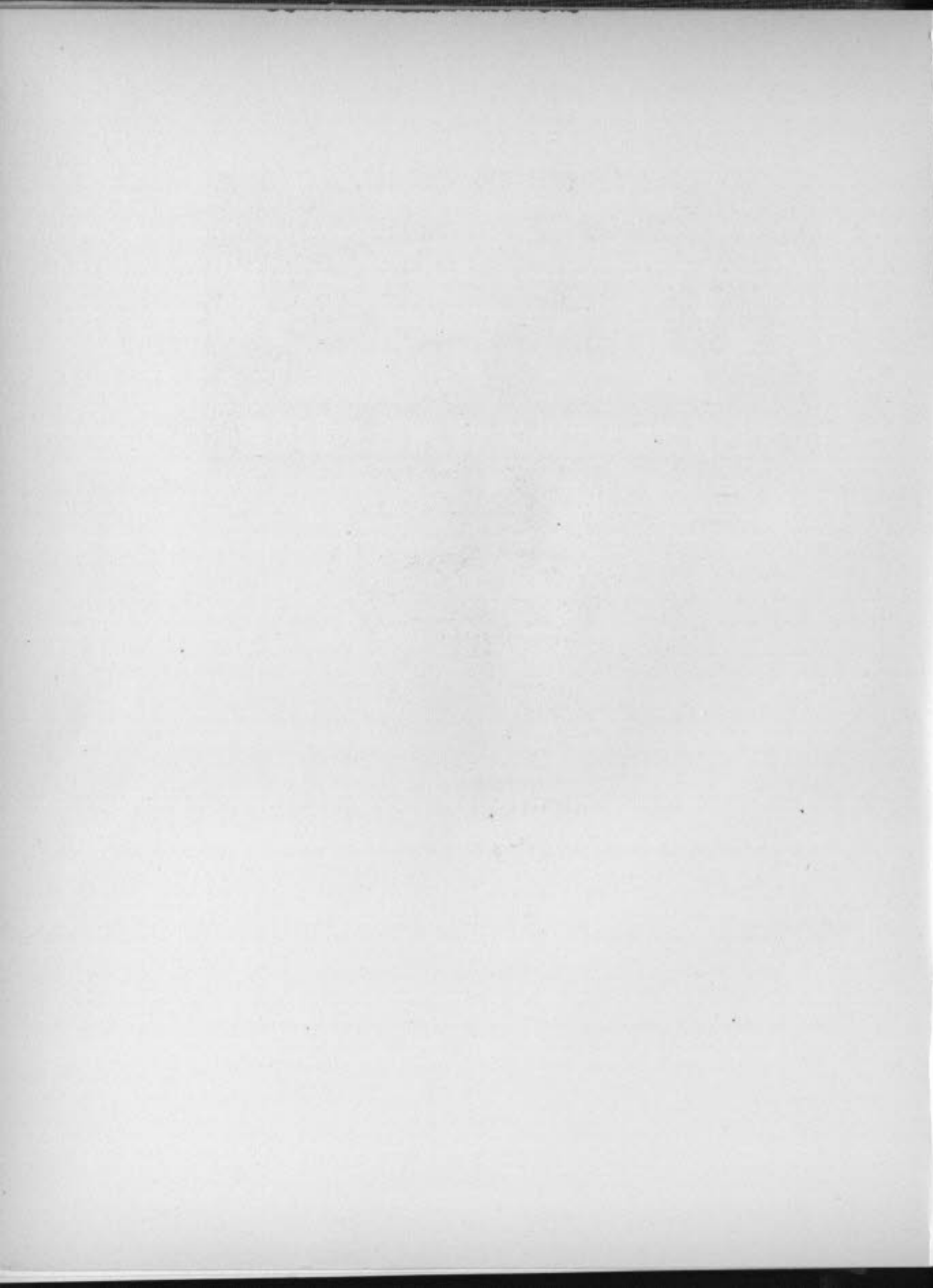
THEODORE VICTOR FOWLER, JR.

MORTIMER LIVINGSTON NAGEL.

EDWIN WHITMAN STURTEVANT.



L. H. B. P. 1904





My *first*, — a bore:
 My *next*, — a curse:
 That and *third*, — a beast:
 Behead, — a cloth:
 Again, — my *first*:
 Once more, — my *third's* released.
 My *whole*, in Tech, a noted clan.
 The answer's plainly MAN-DAM-AN.

OFFICERS, 1898-1899.

<p><i>Chief.</i> CHARLES WETMORE KELLOGG, JR.</p> <p><i>Chief's Daughter.</i> WALTER LORRAIN COOK.</p>	<p><i>Medicine Man.</i> HENRY LINCOLN GREEN.</p>
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Council of War.

GEORGE BRIGHT, JR.	CHARLES GALLOUPE MIXTER.
--------------------	--------------------------

BRAVES.

Class of 1902.

GEORGE BRIGHT, JR.	RUSSELL BRYANT LOWE.
WALTER LORRAIN COOK.	THEODORE GAZLAY MILLER.
HENRY LINCOLN GREEN.	CHARLES GALLOUPE MIXTER.
CHARLES WETMORE KELLOGG, JR.	WILLIAM JASON MIXTER.

Class of 1903.

FRANKLIN SAWYER BRADLEY.	ANDREW HOPEWELL HEPBURN.
HOWARD BREED.	JOSEPH RUSSELL JONES.
FINLEY BURNS.	CHARLES JEWELL MCINTOSH.
ROGER AMES BURR.	BENJAMIN NIELDS, JR.
CLAUDIUS HOWARD COOPER.	LOUIS BALLAUF RAPP.
FRANCIS WOODWARD DAVIS.	GEORGE BEACH SEYMS.
WALTER MAYNARD DRURY.	GORDON WELD STEARNS.
MORTIMER YALE FERRIS.	WILFORD WERTHEIMER.
JOHN LAWRENCE GILSON.	RALPH BENJAMIN YERXA.

ATHLETICS



ATHLETICS AT TECHNOLOGY.



THE past year's work in athletics at Technology has in several ways been thoroughly gratifying. Despite the traditional lack of time and place for training, Technology teams have done excellent work, and many times have been successful.

In Track Athletics, the thorough defeat of Brown University is perhaps the most notable event, yet the victory of the Technology Relay Team over that of Columbia University should not pass without mention. Close rivalry for the class championship resulted in the development of strong class teams. The Nineteen Hundred and One Class Team, in winning the championship, is the first team to equal the record of the Ninety-Eight Class Team, which won the championship in its Sophomore year.

The difficulties of the Technology athlete are particularly prominent in football, and when we add to these the results of the admittedly incorrect decision of an incapable referee, it would be hard for Technology's Foot-Ball Team to be uniformly successful.

The recent formation of the New England Intercollegiate Lawn Tennis Association gives Technology a field of intercollegiate competition which can only result in strengthening the already strong Lawn Tennis Association at Technology.

There are appended summaries of the different events in which Technology teams have competed during the past year.

ATHLETIC ADVISORY COUNCIL.

Chairman.

FRANK H. BRIGGS, '81.

Treasurer.

FRANK L. PIERCE, '89.

Acting Secretary.

STANLEY C. SEARS, '00.

Representatives from M. I. T. Alumni Association.

THOMAS HIBBARD, '75.

JOHN L. BATCHELDER, JR., '90.

FRANK H. BRIGGS, '81.

Representative from Institute Committee.

HAROLD O. BOSWORTH, '02.

Representative from M. I. T. A. A.

STANLEY C. SEARS, '00.

Representative from M. I. T. F. B. A.

HENRY D. JOUETT, '00.



ATHLETIC ASSOCIATION

OFFICERS.

President.

HERBERT MILTON MACMASTER, 1900.

Vice President.

WILLIAM WARREN GARRETT, 1901.

Secretary.

MILTON WESTON HALL, 1900.

Treasurer.

RAY MURRAY, 1901.

Executive Committee.

FRANCIS KERNAN BAXTER, 1901, *Captain of Technology Track Team.*

RUSSELL PARKER PRIEST, *Captain of 1900 Track Team.*

RAY MURRAY, *Captain of 1901 Track Team.*

DAVID DUDLEY FIELD, *Captain of 1902 Track Team.*

HENRY THORNTON WINCHESTER, *Captain of 1903 Track Team.*

CHARLES WALTER CORBETT, *Manager of Technology Track Team.*

THE NEW ENGLAND INTERCOLLEGIATE ATHLETIC ASSOCIATION.

MEMBERS.

Dartmouth College.
Brown University.
Bowdoin College.
Institute of Technology.
Wesleyan University.
University of Maine.

Amherst College.
Williams College.
Trinity College.
Tufts College.
Worcester Polytechnic Institute.

OFFICERS.

President, H. L. SWETT, Bowdoin.
Vice President, F. C. IVES, Wesleyan.
Secretary, E. S. CHASE, Brown.
Treasurer, RAY MURRAY, Technology.

Executive Committee.

F. G. GOUCH, Dartmouth. J. L. VANDERBILT, Amherst. A. H. WOOD, Williams.

HOLDERS OF THE CHAMPIONSHIP CUP.

1887. Dartmouth.	1891. Amherst.	1895. Dartmouth.
1888. Amherst.	1892. Amherst.	1896. Dartmouth.
1889. Dartmouth.	1893. Dartmouth.	1897. Dartmouth.
1890. Amherst.	1894. Technology.	1898. Dartmouth.
	1899. Bowdoin.	

THIRTEENTH ANNUAL MEET OF THE NEW ENGLAND INTERCOLLEGIATE ATHLETIC ASSOCIATION.

Worcester, May 20, 1899.

EVENT.	WINNERS.	TIME.
100-Yard Dash . . .	A. E. CURTENIUS, Amherst . . . C. BILLINGTON, Wesleyan. H. J. HUNT, Bowdoin.	10 2-5 sec.
220-Yard Dash . . .	A. E. CURTENIUS, Amherst . . . H. H. CLOUDMAN, Bowdoin.* A. C. PATTERSON, Williams.	22 3-5 sec.
440-Yard Run . . .	D. F. SNOW, Bowdoin . . . H. W. GLADWIN, Amherst. C. PARK, Williams.	53 2-5 sec.
880-Yard Run . . *	J. BRAY, Williams . . . G. L. DOW, Dartmouth. F. H. KLAER, Amherst.	2 min. 4 1-5 sec.
1-Mile Run . . .	J. BRAY, Williams . . . E. S. CAREY, Wesleyan. C. E. PADDOCK, Dartmouth.	4 min. 46 2-5 sec.
Two-Mile Run . . .	J. BRAY, Williams . . . J. F. MOODY, Dartmouth. A. L. HAWLEY, Amherst.	10 min. 16 sec.

EVENT.	WINNERS.	TIME, HEIGHT, OR DISTANCE.
<i>Two-Mile Bicycle</i> . . .	R. MURRAY, Technology F. C. DUDLEY, Amherst. B. WELLS, Williams.	5 min. 33 2-5 sec.
<i>120-Yard High Hurdle</i> . . .	P. P. EDSON, Dartmouth E. S. HADLOCK, Bowdoin. J. W. HERR, Technology.	17 sec.
<i>220-Yard Low Hurdle</i> . . .	R. S. EDWARDS, Bowdoin P. POTTER, Williams. P. P. EDSON, Dartmouth.	26 1-5 sec.
<i>Running High Jump</i> . . .	F. K. BAXTER, Technology E. G. LITTELL, Trinity C. BROWN, Brown . . .	5 ft. 7 1-2 in. } 15 ft. 5 3-4 in.
<i>Running Broad Jump</i> . . .	C. BROWN, Brown . . . T. S. CLINE, Wesleyan . . . B. H. GREENE, Brown . . .	21 ft. 4 in. 20 ft. 10 in. 20 ft. 4 1-2 in.
<i>Pole Vault</i> . . .	J. L. HURLBURT, JR., Wesleyan W. B. CLARK, Bowdoin . . . F. SQUIRES, Williams . . .	10 ft. 6 in. } 10 ft. 0 in.
<i>Putting 16-lb. Shot</i> . . .	J. MELENDY, Brown . . . E. R. GODFREY, Bowdoin . . . A. L. GROVER, Maine . . .	*38 ft. 10 1-2 in. 38 ft. 4 1-2 in. 37 ft. 4 1-2 in.
<i>Throwing 16-lb. Hammer</i> . . .	F. C. INGALLS, Trinity . . . D. H. HALL, Brown . . . F. CORSON, Dartmouth . . .	121 ft. 2 in. 110 ft. 4 in. 98 ft. 1 in.
<i>Throwing Discus</i> . . .	A. L. GROVER, Maine . . . D. H. HALL, Brown . . . P. T. WINSLOW, Amherst . . .	*108 ft. 1-2 in. 103 ft. 7 in. 102 ft. 11 in.

* N. E. I. A. A. record.

† E. G. Littell, Trinity, C. Brown, Brown, and T. S. Cline, Wesleyan, tying at 5 ft. 5 3-4 in., drew for the places with the above result.

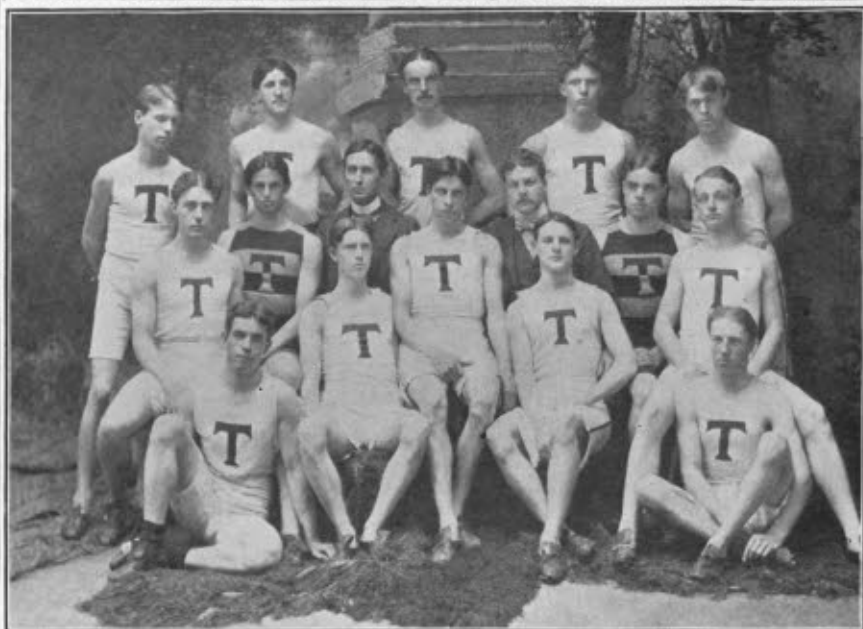
‡ W. B. Clark, Bowdoin, F. Squires, Williams, and R. H. Wilder, Dartmouth, tied at 10 ft. Wilder withdrew, and in the jump off Clark vaulted 9 ft. 9 in. against Squires 9 ft. 6 in.

SUMMARY OF POINTS.

EVENT.	Bow.	Will.	Amh.	Brown.	Wes.	Dart.	Tech.	Trin.	Me.
<i>100-Yard Dash</i> . . .	1	0	5	0	3	0	0	0	0
<i>220-Yard Dash</i> . . .	3	1	5	0	0	0	0	0	0
<i>440-Yard Run</i> . . .	5	1	3	0	0	0	0	0	0
<i>880-Yard Run</i> . . .	0	5	1	0	0	3	0	0	0
<i>One-Mile Run</i> . . .	0	5	0	0	3	1	0	0	0
<i>Two-Mile Run</i> . . .	0	5	1	0	0	3	0	0	0
<i>Two-Mile Bicycle</i> . . .	0	1	3	0	0	0	5	0	0
<i>120-Yard High Hurdle</i> . . .	3	0	0	0	0	5	1	0	0
<i>220-Yard Low Hurdle</i> . . .	5	3	0	0	0	1	0	0	0
<i>Running High Jump</i> . . .	0	0	0	1½	1½	0	5	1½	0
<i>Running Broad Jump</i> . . .	0	0	0	6	3	0	0	0	0
<i>Pole Vault</i> . . .	3	1	0	0	5	0	0	0	0
<i>Putting 16-lb. Shot</i> . . .	3	0	0	5	0	0	0	0	1
<i>Throwing 16-lb. Hammer</i> . . .	0	0	0	3	0	1	0	5	0
<i>Throwing Discus</i> . . .	0	0	1	3	0	0	0	0	5
<i>Totals,</i>	23	22	19	18½	15½	14	11	6½	6

TECNOLOGY TRACK TEAM.

M. I. T.



1899-1900.

FIELD COPP WALTON McDONALD WENTWORTH
HALL GARRETT WINSLOW CORBETT GRANT SEARS
HARR McMASTER BAXTER MURRAY STOCKHAM

TECHNOLOGY TRACK TEAM.

OFFICERS.

Captain.

FRANCIS KERNAN BAXTER, '01.

Manager.

CHARLES WALTER CORBETT, '00.

TEAM.

FRANCIS KERNAN BAXTER, '01. /

GEORGE IRVING COPP, '99.

FRANCIS BIRD DUTTON, '00. /

WARREN ADAMS EDSON, '00.

DAVID DUDLEY FIELD, '02.

WILLIAM WARREN GARRETT, '01.

HARRY LAMAR GRANT, '00.

JOHN WINSLOW HERR, '02.

HARRY PEAKE McDONALD, JR., '01. /

RAY MURRAY, '01. /

ROBERT ANDERSON POPE, '02. /

RUSSELL PARKER PRIEST, '00.

STANLEY COLLAMORE SEARS, '00. /

RALPH LUNT SHEPARD, '01.

ORLANDO SARGENT STOCKMAN, '01.

JAMES HENRY WALTON, JR., '99.

JOHN FRANK WENTWORTH, '00.

CARL WERNER, '99.



DEALET



Edward G. G. 11

TECHNOLOGY vs. BROWN.

Lincoln Field, April 29, 1899.

EVENT.	WINNERS.	TIME, HEIGHT, OR DISTANCE.
100-Yard Dash . . .	J. W. HERR, Technology . . .	10 3-5 sec.
	H. L. GRANT, Technology . . .	
	F. LAWSON, Brown . . .	
220-Yard Run . . .	M. W. HALL, Technology . . .	25 1-5 sec.
	F. B. DUTTON, Technology . . .	
	H. L. GRANT, Technology . . .	
440-Yard Dash . . .	F. B. DUTTON, Technology . . .	55 1-5 sec.
	H. M. MACMASTER, Technology . . .	
	R. P. PRIEST, Technology . . .	
880-Yard Run . . .	D. C. HALL, Brown . . .	2 min. 4 1-5 sec.
	W. W. GARRETT, Technology . . .	
	R. PIERCE, Brown . . .	
One-Mile Run . . .	D. C. HALL, Brown . . .	4 min. 58 1-5 sec.
	D. D. FIELD, Technology . . .	
	S. C. SEARS, Technology . . .	
Two-Mile Run . . .	G. PARKER, Brown . . .	10 min. 56 sec.
	D. C. HALL, Brown . . .	
	O. S. STOCKMAN, Technology . . .	
Two-Mile Bicycle . . .	R. MURRAY, Technology . . .	4 min. 55 sec.
	W. A. EDSON, Technology . . .	
	C. WERNER, Technology . . .	
120-Yard High Hurdle . . .	J. F. WENTWORTH, Technology . . .	16 4-5 sec.
	R. L. SHEPARD, Technology . . .	
	J. W. HERR, Technology . . .	
220-Yard Low Hurdle . . .	J. BIGELOW, Brown . . .	28 3-5 sec.
	J. W. HERR, Technology . . .	
	R. A. POPE, Technology . . .	
Running High Jump . . .	F. K. BAXTER, Technology . . .	5 ft. 8 1-2 in.
	C. BROWN, Brown . . .	5 ft. 5 1-2 in.
	R. A. POPE, Technology . . .	5 ft. 4 1-2 in.
Running Broad Jump . . .	C. BROWN, Brown . . .	20 ft. 1 2-5 in.
	R. A. POPE, Technology . . .	19 ft. 10 9-10 in.
	B. H. GREENE, Brown . . .	19 ft. 1 7-10 in.
Pole Vault . . .	F. K. BAXTER, Technology . . .	9 ft. 9 4-5 in.
	R. A. POPE, Technology . . .	9 ft. 9 4-5 in.
	R. L. SHEPARD, Technology . . .	9 ft. 5 4-5 in.
Putting 16-lb. Shot . . .	J. MELENDY, Brown . . .	36 ft. 3 1-4 in.
	H. P. McDONALD, JR., Technology . . .	35 ft. 2 1-8 in.
	T. SHEEHAN, Brown . . .	34 ft. 8 1-8 in.
Throwing 16-lb. Hammer, . . .	D. H. HALL, Brown . . .	104 ft. 5 1-2 in.
	J. H. WALTON, JR., Technology . . .	90 ft. 7 1-2 in.
	E. G. HAPGOOD, Brown . . .	89 ft. 2 in.
Throwing Discus . . .	D. H. HALL, Brown . . .	100 ft. 11 in.
	C. BROWN, Brown . . .	96 ft. 2 in.
	G. I. COPP, Technology . . .	93 ft. 4 1-2 in.

SUMMARY OF POINTS.

EVENT.	BROWN.	TECH.	EVENT.	BROWN.	TECH.
<i>100-Yard Dash . . .</i>	1	8	<i>Running High Jump . . .</i>	3	6
<i>220-Yard Dash . . .</i>	0	9	<i>Running Broad Jump . . .</i>	6	3
<i>440-Yard Run . . .</i>	0	9	<i>Pole Vault . . .</i>	0	9
<i>880-Yard Run . . .</i>	6	3	<i>Putting 16-lb. Shot . . .</i>	6	3
<i>One-Mile Run . . .</i>	5	4	<i>Throwing 16-lb. Hammer, . . .</i>	6	3
<i>Two-Mile Run . . .</i>	8	1	<i>Throwing Discus . . .</i>	8	1
<i>Two-Mile Bicycle . . .</i>	0	9		—	—
<i>120-Yard High Hurdle . . .</i>	0	9	<i>Totals,</i>	54	81
<i>220-Yard Low Hurdle . . .</i>	5	4			

1901 TRACK TEAM.

M. I. T.



1899 - 1900.

SHEPARD BAXTER WILDER
FLEMING COLMAN McDONALD HAYDEN
GARRETT DEARDEN MURRAY MAXSON STOCKMAN



CHAMPION OF THE CLASSES 1899-1900.

OFFICERS.

Captain.

RAY MURRAY.

Manager.

ORLANDO SARGENT STOCKMAN.

TEAM.

FRANCIS KERNAN BAXTER.

JEREMIAH COLMAN, JR.

CLINTON MERRILL DEARDEN.

EDWARD PICKERING FLEMING.

WILLIAM WARREN GARRETT.

ARTHUR GUNDERSON HAYDEN.

HARRY PEAKE McDONALD, JR.

RAY MURRAY.

RALPH LUNT SHEPARD.

ORLANDO SARGENT STOCKMAN.

LOWELL BOSWORTH WILDER.

FALL HANDICAP GAMES.

Holmes' Field, October 21, 1899.

EVENT.	WINNERS.	HANDICAP.	TIME, HEIGHT, OR DISTANCE.
<i>100-Yard Dash</i>	R. B. LOWE, '02, 5 yards A. W. ROWE, '01, 3 yards. J. F. WENTWORTH, '00, scratch.		10 3-5 sec.
<i>220-Yard Dash</i>	A. W. ROWE, '01, 6 yards. K. T. STOW, '02, 11 yards M. W. HALL, '00, scratch.		23 4-5 sec.
<i>440-Yard Run</i>	W. P. R. PEMBER, '02, 15 yards W. W. GARRETT, '01, scratch. R. D. MORRIS, '03, 20 yards.		55 sec.
<i>880-Yard Run</i>	W. W. GARRETT, '01, scratch O. H. PERRY, JR., '01, 45 yards.		2 min. 19 sec.
<i>One-Mile Run</i>	K. T. STOW, '02, 50 yards S. C. SEARS, '00, scratch. F. H. HUNTER, '02, 70 yards.		5 min. 0 sec.
<i>Two-Mile Run</i>	D. D. FIELD, '02, scratch F. H. HUNTER, '02, 125 yards. O. S. STOCKMAN, '01, 40 yards.		11 min. 16 1-5 sec.
<i>Two-Mile Bicycle</i>	R. MURRAY, '01, scratch A. J. EVELAND, '01, 35 yards. R. B. CLARK, '01, 60 yards.		5 min. 18 sec.
<i>40-Yard High Hurdle</i>	J. F. WENTWORTH, '00, scratch E. S. BAKER, '02, 4 feet. R. B. LOWE, '02, 3 feet.		5 4-5 sec.
<i>35-Yard Low Hurdle</i>	R. A. POPE, '02, scratch J. F. WENTWORTH, '00, scratch. E. S. BAKER, '02, 4 feet.		5 4-5 sec.
<i>Running High Jump</i>	J. F. WENTWORTH, '00, 5 inches H. T. WINCHESTER, '03, 4 inches L. B. WILDER, '01, 7 inches		5 ft. 8 in. 5 ft. 4 in. 5 ft. 4 in.
<i>Running Broad Jump</i>	J. F. WENTWORTH, '00, 1 foot 6 inches L. B. WILDER, '01, 1 foot 6 inches G. H. GLEASON, '03, 2 feet 0 inches		20 ft. 6 in. 20 ft. 3 in. 20 ft. 2 in.
<i>Pole Vault</i>	F. K. BAXTER, '01, scratch C. W. KELLOGG, JR., '02, 6 inches E. S. BAKER, '03, 4 inches		9 ft. 4 in. 9 ft. 3 in. 8 ft. 7 in.
<i>Putting 16-lb. Shot</i>	H. T. WINCHESTER, '03, 4 feet H. C. MARCUS, '01, 7 feet J. F. WENTWORTH, '00, 5 feet		37 ft. 8 1-2 in. 37 ft. 4 in. 37 ft. 1 1-4 in.
<i>Throwing 16-lb. Hammer</i>	J. B. LAWS, '01, 10 feet H. T. WINCHESTER, '03, 10 feet A. J. EVELAND, '01, 25 feet		94 ft. 10 in. 73 ft. 8 1-2 in. 69 ft. 7 1-4 in.
<i>Throwing Discus</i>	H. C. MARCUS, '01, 23 feet H. T. WINCHESTER, '03, 10 feet L. B. WILDER, '01, 20 feet		104 ft. 7 3-4 in. 96 ft. 10 1-2 in. 93 ft. 4 1-4 in.

ANNUAL INDOOR GAMES.

Technology Gymnasium, December 22, 1899.

EVENT.	WINNERS.	TIME, HEIGHT, OR DISTANCE.
<i>35-Yard Dash</i>	J. F. WENTWORTH, '00 M. W. HALL, '00. R. V. BROWN, '02.	4 2-5 sec.
<i>Potato Race</i>	H. M. MACMASTER, '00 R. A. POPE, '02. E. S. BAKER, '02.	38 sec.
<i>35-Yard Low Hurdle</i>	J. F. WENTWORTH, '00* W. E. CALLEY, '03. R. A. POPE, '02.	4 4-5 sec.
<i>Running High Jump</i>	F. K. BAXTER, '01 J. F. WENTWORTH, '00 R. A. POPE, '02	5 ft. 8 3-4 in. 5 ft. 4 1-2 in. 5 ft. 3 1-4 in.
<i>Standing Broad Jump</i>	F. K. BAXTER, '01 L. B. WILDER, '01 C. A. SAWYER, '02	9 ft. 9 1-4 in. 9 ft. 3 1-4 in. 9 ft. 2 1-4 in.
<i>Fence Vault</i>	H. M. MACMASTER, '00 F. N. CONANT, '00 F. K. BAXTER, '01	6 ft. 4 1-2 in. 6 ft. 3 in. 6 ft. 1 1-2 in.
<i>Putting 16-lb. Shot</i>	H. P. McDONALD, JR, '01 H. T. WINCHESTER, '03 E. B. CRANE, '02	36 ft. 6 1-2 in. 34 ft. 10 1-2 in. 34 ft. 4 1-4 in.

Class Relay Race, 35-yard relays, won by 1902; 1900, second; 1903, third. Time, 17 2-5 sec.

* J. F. Wentworth, '00, and W. E. Calley, '03, tied for first place, and drew for the places with the above result.

ANNUAL SPRING GAMES.

Charlesbank, May 6, 1899.

EVENT.	WINNERS.	TIME, HEIGHT, OR DISTANCE.
100-Yard Dash . . .	J. F. WENTWORTH, '00 . . . H. L. GRANT, '00. J. W. HERR, '02.	10 2-5 sec.
220-Yard Dash . . .	F. B. DUTTON, '00* . . . M. W. HALL, '00. H. L. GRANT, '00.	25 sec.
440-Yard Run . . .	F. B. DUTTON, '00 . . . J. COLEMAN, '01. R. P. PRIEST, '00.	55 sec.
880-Yard Run . . .	W. W. GARRETT, '01 . . . A. I. DUTTON, '02. R. P. PRIEST, '00.	2 min. 12 sec.
One-Mile Run . . .	S. C. SEARS, '00 . . . D. D. FIELD, '02. G. W. EMERY, '00.	5 min. 5 4-5 sec.
Two-Mile Run . . .	D. D. FIELD, '02 . . . O. S. STOCKMAN, '01. C. M. DEARDEN, '01.	10 min. 45 4-5 sec.
Two-Mile Bicycle . . .	R. MURRAY, '01 . . . C. WERNER, '99. J. E. STEEVER, '02.	14 min. 30 sec.
‡120-Yard High Hurdle.	J. F. WENTWORTH, '00 . . . R. L. SHEPARD, '01. J. W. HERR, '02.	16 4-5 sec.
110-Yard Low Hurdle .	J. W. HERR, '02 . . . R. L. SHEPARD, '01. R. A. POPE, '02.	12 4-5 sec.
Running High Jump .	F. K. BAXTER, '01 . . . R. A. POPE, '02 . . . J. F. WENTWORTH, '00 . . .	5 ft. 7 in. 5 ft. 5 in. 5 ft. 3 in.
Running Broad Jump .	F. K. BAXTER, '01 . . . R. A. POPE, '02 . . . J. W. HERR, '02 . . .	19 ft. 8 in. 19 ft. 4 in. 19 ft. 1-4 in.
Pole Vault . . .	F. K. BAXTER, '01 . . . R. A. POPE, '02 . . . R. L. SHEPARD, '01 . . .	9 ft. 10 in. 9 ft. 4 in. 9 ft. 0 in.
Putting 16-lb. Shot .	E. B. CRANE, '02 . . . H. P. McDONALD, JR., '01 . . . F. K. BAXTER, '01 . . .	35 ft. 3 1-2 in. 33 ft. 5 in. 30 ft. 11 1-2 in.
Throwing 16-lb. Hammer.	J. H. WALTON, JR., '99 . . . J. W. BROWN, '00 . . . J. F. WENTWORTH, '00 . . .	94 ft. 8 1-2 in. 77 ft. 7 in. 67 ft. 2 1-2 in.
Throwing Discus . . .	E. P. FLEMING, '01 . . . G. I. COPP, '99 . . . H. P. McDONALD, JR., '01 . . .	93 ft. 7 in. 90 ft. 2 1-2 in. 89 ft. 1 in.

*F. B. Dutton, '00, and M. W. Hall, '00, tied, and drew for the places with the above result.

†Technology record.

‡This event was also the final heat of the 120-yard high hurdle at the Brown-Technology Meet, only Technology men having qualified in the trial heats at Brown.

ANNUAL CROSS-COUNTRY RUN.

March 25, 1899.

Course, 4 3-4 miles.

PLACE.	NAME.	TIME.
<i>First</i>	O. S. STOCKMAN, '01	28 min. 15 2-5 sec.
<i>Second</i>	C. M. DEARDEN, '01.	
<i>Third</i>	A. G. HAYDEN, '01.	

SUMMARY OF POINTS FOR THE CHAMPIONSHIP OF THE CLASSES FOR THE YEAR 1898-1899.

CHAMPIONSHIP WON BY THE CLASS OF 1901.

Fall Handicap Games, Holmes' Field, October 29, 1899.

	'99	'00	'01	'02		'99	'00	'01	'02
100-Yard Dash . . .	3	5	0	1	220-Yard Low Hurdle,	5	1	0	3
220-Yard Dash . . .	3	6	0	0	Running High Jump .	0	0	5	4
440-Yard Run . . .	0	5	3	0	Running Broad Jump,	0	1	5	3
880-Yard Run . . .	0	0	8	1	Pole Vault . . .	0	0	8	0
One-Mile Run . . .	5	0	1	3	Putting 16-lb. Shot .	1	3	0	5
Two-Mile Run . . .	5	0	3	1	Throwing 16-lb. Hammer,	5	4	0	0
120-Yard High Hurdle,	0	3	0	5	Throwing Discus . .	1	3	5	0
						28	31	38	26

Annual Indoor Games, Technology Gymnasium, December 17, 1899.

	'99	'00	'01	'02		'99	'00	'01	'02
35-Yard Dash . . .	0	3	1	5	Standing Broad Jump,	0	0	8	1
Potato Race . . .	0	4	0	5	Pole Vault . . .	0	0	7	2
35-Yard Low Hurdle .	0	1	3	5	Fence Vault . . .	5	4	0	0
Running High Jump .	$\frac{1}{2}$	3	5	$\frac{1}{2}$	Putting 16-lb. Shot .	5	0	1	3
						10 $\frac{1}{2}$	15	25	21 $\frac{1}{2}$

Annual Spring Games, Charlesbank, May 6, 1899.

	'99	'00	'01	'02		'99	'00	'01	'02
100-Yard Dash . . .	0	8	0	1	110-Yard Low Hurdle,	0	0	3	6
220-Yard Dash . . .	0	9	0	0	Running High Jump .	0	1	5	3
440-Yard Run . . .	0	6	3	0	Running Broad Jump,	0	0	5	4
880-Yard Run . . .	0	1	5	3	Pole Vault . . .	0	0	6	3
One-Mile Run . . .	0	6	0	3	Putting 16-lb. Shot .	0	0	4	5
Two-Mile Run . . .	0	0	4	5	Throwing 16-lb. Hammer,	5	4	0	0
Two-Mile Bicycle . .	3	0	5	1	Throwing Discus . .	3	0	6	0
120-Yard High Hurdle,	0	5	3	1		11	40	49	35

Annual Cross-Country Run, March 25, 1899. Course, 4 3-4 Miles.

	'99	'00	'01	'02				
	0	0	9	0				
					Firsts.	Seconds.	Thirds.	Total of Points.
Class of '01 . . .					15	12 $\frac{1}{2}$	8 $\frac{1}{2}$	121
Class of '00 . . .					8	11	13	86
Class of '02 . . .					8	10 $\frac{1}{2}$	11	82 $\frac{1}{2}$
Class of '99 . . .					7	4	2 $\frac{1}{2}$	49 $\frac{1}{2}$

(First place counts 5 points, second place 3, and third place 1.)

SUMMARY OF POINTS FOR INDIVIDUAL EXCELLENCE.

N. E. I. A. A. Meet, first place counts 15 points; second, 9; third, 3.

Dual Meet, first place counts 10 points; second, 6; third, 2.

Technology Games, first place counts 5 points; second, 3; third, 1.

Trophies presented to Technology Point Winners.

The Cup presented by Mr. George B. Burch to the winner of the greatest number of points.

Won by F. K. BAXTER, '01—76 points.

The Cup presented by Mr. George B. Burch to the winner of the greatest number of points in the Weight Events.

Won by J. H. WALTON, '99—16 points.

The Trophy presented by Mr. Frank H. Briggs, '81, to the Freshman winning the greatest number of points in Technology Games.

Won by J. W. HORR, '02—36 points.

	Points.		Points.
F. K. BAXTER, '01	76	H. T. WINCHESTER, '02	8
J. W. HORR, '02	56	S. C. SEARS, '00	7
J. F. WENTWORTH, '00	34	J. COLMAN, JR., '01	6
F. B. DUTTON, '00	31	W. A. EDSON, '00	6
R. MURRAY, '01	30	W. B. FLYNN, '99	5
M. W. HALL, '00	28	F. H. LATHROP, '01	5
R. A. POPE, '02	22½	C. WERNER, '99	5
R. L. SHEPARD, '01	21	C. M. DEARDEN, '01	4
D. D. FIELD, '02	18	R. P. PRIEST, '00	4
J. H. WALTON, JR., '99	16	J. W. BROWN, '00	3
E. P. FLEMING, '01	15	A. I. DUTTON, '02	3
W. W. GARRETT, '01	14	L. B. WILDER, '01	3
O. S. STOCKMAN, '01	14	G. W. EMERY, '00	2
H. L. GRANT, '00	12	F. L. H. KIMBALL, '99	2
H. M. MACMASTER, '00	12	F. N. CONANT, '00	1
G. P. BURCH, '99	11	A. G. HAYDEN, '01	1
H. P. McDONALD, JR., '01	11	W. P. R. PEMBER, '02	1
G. I. COPP, '99	10	P. L. PRICE, '00	1
D. M. PRAY, '99	10	J. E. STEEVER, '02	1
E. B. CRANE, '02	8	A. C. WOOD, '02	1
M. S. SHERRIL, '99	1		

TECHNOLOGY RELAY TEAM.

M. I. T.



1899 - 1900.

MCMASTER MALL GARRETT PRIEST
BROWN (TRAINER)



The Relay Team

Captain.

MILTON WESTON HALL, '00.

Team.

WILLIAM WARREN GARRETT, '01

MILTON WESTON HALL, '00.

HERBERT MILTON MACMASTER, '00.

RUSSELL PARKER PRIEST, '00.

ROBERT ANDERSON POPE, '02.

SCHEDULE OF RACES.

Technology vs. Columbia University, Mechanics Hall, Boston, March 4, 1899.

Won by Technology. Time, 3 min. 14 2-5 sec.

The men ran in the following order: HALL, MACMASTER, PRIEST, GARRETT.

Technology vs. Bowdoin, Mechanics Hall, Boston, February 3, 1900.

Won by Bowdoin. Time, 3 min. 17 2-5 sec.

The men ran in the following order: HALL, POPE, MACMASTER, GARRETT.

RECORDS



ATHLETIC RECORDS.

TECHNOLOGY.

EVENT.	WINNERS.	TIME, HEIGHT, OR DISTANCE.
100-Yard Dash . . .	R. W. CARR, '95 . . .	10 2-5 sec.
220-Yard Dash . . .	R. W. CARR, '95 . . .	23 sec.
440-Yard Run . . .	J. A. ROCKWELL, '96 . . .	51 1-5 sec.
880-Yard Run . . .	T. SPENCER, '91 . . .	2 min. 6 2-5 sec.
One-Mile Run . . .	G. CLAPP, '95 . . .	4 min. 37 4-5 sec.
Two-Mile Run . . .	D. M. PRAY, '99 . . .	10 min. 44 4-5 sec.
Two-Mile Bicycle . . .	R. MURRAY, '01 . . .	4 min. 50 sec.
120-Yard High Hurdle .	B. HURD, JR., '96 . . .	16 3-5 sec.
220-Yard Low Hurdle .	G. P. BURCH, '99 . . .	25 4-5 sec.
Running High Jump . .	C. D. HEYWOOD, '93 . . .	6 ft. 12 in.
Running Broad Jump . .	A. W. GROSVENOR, '99 . . .	22 ft. 1 1-2 in.
Pole Vault . . .	J. CRANE, JR., '92 . . .	10 ft. 7 in.
Putting 16-lb. Shot . .	H. W. JONES, '98 . . .	37 ft. 8 3-4 in.
Throwing 16-lb. Hammer,	H. W. JONES, '98 . . .	107 ft. 10 1-2 in.
Throwing Discus . . .	G. I. COPP, '99 . . .	97 ft. 7 1-2 in.

N. E. I. A. A.

EVENT.	WINNERS.	TIME, HEIGHT, OR DISTANCE.
100-Yard Dash . . .	A. CURTENIUS, Amherst, 1898 . . .	10 sec.
220-Yard Dash . . .	H. C. IDE, Dartmouth, 1892 . . .	22 3-5 sec.
440-Yard Run . . .	G. B. SHATTUCK, Amherst, 1891 . . .	50 1-5 sec.
880-Yard Run . . .	D. C. HALL, Brown, 1898 . . .	2 min.
One-Mile Run . . .	A. L. WRIGHT, Brown, 1898 . . .	4 min. 24 3-5 sec.
Two-Mile Run . . .	O. N. BEAN, Brown, 1898 . . .	10 min. 3 4-5 sec.
Two-Mile Bicycle . . .	R. MURRAY, Technology, 1898 . . .	5 min. 17 3-5 sec.
120-Yard High Hurdle .	S. CHASE, Dartmouth, 1895 . . .	15 3-5 sec.
220-Yard Low Hurdle .	G. P. BURCH, Technology, 1898 . . .	25 4-5 sec.
Running High Jump . .	I. K. BAXTER, Trinity, 1896 . . .	5 ft. 9 3-4 in.
Running Broad Jump . .	S. CHASE, Dartmouth, 1895 . . .	22 ft. 3 in.
Pole Vault . . .	J. L. HURLBURT, JR., Wesleyan, 1898 . . .	11 ft. 6 1-2 in.
Putting 16-lb. Shot . .	J. MELENDY, Brown, 1899 . . .	38 ft. 10 1-2 in.
Throwing 16-lb. Hammer,	F. E. SMITH, Brown, 1896 . . .	133 ft. 8 in.
Throwing Discus . . .	A. L. GROVER, Maine, 1899 . . .	108 ft. 1-2 in.

ATHLETIC RECORDS

CONTINUED.

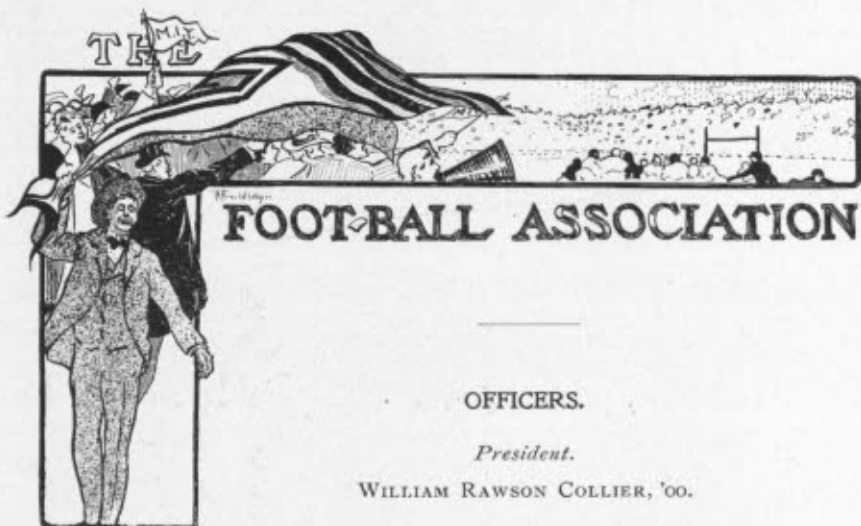
WORLD.

EVENT.	WINNERS.	TIME, HEIGHT, OR DISTANCE.
100-Yard Dash . . .	J. OWEN, JR., Washington, 1890 . . .	9 4-5 sec.
220-Yard Dash . . .	B. J. WEFERS, Berkeley Oval, 1896 . . .	21 1-5 sec.
440-Yard Run . . .	W. BAKER, Boston, 1886 . . .	47 3-4 sec.
880-Yard Run . . .	C. H. KILPATRICK, New York, 1895, . . .	1 min. 53 2-5 sec.
One-Mile Run . . .	T. P. CONNEFF, Travers Island, 1895, . . .	4 min. 15 3-5 sec.
Two-Mile Run . . .	W. G. GEORGE, England, 1884 . . .	9 min. 17 2-5 sec.
Two-Mile Bicycle . . .	J. G. HEIL, Denver, 1897 . . .	4 min. 27 3-5 sec.
120-Yard High Hurdle . . .	A. C. KRAENZLEIN, Chicago, 1898 . . .	15 1-5 sec.
220-Yard Low Hurdle . . .	A. C. KRAENZLEIN, Berkeley Oval, 1898 . . .	23 3-5 sec.
Running High Jump . . .	M. F. SWEENEY, Manhattan Field, 1895, . . .	6 ft. 5 5-8 in.
Running Broad Jump . . .	A. C. KRAENZLEIN, New York, 1899 . . .	24 ft. 4 1-2 in.
Pole Vault . . .	R. G. CLAPP, Chicago, 1898 . . .	11 ft. 10 1-2 in.
Putting 16-lb. Shot . . .	G. R. GRAY, Chicago, 1893 . . .	47 ft.
Throwing 16-lb. Hammer, . . .	J. FLANAGAN, New York, 1899 . . .	167 ft. 8 in.
Throwing Discus . . .	R. SHELDON, Riverside, 1899 . . .	122 ft. 5-8 in.

SPECIAL EVENTS AT TECHNOLOGY.

EVENT.	WINNERS.	TIME, HEIGHT, OR DISTANCE.
20-Yard Dash . . .	F. W. LORD, '94 . . .	3 sec.
35-Yard Dash . . .	A. W. GROSVENOR, '99 . . .	*4 sec.
Potato Race . . .	J. A. ROCKWELL, JR., '96 . . .	50 1-5 sec.
Cross-Country Run (5 m.), . . .	H. A. B. CAMPBELL, '99 . . .	27 min. 58 sec.
35-Yard Low Hurdle . . .	J. W. HERR, '02 . . .	4 3-5 sec.
Standing High Jump . . .	F. R. YOUNG, '86 . . .	4 ft. 10 in.
Standing Broad Jump . . .	L. BURNETT, '96 . . .	10 ft. 1 1-2 in.
Standing Broad Jumps (3), . . .	E. A. BOESKE, '95 . . .	32 ft. 8 1-8 in.
Fence Vault . . .	A. H. GREEN, '96 . . .	7 ft. 2 1-4 in.
Running High Kick . . .	C. D. HEYWOOD, '93 . . .	9 ft. 3 1-2 in.
Rope Climb . . .	H. L. BODWELL, '98 . . .	5 2-5 sec.
Relay Race (1560 yds.) . . .	<div style="display: inline-block; vertical-align: middle;"> <div style="display: flex; align-items: center;"> <div style="font-size: 3em; margin-right: 5px;">{</div> <div style="margin: 0;"> M. W. HALL, '00 H. M. MACMASTER, '00 R. P. PRIEST, '00 W. W. GARRETT, '01 </div> </div> </div>	3 min. 14 2-5 sec.

* World's record.



OFFICERS.

President.

WILLIAM RAWSON COLLIER, '00.

Vice President.

CHARLES CALVIN BRIGGS, '00.

Secretary-Treasurer.

PAUL GERHARD L. HILKEN, '01.

Captain of Team.

HENRY DETRICK JOUETT, '00.

Manager

WILLIAM RAWSON COLLIER, '00.

Assistant Manager.

WARREN IRA BICKFORD, '01.

Executive Committee.

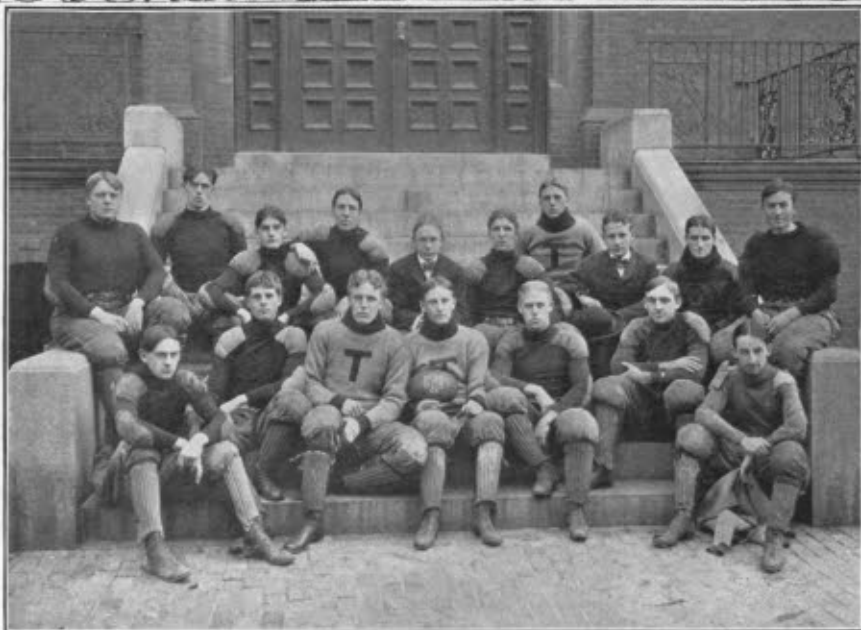
STEPHEN PEARSON BROWN, '00.

CARL THOMPSON BILVEA, '01.

ALFRED WARREN ALLYN, '02.

TECH. FOOT BALL TEAM

M. I. T.



1899 - 1900.

EVANS WOOD DERBY MAXSON SEYMS
LAWS CAPELLE COLLIER BICKFORD SHEPARD
STORER GODFREY McDONALD JOUETT ALLYN POND MCCARTHY

VARSIITY



OFFICERS.

Captain.

HENRY DETRICK JOUETT, '00.

Manager.

WILLIAM RAWSON COLLIER, '00.

Assistant Manager.

WARREN IRA BICKFORD, '01.

Coach.

MR. WRIGHTINGTON.

TEAM.

RALPH LUNT SHEPARD, '01	. . . . .	Right End.
ROBERT MASON DERBY, '01	. . . . .	Right Tackle.
WILLIAM HAINES EVANS, '03	. . . . .	Right Guard.
JAMES BRADFORD LAWS, '01	. . . . .	Center.
MARSHALL HARRIS WASHBURN, '03	}	Left End.
HARRY WINTHROP MARCH STORER, '02		
GEORGE BEACH SEYMS, '03	. . . . .	Left Tackle.
HARRY PEAKE McDONALD, JR., '01	. . . . .	Left Guard.
HARRY WESCOTE MAXSON, '01	. . . . .	Quarter Back.
ALFRED WARREN ALLYN, '02	. . . . .	Right Half Back.
HENRY DETRICK JOUETT, '00	. . . . .	Left Half Back.
HARRY BRADFORD POND, '02	. . . . .	Full Back.

Substitutes.

CHARLES EMMET MCCARTHY, '02.

GEORGE BABCOCK WOOD, '03.

GEORGE CURTIS CAPELLE, '03.

OTIS INGRAHAM GODFREY, '03.

SCHEDULE OF GAMES.

				SCORE
October	7.	Technology <i>vs.</i> New Hampshire State College, at Durham	.	6-5
October	11.	Technology <i>vs.</i> Boston College, at Boston	.	0-24
October	18.	Technology <i>vs.</i> Exeter, at Exeter	.	0-24
October	21.	Technology <i>vs.</i> Wesleyan, at Middletown	.	6-44
October	25.	Technology <i>vs.</i> Tufts, at Tufts	.	0-29
October	28.	Technology <i>vs.</i> Worcester Polytechnic Institute, at Worcester	.	6-6
November	4.	Technology <i>vs.</i> Amherst, at Amherst	.	5-12
November	8.	Technology <i>vs.</i> Tufts, at Boston	.	6-10
November	11.	Technology <i>vs.</i> Brown University, at Providence	.	0-38

Games won, 1. Games lost, 7. Games tied, 1.

Total points scored by Technology, 29.

Total points scored by opponents, 192.

Percentage of games won, 16.67.



South End Grounds, November 17, 1899.

CLASS OF 1902 *vs.* CLASS OF 1903.

Won by the Class of 1902.

1902, 20 hands; 1903, 17 hands.

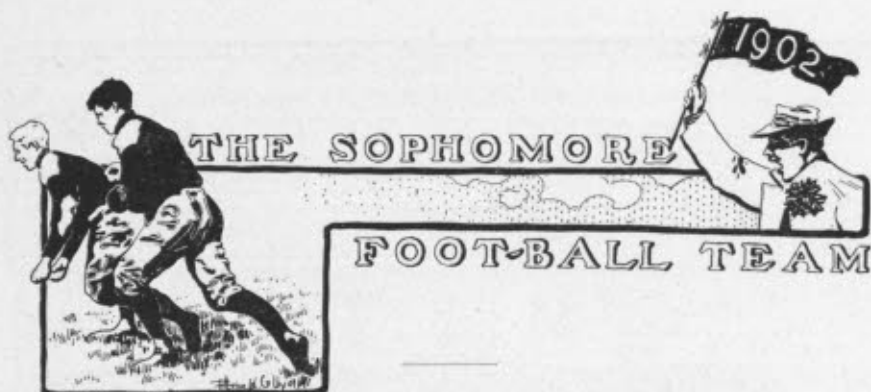
1902 FOOT BALL TEAM

M. I. T.



1899 - 1900.

SAWYER
HADCOCK FISH FRENCH HOOKER CHALIFOUX
REYNOLDS SMITH TURNER MANSFIELD FINNERAN
BAKER FOTE



Captain.

Manager.

WILLIAM BURNS MANSFIELD. ARTHUR HAROLD SAWYER.

TEAM.

HENRY KEENE HOOKER	. . . . .	Right End.
THOMAS ALPHONSUS FINNERAN	. . . . .	Right Tackle.
GEORGE HENRY FRENCH	. . . . .	Right Guard.
PAUL ERNEST CHALIFOUX	. . . . .	Center.
CHARLES ALFRED SMITH	. . . . .	Left End.
IRVING WOOD REYNOLDS	. . . . .	Left Tackle.
EDWARD WEBSTER HADCOCK	. . . . .	Left Guard.
WILLIAM BURNS MANSFIELD	. . . . .	Quarter Back.
CHARLES ADRIAN SAWYER, JR.	. . . . .	Right Half Back.
HAROLD COBURN FISH	. . . . .	Left Half Back.
FRANCIS ALOYSIUS NAGLE	. . . . .	Full Back.

Substitutes.

THOMAS WITHERBEE FOOTE.

CHARLES GALLOUPE MIXTER.

ROBERT ANDERSON POPE.

JOHN BICE TURNER.

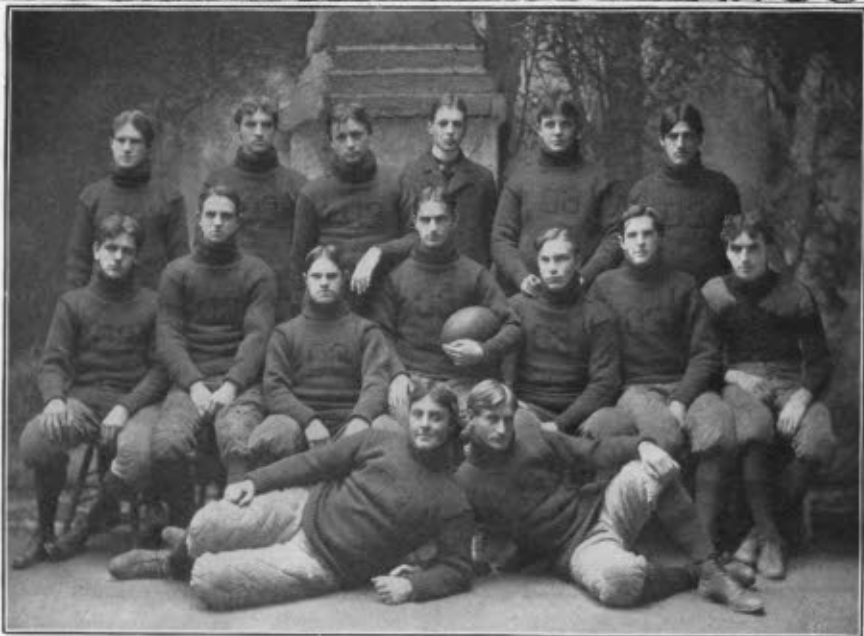
SCHEDULE OF GAMES.

		SCORE.
November 4.	Technology 1902 vs. Salem High School	0-0
November 17.	Technology 1902 vs. Technology 1903	39-0

Percentage of games won, 75.

1903 FOOT BALL TEAM

M. I. T.



1899 - 1900.

McKELVEY MITCHELL MEARS GILSON MURRAY CROCKER
HATCH ALLEN BAY PARKER CHENEY GARCELON LEWIS
ROBERTS BABCOCK



The Freshman Football Team



T. H. Emerson

OFFICERS.

Captain.

PAUL REVERE PARKER.

Manager.

JOHN LAWRENCE GILSON.

TEAM.

ARTHUR BENJAMIN ALLEN	. . . . .	Right End.
CHARLES HORATIO ROBERTS	. . . . .	Right Tackle.
WILLIAM EDWARD MITCHELL	. . . . .	Right Guard.
JOSEPH ARCHIBALD MEARS	. . . . .	Center.
FREDERICK WILLIAM CROCKER	. . . . .	Left End.
OTTO FAELTEN	. . . . .	Left Tackle.
JOSEPH JOHN MURRAY	. . . . .	Left Guard.
MELLEN CHAMBERLAIN MASON HATCH	. . . . .	Quarter Back.
WILLIAM JOHNSTON BAY	. . . . .	Right Half Back.
VAN IRVING NETTLETON	. . . . .	Left Half Back.
PAUL REVERE PARKER	. . . . .	Full Back.

Substitutes.

FRANK GILBERT BABCOCK.

JOHN TYRREL CHENEY.

GEORGE HOLLAND GARCELON.

WILLIAM REMSEN LEWIS.

LUCIUS BLAINE MCKELVEY.

GAME.

November 17. Technology 1903 vs. Technology 1902	. . . . .	SCORE.
		0-39

1901 BASE BALL TEAM

M. I. T.



1899-1900

BIGELOW ADAMS SABIN MANSFIELD MARTIN
WHITON SVCR FLORESAHEIM WOOD WILDER

1902 BASE BALL TEAM

M. I. T.



1899 - 1900.

FRANKLIN ODELL PLACE
FISH GANNETT POND SAWYER FOOTE
MANSFIELD

BASEBALL TEAM.

Captain.

HARRY BRADFORD POND.

Manager.

CHARLES ADRIAN SAWYER, JR.

TEAM.

HARRY BRADFORD POND . . .	Pitcher.
FARLEY GANNETT . . .	Catcher.
JOHN RIPLEY ODELL . . .	First Base
CHARLES ADRIAN SAWYER .	Second Base.
WILLIAM BURNS MANSFIELD .	Short Stop.
CLYDE RICHMOND PLACE .	Third Base.
HAROLD COBURN FISH . . .	Left Field.
RALPH STOWELL FRANKLIN .	Center Field.
ARTHUR STEVENS LITTLEFIELD,	Right Field.

Substitute.

THOMAS WITHERBEE FOOTE.

SCHEDULE OF GAMES.

	SCORE.
APRIL 8.	
M. I. T. 1902 vs. Arlington High School,	9-5
APRIL 12.	
M. I. T. 1902 vs. Brookline High School,	19-17
APRIL 17.	
M. I. T. 1902 vs. Hopkinson School,	24-13
APRIL 22.	
M. I. T. 1902 vs. St. Mark's,	9-11
APRIL 27.	
M. I. T. 1902 vs. Harvard 1902,	7-10
MAY 3.	
M. I. T. 1902 vs. Groton,	4-9
MAY 6.	
M. I. T. 1902 vs. Thayer Academy,	5-16
MAY 8.	
M. I. T. 1902 vs. Tufts 1902,	14-6
MAY 10.	
M. I. T. 1902 vs. Watertown High School,	14-7
MAY 13.	
M. I. T. 1902 vs. M. I. T. 1901,	4-6
Percentage of games won, 50.	





OFFICERS.

Captain.

ORLANDO SARGENT STOCKMAN, '01.

Secretary-Treasurer.

FREDERICK HUSTON HUNTER, '02.

MEMBERS.

REUBEN WILFRID BALCOMB, '00.
 JAMES HERVEY BATCHELLER, '00.
 CLINTON MERRILL DEARDEN, '01.
 GEORGE CROCKER GIBBS, 3D, '00.
 ALBERT WILLIS HIGGINS, '01.
 FREDERICK HUSTON HUNTER, '02.
 FREDERICK DU BOIS INGALLS, '00.
 GYULA BENNETT MANSON, '03.
 DANIEL ELLWOOD MAXFIELD, '00.
 WALTER PURTON ROSS PEMBER, '02.

ROLAND BALL PENDERGAST, '02.
 FRANKLIN HOLMES REED, '02.
 CHESTER AUGUSTUS RICHARDSON, '00.
 GEORGE EDMOND RUSSELL, '00.
 KENNETH SEAVER, '00.
 ORLANDO SARGENT STOCKMAN, '01.
 RUSSELL SUTER, '00.
 WILLIAM WATERMAN, JR., '02.
 HARRY RANSOME WHITE, '01.
 PHILIP HENRY WORCESTER, '02.

HARE AND HOUNDS RUNS.

March 11, 1899, from Chestnut Hill. Trail, 4 miles.
 April 1, 1899, from Chestnut Hill. Trail, 7 miles.
 April 8, 1899, from Somerville. Trail, 7 miles.
 November 4, 1899, from Wellesley Hills. Trail, 6 miles.
 November 25, 1899, from Newton Center. Trail, 7 miles.
 December 9, 1899, from Chestnut Hill. Trail, 8 miles.
 December 16, 1899, from Wellesley Hills. Trail, 7 miles.

NEW ENGLAND INTERCOLLEGIATE LAWN TENNIS ASSOCIATION.

OFFICERS.

President.

E. GORDON THATCHER, Technology.

Vice President.

A. L. DANA, Bowdoin.

Secretary-Treasurer.

E. TUDOR GROSS, Brown.

MEMBERS.

Amherst.	Brown.	Technology.	Vermont.
Bates.	Colby.	Trinity.	Wesleyan.
Bowdoin.	Dartmouth.	Tufts.	Williams.



OFFICERS.

President.

E. GORDON THATCHER, '01.

Vice President.

LAMMOT DU PONT, '01.

Secretary-Treasurer.

EDWARD H. CUTLER, '02.

Board of Directors.

N. LORING DANFORTH, '01.

FRANKLIN BRADLEY, '02.

JOSEPH R. JONES, '03.

MEMBERS.

H. E. ASHLEY, '00.
S. BADLAM, '00.
D. M. BELCHER, '02.
F. BRADLEY, '02.
P. R. BROOKS, '00.
J. R. BROWNELL, '00.
A. W. BURNHAM, '03.
C. C. BRIGGS, JR., '00.
H. S. CONANT, '00.
J. W. CROSBY, '03.
E. H. CUTLER, '02.
W. M. CURTIS, '01.
N. L. DANFORTH, '01.

A. C. DART, '00.
L. DU PONT, '01.
A. W. FRIEND, '02.
M. B. FOSTER, '01.
H. H. HOWE, '00.
A. K. ISHAM, '01.
J. L. JONES, '02.
J. R. JONES, '03.
A. S. LEAVITT, '03.
F. C. LINCOLN, '00.
L. W. MILLAR, '01.
F. O. MILLER, '02.
R. J. MONTGOMERY, '01.
M. L. NAGEL, '02.

A. W. PETERS, '01.
R. ROOT, '00.
H. H. SAYLOR, '02.
A. L. SHEPARD, '01.
W. H. SEARS, '02.
C. H. SHIVERS, '01.
K. F. STOW, '02.
R. H. STEARNS, '01.
E. G. THATCHER, '01.
W. W. WHIPPLE, '01.
C. A. WHITEMORE, '01.
F. W. WITHERELL, '00.
A. G. WOOD, '02.

Members Spring Tournament, 1899.

Singles.

E. H. CUTLER, '02, defeated J. R. BROWNELL, '00,—6-2; 6-1; 2-6; 6-0.

Doubles.

E. G. THATCHER, '01, and D. M. BELCHER, '02, defeated E. H. CUTLER, '02, and J. R. BROWNELL, '00,—6-3; 5-7; 6-4; 2-6; 8-6.

Open Fall Tournament, 1899.

Singles.

FRANKLIN BRADLEY, '02, defeated E. G. THATCHER, '01,—6-4; 7-5; 6-3.

Doubles.

E. G. THATCHER, '01, and D. M. BELCHER, '02, defeated H. H. SAYLOR, '02, and A. G. WOOD, '02,—4-6; 5-7; 6-3; 8-6; 6-2.



OFFICERS.

President.

STUART BERWICK MILLER.

Vice President and Captain.

GEORGE HEYWOOD PRIEST.

Secretary and Treasurer.

PAUL HOLMES DELANO.

MEMBERS.

PAUL HOLMES DELANO.

MORTIMER YALE FERRIS.

CHARLES ASHLEY HARDY.

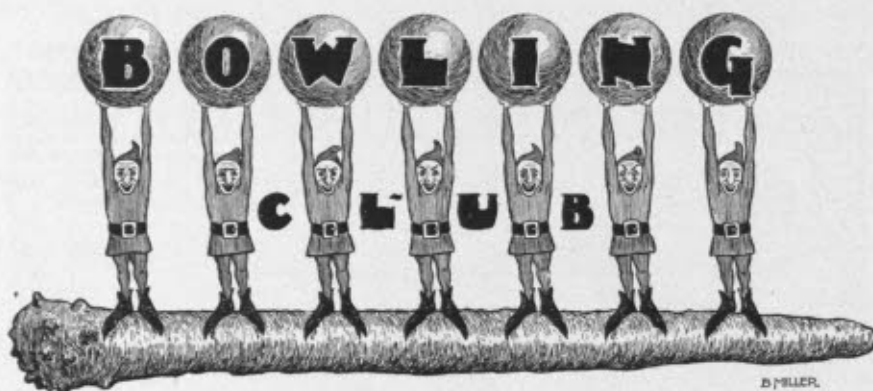
SILAS CLARENCE MERRICK.

STUART BERWICK MILLER.

GEORGE HEYWOOD PRIEST.

MYLES STANDISH SHERRILL.

THEODORE CALVIN TUCK.



OFFICERS.

President, PAUL GERHARD L. HILKEN, '01.

Vice President, HERBERT M. MACMASTER, '00

Secretary, STANLEY C. SEARS, '00.

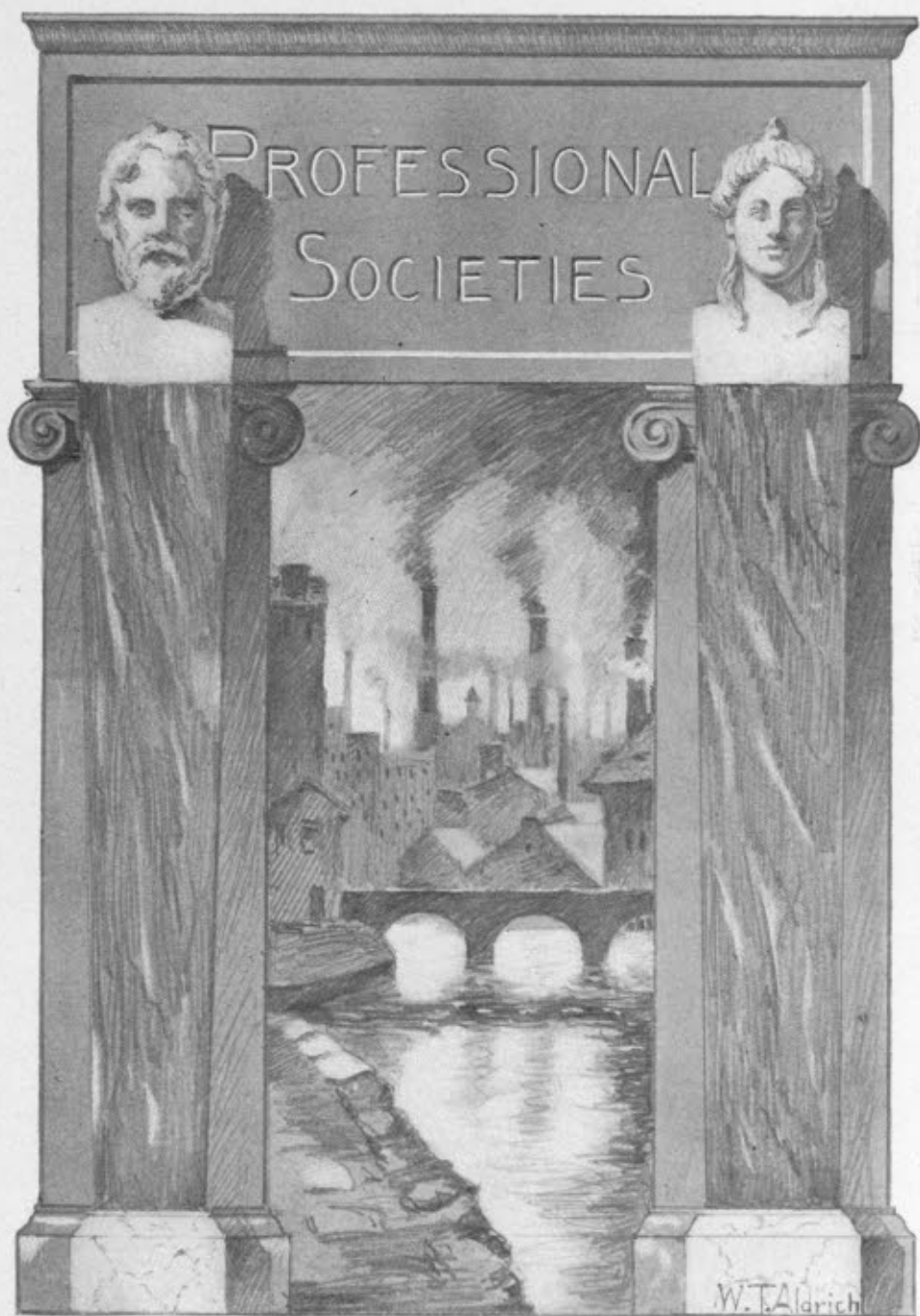
Treasurer, GEORGE O. SCHNELLER, '00.

Manager, WILLIAM T. ALDRICH, '01.

MEMBERS.

WILLIAM T. ALDRICH, '01.
 GEORGE BRIGHT, JR., '02.
 WALTER C. CHAFFEE, '00.
 ALBERT L. CHURCHMAN, '00.
 BURTON S. CLARK, '00.
 JOHN M. EGAN, '02.
 SAMUEL B. ELBERT, '00.
 RUSSELL H. GLOVER, '00.
 PAUL G. L. HILKEN, '01.
 WILLIAM B. HOUGH, '00.

HARRY G. KOCH, '01.
 JAMES B. LAWS, '01.
 LESLIE W. MILLAR, '01.
 HERBERT M. MACMASTER, '00.
 FREDERICK I. MERRICK, '00.
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• SOCIETY •



Working o'er dark Plots, confining
All their thoughts to weird Designing,
In-Tint on Shady work, they're deep
In Plans or Lunches, Books or Sleep.
They do their business on the Square,
Yet Draw the Line at working there.
Their Club, of worth far from conjectural,
Is called, of Course (IV.),

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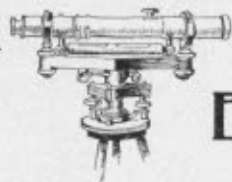
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Always peering at the gearing,
From the engine to the steering;
Listening, hearing; never fearing;
Such the men of

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A club that's well suited
To study so technical,
Deep, and so mooted
As this, is

ELECTRICAL.

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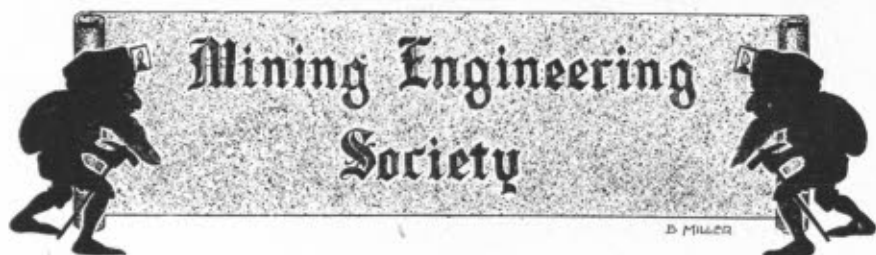
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Here's a Club of grimy diggers,
Skilled in running mills and jiggers;—
Quick to see in earthy places
Precious ores in faintest traces;—
Trained in white-hot furnace-melting,
As in frozen copper smelting.
One Club only bears defining
Such as this, and that is

MINING.

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A Club to which the C's are most essential;
 Authorities on Crafts of every kind,
 Not only those of nature Presidential,
 But Schooners, too, to Chapel use consigned,
 The members show exemplary deportment
 In recitation, drawing-room, or lecture;
 'Tis thus they get the crafty C assortment
 That marks the Club of
 NAVAL ARCHITECTURE.

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A Club which treats of rocks for constant diet;
 Yet, when it finds a gem 'twould like to own,
 Must hustle hard to raise the rocks to buy it,
 And break itself, as oft it breaks the stone.
 A Club of member, quiet and methodical;
 A Club with name well-chosen,

GEOLOGICAL.

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L. MYRON FULLER.

MEMBER.

L. MYRON CUPID FULLER.

CUPID MYRON L. FULLER.

L. CUPID MYRON FULLER.



A grewsome crew—select though few—
 Of literary bent,
 Who write of worms and fatal germs,
 And useless names invent:
 Their pen a bone; the ink they own,
 In ghastly kind of ewer
 In a turtle's back, is sarcolac-
 Tic acid, deep and pure:
 Diphtheria bacteria
 They train with wicked glee,
 And oft dissect and then inspect
 The biologic flea.
 They leave good homes for diatoms,
 And then, with phrase infernal,
 Discuss the grub and praise the Club
 Of the SANITARY JOURNAL.

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The thing that most insures success
In every skilled endeavor,
Is a proper blending, more or less,
Of Arts and Crafts together.
Technology has got its Crafts
In Presidential parts;
And from this Club, in mental drafts,
It also gets the

ARTS.

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SET 'EM UP FOR TOMPSON.

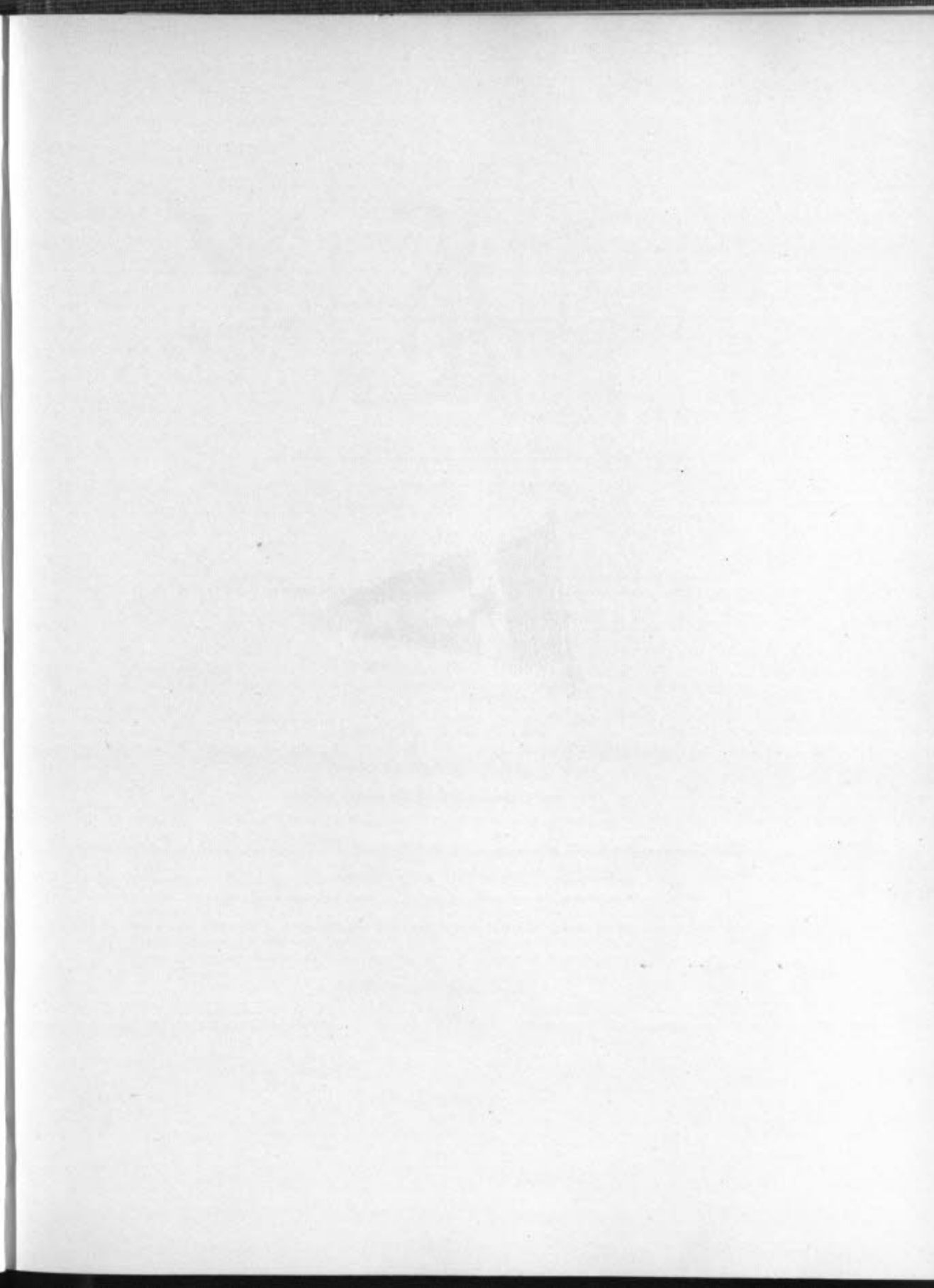
A BALLAD OF THE DUSTPAN.

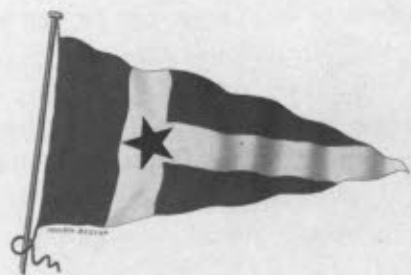
A JOLLY good chap, who is always on tap
In the 'Stute from the break of the dawn
To the end of the night, and is always in sight,
Is our amiable Janitor John.

'Tis surely a lark, so the fellows remark,
To meet him first thing in the morn:
for it gives one a brace just to look on his face,—
So jolly is Janitor John.

His name has position in Teeh's old tradition:
But then, any man who's kept on
for over a quarter a century oughter
Be famous—like Janitor John.

So long as he's, here the future is clear;
And long may it be ere he's gone;—
for long it would be, e'er again we would see
Another like Janitor John.







A club with sails as spreading as *The Teck*,—
 Yet ne'er has come so near, as that, to wreck :
 A club of those who love o'er seas to caper,—
 Enjoying most those voyages made on paper :
 A club whose men in Course XIII. are taught :
 A club which hopes, in time, to own a

YACHT.

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A Prep-school Club may often be
 A very good idea;
 And this appears, at M. I. T.,
 Particularly clear.
 The well-known school sends every year
 Her most select band over;
 And these find friends already here
 Within the Club

ANDOVER.

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W.T. Aldrich.

THE CHICAGO CLUB

The greatest city—so by some, 'tis said,—
That o'er the limitations of the past,
In envied pride e'er reared its stately head
Unmoved by competition's ruthless blast,
Sent forth her sons to M. I. T., to found
The greatest club on Massachusetts ground.
And every year
New men appear

To help sustain
CHICAGO'S fame.

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WILLIAM WATERMAN, JR.
FRED BLAISDELL WILDER.



THE SOUTHERN CLUB

From land of orchids and bananas springing,
To lands of sleety winds their promise bringing:
Chameleons, 'gators, copperheads forsaking,
In toil of Wizards and of Grinds partaking;
In independent mode themselves to govern,
These members formed a Club, of title SOUTHERN.

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HARRY PEAKE McDONALD.

FREDERICK W. SMITH.

WILLIAM GEORGE SUCRO.



A Club of funny beings, sage and mystic,
 With parlance economic and statistic;
 Who annually blossom out ecstatic,
 And robe the Institute in fame dramatic:
 Retiring then within their quiet locker,
 Their laurels place before the shrine of

WALKER.

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Die Gesellschaft.

As Heaven was neared by Babel's peak,
Work stopped just ere completion.
In different tongues all men did speak,
From German down to Grecian.

The Græc occurred that there should be
The poetry and philosophy;
So German, coming on the list,
Allowed GESELLSCHAFT to exist.

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In many ways exclusive and select,
That true nobility it might reflect,
This Club comprises members of true worth,
Who offset scanty numbers by high birth,
And, hailing from the Capital, each one
Falls well beneath the title

WASHINGTON.

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A gentle circle, yet with such high jinks
As no man—e'en the Secretary—thinks;
In whose debates, though argued to the roof,
"Because" is reason, and "Don't care" disproof;
With ne'er a sight, nor even thought of man;—
A Club of sweets unmixed, the
CLEOFAN.

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A band with *Tech* and *TECHNIQUE* in accord,
 (Devoted to the interest(s) of the Board);
 Employing (K)nights in making quiet tears
 In zig-zag course through many local squares;
 Yet shun the chapel, though with Bishops strive
 To save the Queen and keep the King alive;
 Like other folks, depending for their gain
 On all the different checks they can obtain;
 Who register defeat with each success;
 In short, a club of Wizards, namely,

CHess.

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The Chauncey Ball Club

When Tech. first opened doors, on Summer Street,
And spread to Chauncey Place, a Prep. school there
Gave welcome, as appropriate and meet,
And promised future students rich and rare.
Then shortly Tech removed to Boylston Street;
The Prep. school followed—came to Copley Square;
And Tech., to make the comradeship complete,
Returned the former welcome then and there.
The Prep. school moved again, and nearer yet;
Across the street it chose a building tall;
And, as the final tie, her men in Tech.
Have organized the club of

CHAUNCEY HALL.

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"Some of us will smart for it."

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"Proving absurd all written hitherto."

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" Within that awful volume lies
The mystery of mysteries."

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THE ABSENT-MINDED SENIOR.

SOLILOQUY.

She passed me on the street. Surprised,
I stopped,—I swear I recognized
The—what? The eyes? I know not; yet
'Twas something I could not forget.

We'd swiftly passed; 'twas but a glance;
Oh, could I but repeat the chance!
'Twas something, as our glances set,
I can't define—nor yet forget.

The form—the face;—familiar, more
Than that—I swear we've met before.
Within my memory's tangled net,
There lies the thing I can't forget

Does life in cycles o'er and o'er
Continue on? If so, before,
In some preceding life, we met
And made the bond I can't forget.

The bond? 'Twas love,—no less could hold
Through ages numberless, untold;
Some lasting lover's vow or debt,—
I can't recall, and can't forget.

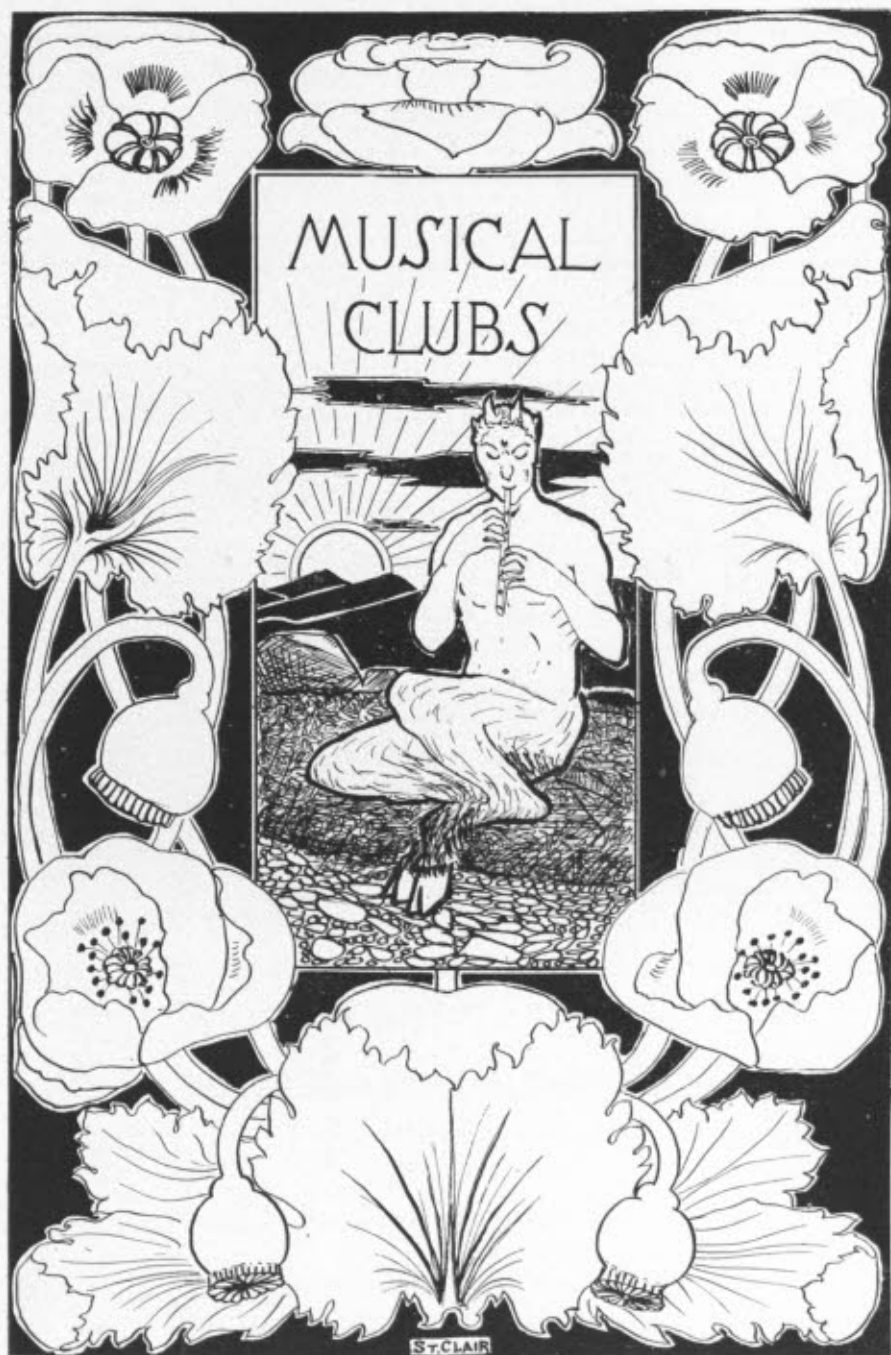
Perchance, in that existence she
And I were wedded happily;
And she, perchance, this fair brunette,
Those former days cannot forget.

That look she gave—inquiring, shy—
Suggested thought of years gone by:—
As if she hardly knew me; yet
As if she, too, could not forget.

Who knows but that, in seeing me,
She had the same vague memory?
But wait!—I know who 'twas—I'll bet—

∴ ∴ ∴ ∴

My Oak Grove waitress!—who'd forget!



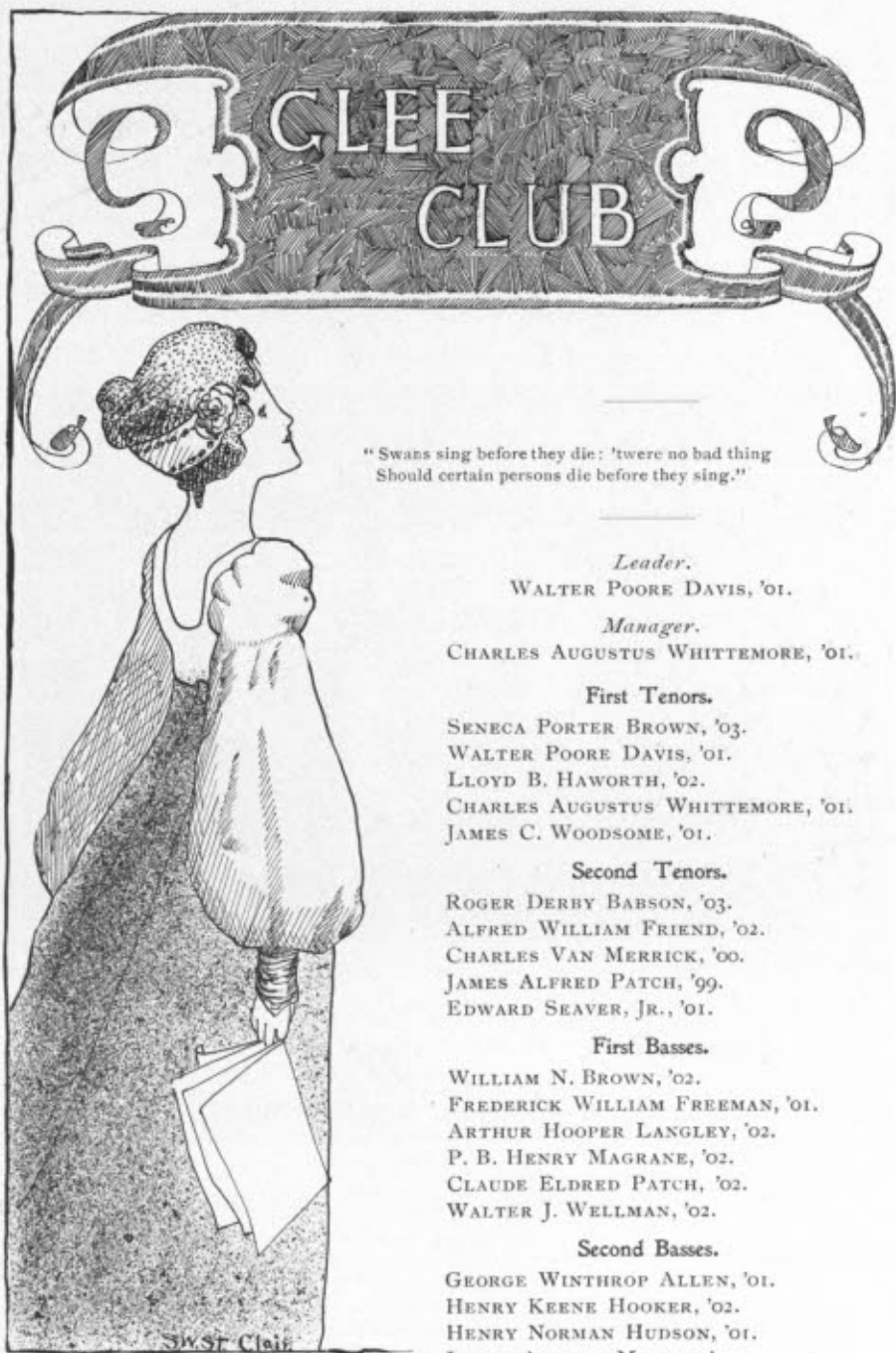
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"Swans sing before they die: 'twere no bad thing
Should certain persons die before they sing."

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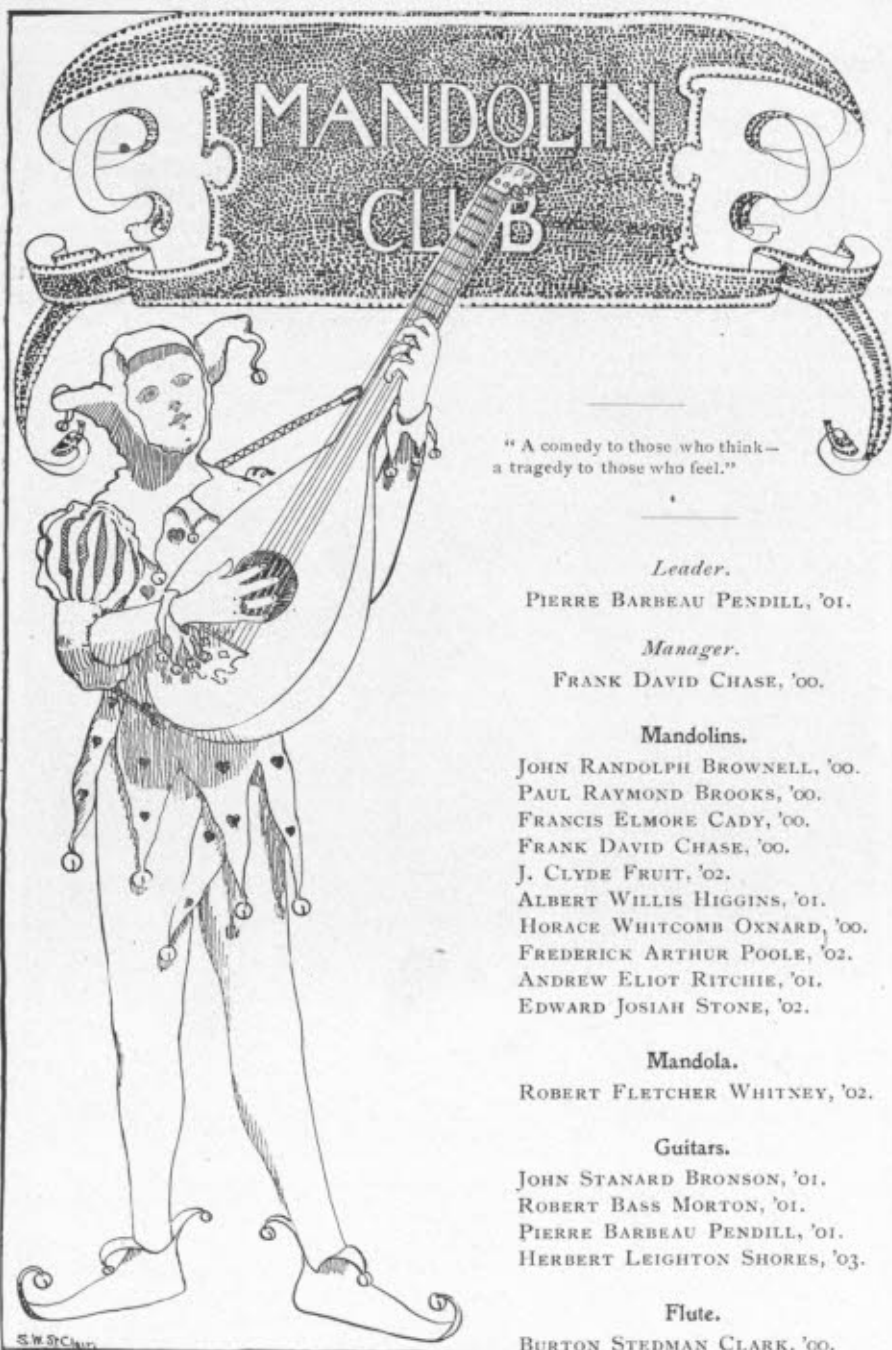
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"Sentimentally, I am disposed to harmony,
but organically I am incapable of a tune."

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Schedule of Concerts for 1899-1900.

Nov. 17, 1899, West Newton.
Dec. 14, 1899, Stoneham.
Dec. 20, 1899, Home Concert.
Dec. 26, 1899, Lowell.
Dec. 28, 1899, Gloucester.
Feb. 12, 1900, Wellesley.
Feb. 16, 1900, Reading.
Feb. 20, 1900, Winchester Calumet Club.
Feb. 22, 1900, Everett Y. M. C. A.
Mar. 1, 1900, Cambridge Y. M. C. A.
Mar. 10, 1900, Cambridge Colonial Club.
Mar. 16, 1900, Dorchester Athena Club.
Mar. 22, 1900, Boston Y. M. C. A.
April 24, 1900, Spring Concert.

S.W.S.C.

THE EXHIBIT OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY AT THE PARIS EXPOSITION.



THE Institute will be well represented at the Paris Exposition by an exhibit of the work done by her students.

The exhibit as a whole will consist of drawings from the Mechanical Engineering, Architectural, Naval Architectural and Civil Engineering Departments. Charts showing the distribution of students and graduates, plans and photographs of the buildings and surroundings, circulars and statements of the Courses, photographs of the various departments, copies of publications of students and graduates, copies of entrance examination papers, logs of tests from the Mechanical Engineering Laboratory, copies of the President's report of 1898-99, and specimens from the Laboratory of Applied Mechanics, will also be open to the inspection of the visitors to the Institute's Department.

A list of all the names of those whose drawings have been sent could not be procured, and many of the drawings were those of graduates. The following list contains the names of some of the students, now at the Institute, whose work was regarded as representative of the various departments:—

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F. R. WALKER.	J. STONE, JR.	H. F. HOIT.
J. F. CLAPP.	L. M. LOWELL.	H. H. HEWITT.
W. T. ALDRICH.	W. C. APPLETON.	LOUIS HENRICH.
J. V. BECKMAN.	H. W. DAVIS.	A. H. COX.
H. HIGHT.		

Mechanical Engineering Department.

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E. F. CHURCH.	E. B. ALLEN.	C. F. JOHNSON.
J. R. PUTNAM.	R. L. WILLIAMS.	P. G. L. HILKEN.
M. W. HOGLE.	N. L. SKENE.	E. B. BELCHER.
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R. R. GOODRICH.	C. J. BACON.	F. G. LAW.
G. F. WILLARD.	A. T. HYDE.	H. O. KEAY.
C. H. HAPGOOD.	R. M. HOPKINS.	A. D. SCHMIDT.
H. E. OSGOOD.	T. D. PERRY.	L. S. SMITH.

Civil Engineering Department.

W. C. PICKERSGILL.	G. L. SCHLEMM.	L. P. WOOD.
W. M. ARCHIBALD.	P. H. DELANO.	D. HINMAN.
H. M. HARPS.	C. L. RICHARDSON.	A. A. REIMER.
K. SEAYER.	H. R. STEARNS.	



WHAT THE PROFESSORS THINK OF TECHNIQUE.

PRESIDENT CRAFTS: "The book has always been very good. I have no criticisms to make."

PROFESSOR NILES: "I have always enjoyed the book, although I have sometimes thought that the grinds were too sharp."

PROFESSOR LANZA: "The book is very good for the students; sort of a review of the year, which I have never seen in any other college annual."

PROFESSOR DEWEY: "I think the book should always be kept of a standard size."

PROFESSOR TYLER: "The grinds are sometimes a little too blunt." (We can sharpen them up.)

PROFESSOR BATES: "I do not mind the grinds on myself, but I have thought occasionally that the editors have overstepped themselves."

PROFESSOR POPE: "I do not see how the editors can afford the time that it takes to get the book out. The 'Faculty Foot-Ball Game' was one of the best grinds TECHNIQUE ever published." (Wait till you read this number.)

PROFESSOR HOMER: "I have noticed drawings which might be improved upon."

PROFESSOR CURRIER: "I am deeply interested in the book, and have always bought one since I have been connected with the Institute." (An example to follow.)

PROFESSOR CLIFFORD: "Considering the grinds, I do object to strict personalities, and these are the only grounds upon which, as far as I know, the Faculty has taken any serious consideration. But the grinds as a whole are an essential part of the book, and I would not give two cents for TECHNIQUE if it was not for the pleasure of looking them over."

PROFESSOR DIPPOLD: "I like it, and have nothing to say against it. They have treated me pretty fair so far."

PROFESSOR FAUNCE: "As a whole the book is all right. I can appreciate grinds that are jokes, but in some previous books there have been things which have been a disgrace to the class which got them out. As for the grinds in last year's book, I didn't read them, so have no opinion to express."

PROFESSOR NOYES: "I should say it was a very necessary and desirable publication. I know I have always been glad to see it each year."

PROFESSOR MERRILL: "O, I think it's lots of fun; don't you? A very interesting book, but I should think it would be lots of trouble for those who get it out." (The Professor hits it about right.)

PROFESSOR LAWRENCE: "A very successful publication; drawings are remarkably good, although there have been some exceptions."

PROFESSOR BAILEY: "I'm not enough up in *TECHNIQUE* 'literature' to express an opinion."
(Ignorance is bliss.)

PROFESSOR GILL: "Typographical work is excellent. The size of the book is a little objectionable for the place I keep it in; but as long as this size has been adopted, I think it best to keep it standard." (If the Professor will give us the size of his space, we will alter the book to suit.)

PROFESSOR BARDWELL: "The book is fairly good (as he looks over the 1900 *TECHNIQUE*). I don't think this one comes up to last year's book."

PROFESSOR MILLER: "No; I have no criticisms to offer. I always read and enjoy it."

PROFESSOR SKINNER: "A very pretty book, but I should think it would take a good deal of time and expense to get it up."

PROFESSOR GOODWIN: "*One of the best college annuals published. Say that I complimented you fully.*"
(Editors, shake.)

PROFESSOR VOGEL: A first-rate book; some of the grinds are rather severe, *but I imagine they are deserved in a good many cases.* A student reporting a joke cracked by a Professor oftentimes alters it so much that the Professor never recognizes it."
(We have to, to bring out the point.)

PROFESSOR HOUGH: "As regards the grinds, I've never been included, so have no reason for expressing an opinion; rather a dangerous thing to say, perhaps." (Your time will come.)

PROFESSOR PUFFER: "There is a great deal of similarity from year to year."

PROFESSOR WOODS: "I enjoy reading the book, and always have one for reference. There seems to be a tendency for the grinds to concentrate their energy on one man, which gets to be rather monotonous, and oftentimes arouses the sympathy of others."

PROFESSOR CROSBY: "I often wonder where the students find time to get out such a creditable book."

PROFESSOR ROBBINS: "I'm always glad to get hold of the book when it comes out, and see what's in it."

PROFESSOR BARTON: "I always read it, and have no suggestions to make."

PROFESSOR WOODBRIDGE: "It serves a good purpose in its way, but don't carry your fun too far."

PROFESSOR LODGE: "The grinds are occasionally a little too hard. If a man makes an Irish bull, well and good; but if he is bald-headed, or has a lame knee, the grinds are apt to become altogether too personal." (The reference to a brother Professor is a little too steep.)



YOUNG MEN'S CHRISTIAN ASSOCIATION.

A mighty concourse gathered from the land
The evils of temptation to withstand;
Yet, inconsistent as it may appear,
Hold influences spirituous most dear;
With open arms to Freshmen, lest they stray,—
They're called the'

M. I. T. Y. M. C. A.

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Upon a painted ocean."

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"What rage for fame attends both great and small!
Rather be cursed than mentioned not at all."

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"One writer, for instance, excels at a plan or a title page another works away the body of the book and a third is a dab at an index."

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"There is what I call the American idea."

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"Say, what's *Co-operative*, Bill?"
 One Freshman asked another.
 "*Co-operative*," answered Will,
 "Is where they work each other."

This quite ingenuous speech applies
 To our association;
 For thus the fruits we realize
 Of our Co-OPERATION.

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Article 13, Section 13, Clause 13.

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"Shut up in measureless content."

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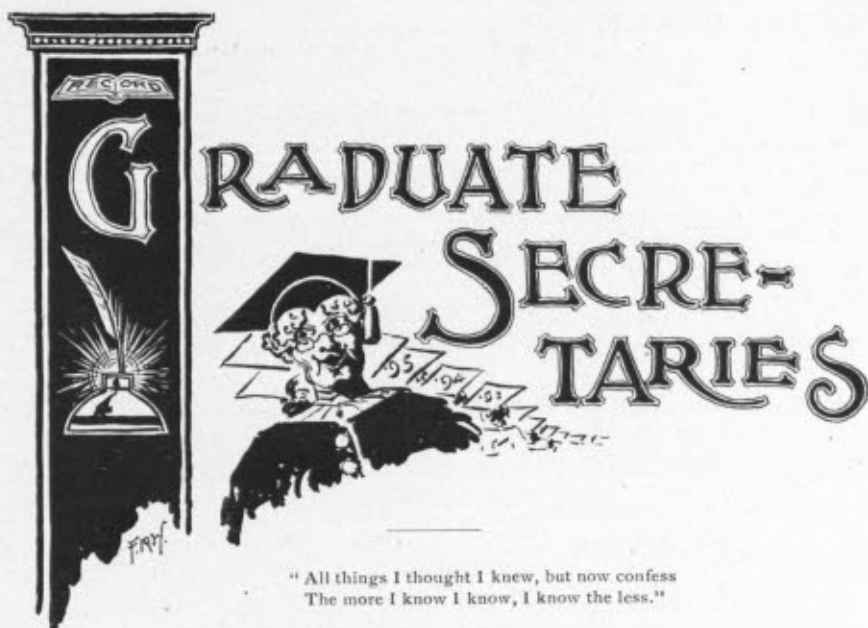
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THE EUROPEAN TOUR OF THE SUMMER SCHOOL OF ARCHITECTURE.



THE tour arranged and personally conducted by Professor Homer, of the Department of Architecture, for the Summer School work of 1899 was a most attractive one; and although few of our students were able to avail themselves of the opportunities it offered, the expedition was successfully carried out; and those of us who went enjoyed a summer of pleasure and profit rarely equaled. Our small party sailed from New York in the first week of June, and after a delightful voyage across the Atlantic and through Mediterranean waters arrived in Genoa, where we found Professor Homer awaiting us, he having sailed two weeks earlier. The plan of action was soon put into execution, and, accordingly, after a brief stay in Genoa our party went by rail across the northern part of Italy, moving eastward through Pavia, Milan, Brescia, Verona and Vicenza, and ending our journey in Venice. We sojourned for several days in this charming city, where, aside from the study of its architectural treasures, we had many delightful experiences; making excursions to the adjacent islands, and indulging in every form of Venetian recreation, from moonlight concerts on the "Piazza" to surf bathing in the Adriatic. Leaving Venice we returned to Genoa, and there prepared for our cycling tour through France.

The afternoon of July 1st saw us making our start—with wheels weighed down by cameras, guidebooks, drawing materials and indispensable clothing—and slowly threading our way out through the narrow and dirty streets of the outskirts of Genoa toward the coast road which we were to follow in our westward journey. Riding during the greater part of the days, and passing through the many little towns that dot the shores of the Mediterranean along the famous Riviera, we found this portion of the route most interesting; the lack of great architectural features was more than offset by the indescribable grandeur of the scenery. This route led us along the coast, across the French frontier, and through Monaco, with its world-famous

Monté Carlo, where even the quiet of the summer season did not prevent us from catching a glimmer of the gilded life of the place. We did not "break the bank," nor was our financial condition seriously injured; and we were permitted to continue on our way. A few days later we reached Toulon, having passed through Cannes and Nice and the many charming winter resorts of this popular region.

From Toulon to Marseilles was our next move; and from here, after a brief stay in this delightful city, which in its modernized aspect has become an echo of the great French capital, we wheeled away toward the north, bidding farewell to the shores of the Mediterranean. Our journey into the picturesque regions of Provence and the southern Rhone valley enabled us to visit Aix, Arles, Nimes, Avignon and Orange; and, as we moved slowly northward, finding in our path many smaller places which are to tourists practically unknown, though they are exceedingly rich in architectural remains. Provence is peculiarly interesting on this account, and its old decaying towns, full of Roman monuments and the many examples of the Romanesque work of this section, proved most fascinating to us.

The dust and heat of the Rhone valley, and the stiff north wind that is an unvarying feature of this region in summer, made wheeling somewhat distressing. Among the many discomforts from which we suffered was a most abnormal thirst, that seemed quite insatiable in spite of all efforts to quench it. We appreciated most fully, therefore, the change we experienced upon leaving the river and striking off to the westward across the mountains. The fresh, clear air and the glorious scenery combined to make life a delight, and the long walks, made toilsome by pushing wheels up steep grades, brought their reward in "coasts," often many miles in length. Sometimes we would continue riding long after the sun had set, and the moonlight shone brightly upon the hard, white, mountain road, lighting our path as we pushed on to our nights' resting-place. Such delightful experiences filled the few days of mountain travel, until they were ended for a time by our reaching Le Puy.

In this remarkably picturesque city with its church-crowned rocks we rested for a time, and then again resumed our journey toward the north, traversing the Auvergne region and following the River Allier up to its union with the Loire at Nevers. From this point a side trip was made to Bourges, famous for its great cathedral and recollections of the days of Jacques Couer, whose beautiful palace is still an object of great interest.

Returning to Nevers, we resumed our northward movement by leaving the Loire and taking up the course of the River Yonne as it flows to meet the Seine. After interesting visits to Auxerre, Sens, Troyes and other towns, in all of which we found abundant material for architectural study,

we reached Fontainebleau one hot August afternoon, and rested amid the beauties of the great park that surrounds the chateau. After inspecting the vast pile of buildings that compose this old royal residence, and after a good night's rest at a neighboring hotel, we took a morning train for Paris, where we arrived, after a short ride, on August 7th. Here our party was disbanded and the tour of the Summer School was at an end. Architecturally considered, the route we followed was most interesting and instructive. In Italy we traced the beginnings of the Renaissance in the cities of Lombardy; while in the eastern cities we saw the works of the later architects, such as Palladio, Sansovino and others. It is hardly too much to say that in Venice we saw the whole history of the architectural activities of mediæval and Renaissance times written on the walls of this wonderful city.

Our long bicycle tour led us through a country rich in architecture. In the Rhone valley an abundance of Roman work is to be found; where the great arenas of Frejus, Arles and Nimes still stand in a fair state of preservation, while the theaters of Arles and Orange are full of interest even in their ruined condition. Then the fine early Romanesque work of Provence leads the student gradually up to the more developed type as found in the cities of Auvergne; and so, as we journeyed northward, we were prepared for the fully-developed work of the Gothic period as we found it in the cathedrals of Bourges, Troyes and Sens. Thus the wonderful evolution could be traced; and in the little Roman Temple of Diana at Nimes we recognized the primary constructive idea that grew to fullest expression in the great cathedrals of the north.

Thanks to the careful management of Professor Homer we were able to complete our tour entirely as planned, without the difficulties usually attendant upon tourists. The conduct of the expedition allowed for a great variety of experience; and the use of wheels enabled us to visit many places far from the beaten track of the tourist, and to find in them a life that in its quaintness and lack of spirit seemed to belong to a bygone century.

The many little experiences in strange out-of-the-way places that we met with, as our party jogged along its route, form a delightful record to look back upon; while the trials and annoyances, such as wheelmen only know, give the necessary accent to the picture. So, doubtless, we will often think with pleasure of those days of good-fellowship as our band of wanderers, with Professor Homer at its head, floated lazily in a gondola on the placid waters of a Venetian canal, or wheeled on, under the glare of the summer sun, along the dusty highways of France.

THE SUMMER SCHOOL OF CIVIL ENGINEERING.



ARMED and equipped with soft felt hats, rubber boots and provisions, our party started on the fifth of June for the summer course in Civil Engineering. We numbered thirty-two, including the wife of one of the longer professors. The *St. Croix*, the steamer on which we left Boston, behaved with great propriety until she got on a maximum load at Portland, of that beverage, the sale of which Maine laws forbid, consequently becoming slightly eccentric and unsteady, permitting only a few of the bravest to venture on deck. Shortly after having arrived at Eastport we boarded a train for Cherryfield on the Washington County Railroad, which, evidently, was constructed upon the principle of balancing cut and fill regardless of grade.

All the people of Cherryfield seemed to be at the station to meet us, and we quickly introduced ourselves with the Technology cheer. The party was then divided, the Y. M. C. A. men going to a boarding house and the sports to the hotel.

The work began on the morning after our arrival with the erection of signals. Our triangulation system was based on a United States coast and geodetic survey line, accurately located by means of a copper bolt and a church spire. This line, three fourths of a mile in length, measured by our professor in command and a few of the would-be engineers, was used to check our base. The plane tables were then brought into use, and about a square mile of hill and stream was accurately plotted by five-foot contours.

On the River Narragiragus, dammed in five places, we took the soundings and gauged, with floats and meters of various forms, the flow of the stream. Lines of levels were then run, and from all the results the available horse-power of the stream was computed, our computation tallying in a fair degree with the horse-power actually used by the mills at that time.

An outpost was maintained at Milbridge, where the tide gauge was

located, and where the barometer and thermometer were read night and morning. A plane table sheet, based on an accurate coast survey line, was used for plotting the river soundings which incidentally established beyond question the "Saw-dust Epoch of the upper Quarternary."

It was, however, not all work. Sundays were devoted to fishing or to church-going; the evenings were given up to concerts at the hotel and to dances tendered us by the feminine portion of the population. At the latter functions the men of Cherryfield were conspicuous by their absence. In fact these were Junior Promenades adorned by the highest types of bucolic feminine beauty. After an excursion to Tunk Mountain, in which the ladies joined, and an examination and redetermination of the Epping Base by photographs and pacing, our work at Cherryfield was at an end. Our flag was hauled down, and amid tears, farewells and cheers we left for St. John, with the consolation that we had "captured" Cherryfield and learned something of practical engineering.

Taking a few photographs of the bridges in St. John, and with scarcely time to "see the town," we set out by train early in the morning for the JOGGINS Coal Mine, under the leadership of a representative of the Geological department. After various fossil and crystal-hunting trips we made an examination of the WAVERLY gold mines. A short time was spent in Halifax, enabling us to see the garrison and parks. On the "Glorious Fourth" Halifax was left behind us, and we returned to St. John by the way of WOLFVILLE, the "Land of Evangeline," and Digby Gut.

At St. John the St. Croix was waiting for us, which brought us into Boston harbor on the sixth of July. Landing at the dock during a severe thunderstorm, with handshaking, good wishes and a Technology cheer we broke up the Summer School of 1899.





"The meat was served, the bowls were crowned;
Catches were sung, and healths went round.

Class of 1900.

Applied Mechanics.

Preface by the President CLIFFORD MILTON LEONARD.
Instructor in "Applied" CHARLES VAN MERRICK.
Stresses and Strains due to Breaking Load ROBERT HODGEN CLARY.

$$s + \frac{e}{l} = \text{The Past.}$$

Elongation due to Repeated Stresses and Strains FRANK DAVID CHASE.

$$\frac{e}{4} = \text{A Five Year Course.}$$

Song PERCY ROLFE ZIEGLER.
A Few Moments of Inertia STANLEY COLLAMORE SEARS.

$$\frac{I}{12} b h^3 + \frac{I}{3} b h^3 + \frac{I}{4} \pi r^4 = \text{The Present.}$$

Short Struts, or GEORGE HOUK MEAD.
$$l + \frac{f}{c} \times \frac{l^2}{\rho^2}$$

Music ORCHESTRA.
Our Co-efficient of Expansion and our Modulus of Elasticity, MARCY LEAVENWORTH SPERRY.

$$.001900 + \frac{s}{e} = \text{The Future.}$$

Hotel Thorndike, December 15, 1899.



"A feast prepared with riotous expense,
Much cost, more care and most magnificence."

Class of 1901.

Toastmaster.

RALPH PLUMB.

The Class VALDEMAR FRANK HOLMES.

"Life is to be fortified by many friendships."

MUSIC.

Love HERBERT HARLEY KENNEDY.

"Love is an itch that can't be scratched."

MUSIC.

Athletics RAY MURRAY.

"The oysters on his brawny arms
Were strong as Sousa's Band."

MUSIC.

TECHNIQUE JOHN T. SCULLY, JR.

"An incurable itch for scribbling takes possession of many, and grows inveterate
in their insane breasts."

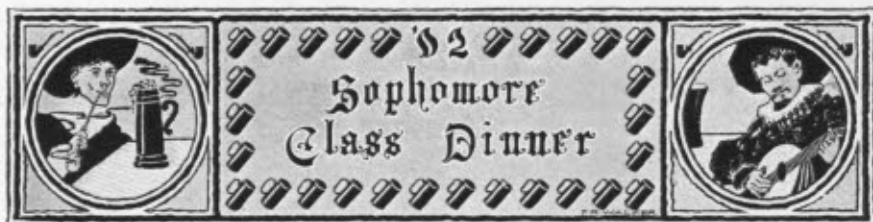
MUSIC.

In 1920 WILLIAM TRUMAN ALDRICH.

"A warning for the future, so that man may profit by his errors, and derive experience from his folly."

MUSIC.

The Thorndike, March 15, 1900.



"Dire was the clang of plates, of knife and fork,
That merc'less fell like tomahawks to work."

Address HAROLD OTIS BOSWORTH.

Music: Banjo and Guitar { DONALD MINOR BELCHER.
KENNETH LOCKETT.
ARTHUR HAROLD SAWYER.
ROBERT LOUIS KRUSE, '03.

"Novel lays attack our ravished ears."—*Pope*.

TECHNIQUE I. RAYNE ADAMS.

"Each wit may praise it for his own dear sake,
And hint he wrote it if the thing should take."—*Addison*.

Class Anecdotes ALFRED WILLIAM FRIEND.

"A story in which nature humor reigns
Is always useful, always entertains."—*Cooper*.

Mandolin Selection FREDERICK ARTHUR POOLE.

"Untwisting all the chains that tie
The hidden soul of harmony."—*Milton's L' Allegro*.

Athletics GEORGE TILLEY SEABURY.

"Here only merit pay receives."—*Pope*.

Sparkling Generalities PAUL ERNEST CHALIFOUX.

"His sparkling sallies bubbled up as from aerated fountains."—*Carlyle*.

Bass Solo HENRY KEENE HOOKER.

"He like a copious river poured his song."—*Thomson*.



FRESHMAN DINNER



"Milk for babes."

Toastmaster.

FRANCIS WOODWARD DAVIS.

President's Address RICHARD MANNING FIELD.

Athletics GEORGE BABCOCK WOOD.

"Our ambitions are higher than our successes."

A Laugh at the Profs. GEORGE BEACH SEYMS.

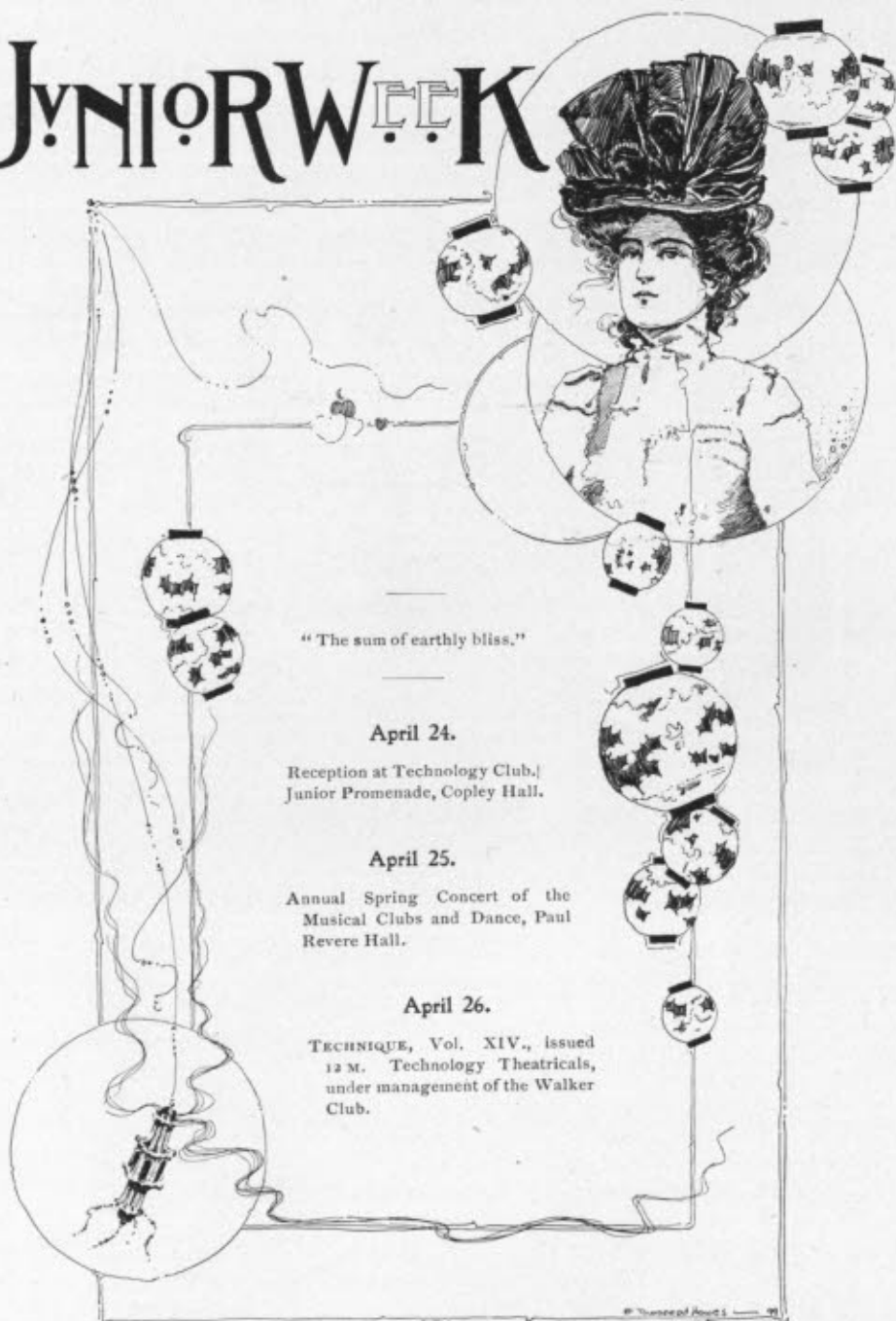
"Lend me ear, and I will make ridiculous the pomp of emperors."

Freshies' Future in Tech MORTIMER YALE FERRIS.

"Dream after dream ensues,
And still they dream that they shall still succeed;
And still are disappointed."

To '03 CHARLES JEWELL MCINTOSH.

JUNIOR WEEK



"The sum of earthly bliss."

April 24.

Reception at Technology Club,
Junior Promenade, Copley Hall.

April 25.

Annual Spring Concert of the
Musical Clubs and Dance, Paul
Revere Hall.

April 26.

TECHNIQUE, Vol. XIV., issued
12 M. Technology Theatricals,
under management of the Walker
Club.



JUNIOR PROMENADE..

"With store of ladies whose bright eyes
Rain influence."

Copley Hall, April 24, 1899.

COMMITTEE.

WILLIAM RAWSON COLLIER.

STANLEY GAY HYDE FITCH.

WALTER LOUIS RAPP.

GEORGE OTTO SCHNELLER.

STANLEY COLLAMORE SEARS.

MARCY LEAVENWORTH SPERRY.

MATRONS.

MRS. JAMES N. CRAFTS.

MRS. WILLIAM T. SEDGWICK.

MRS. DAVIS R. DEWEY.

MRS. HENRY WHITMAN.

MRS. HENRY M. WHITNEY.



"The play's the thing."

"THE PRIVATE SECRETARY."

A COMEDY IN THREE ACTS.

Scenes.

ACT I. *Douglas Cattermole's Chambers.*

"FOUND."

ACT II. *Mr. Marshland's Country Seat.*

"FULL CRY."

ACT III. *Mr. Marshland's Country Seat.*

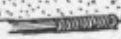
"RUN TO EARTH."

Cast.

Mr. Marshland, M. F. H.	FREDERIC ELWIN EVERETT, 1900.
Harry Marshland (his nephew)	ROBERT FRAZER, JR., 1900.
Mr. Cattermole	JOHN TIMOTHY SCULLY, JR., 1901.
Douglas Cattermole (his nephew)	HARRY LEONARD MORSE, 1899.
Rev. Robert Spaulding	ALLAN WINTER ROWE, 1901.
Mr. Sydney Gibson (tailor of Bond Street) .	EDWARD HATTON DAVIS, 1901.
Edith Marshland (daughter of Mr. Marshland),	PAUL GERHARD LUDIGER HILKEN, 1900.
Eva Webster (her friend and companion) .	GEORGE H. MEADE, 1900.
Mrs. Stead (Douglas's landlady)	HERBERT HOLMES HOWE, 1900.
Miss Ashford	NEWITT J. NEALL, 1900.
John (a servant)	ARTHUR J. EVELAND, 1901.
Knox (a writ-server)	WILLARD W. DOW, 1901.

Graduation Week.

'99



Class of '99.

FRIDAY, MAY 31.

Reception extended to the Graduating Class by the Technology Alumni Association. Exchange Club, 7 P. M.

SATURDAY, JUNE 1.

Concert tendered to the Graduating Class by the Technology Glee, Banjo and Mandolin Clubs. Huntington Hall, 8 P. M.

SUNDAY, JUNE 2.

Baccalaureate Sermon, preached by Rev. Dr. Donald, at Trinity Church, 3 P. M. Text, Psalm cxix. 47.

WEDNESDAY, JUNE 5.

Class-day Exercises, Huntington Hall, 2 P. M.
Class-day Spread, Architectural Building, 4 P. M.

THURSDAY, JUNE 6.

Last undergraduate meeting of the Class of '99. Room 11, Rogers Building, 10 A. M.
Graduating Exercises. Huntington Hall, 2.30 P. M.
Reception by President and Mrs. Crafts. General Library, Rogers Building.

W. H. H. Appleton '01





"The lamps shone o'er fair women and brave men,"

Huntington Hall, Wednesday, June 5, 1899.

CLASS DAY OFFICERS.

First Marshal.

KENNETH MALLON BLAKE.

Second Marshal.

EDWARD HOSMER HAMMOND.

Third Marshal.

WILLIAM STARK NEWELL.

<i>President of '99</i>	.	ARTHUR LITTLE HAMILTON.
<i>Historian</i>	.	LANE JOHNSON.
<i>Statistician</i>	.	WILLIAM MALCOLM CORSE.
<i>Prophet</i>	.	WALTER OWEN ADAMS.
<i>Orator</i>	.	HARRY LEONARD MORSE.

CLASS DAY COMMITTEE.

FRANCIS MINOT BLAKE.	BENJAMIN EAMES MORSE.
GUY PRENTISS BURCH.	STANLEY MOTCH.
WILLIAM BURWELL FLYNN.	CHARLES BARNARD PAGE.
FRANK FULLER FOWLE.	MILES STANDISH RICHMOND.
BENJAMIN PRESCOTT HAZELTINE, JR.	HAVEN SAWYER.
ALEXANDER RIEMAN HALLIDAY.	MILES STANDISH SHERRILL.
WILLIAM ABBOT KINSMAN.	GERALD BASIL STREET.

ETHEREDGE WALKER.

CLASS DAY EXERCISES.

<i>Address by the Class President</i>	.	ARTHUR LITTLE HAMILTON.
<i>Address by the First Marshal</i>	.	KENNETH MALLON BLAKE.
<i>History</i>	.	LANE JOHNSON.
<i>Statistics</i>	.	WILLIAM MALCOLM CORSE.
<i>Prophecy</i>	.	WALTER OWEN ADAMS.
<i>Oration</i>	.	HARRY LEONARD MORSE.



"It ought to be solemnized with pomp and parade, with shows, games, sports, guns, bells, bonfires and illuminations."

Huntington Hall, Thursday, June 6, 1899.

Address PRESIDENT JAMES M. CRAFTS.

Reading of Abstracts of Theses.

<i>Plan for Separation of Grades at Arlington, Mass.</i>	J. B. FERGUSON and C. W. BROWN.
<i>Tests on at 12-Wheel Compound Freight Locomotive on the Boston and Albany R. R.</i>	B. S. HINCKLEY and H. A. B. CAMPBELL.
<i>Treatment of a Low-grade Gold-bearing Silver Ore</i>	S. Q. CANNON.
<i>A Design for the American Ambassador at Paris</i>	A. W. MCCREA.
<i>Analysis and Conditioning of White and Colored Silks</i>	H. S. MORK.
<i>Design and Construction of an Apparatus for the Study of the Alternating Current Arc</i>	C. RENSHAW.
<i>On the Influence of Changes of External Temperatures on the Capillary Blood Pressure in the Skin</i>	BERTHA L. BALLANTYNE.
<i>A Study of the Electrical Resistance of Metallic Films</i>	W. O. SAWTELLE.
<i>A Study of the Methods Used in Passing Congressional Appropriation Bills, illustrated by the Legislation of the First Session of the Fifty-fourth Congress, from Dec. 2, 1895, to Jan. 11, 1896</i>	A. A. HOLDEN.
<i>A Study of Lead-Tellurium Alloys</i>	C. B. GILLSON.
<i>A Study of the Sewerage Systems of South Framingham and Natick</i>	P. BURGESS and B. HERMAN.
<i>Progressive Speed Trials of Steam Yacht Kaleda</i>	W. S. NEWELL.



ARLO'S INFERNO.

THE VISION OF ARLO.

Illustrated by D. Despradelle.

HELL.

CANTO I.

ARGUMENT.

Arlo's spirit, wandering around in a musing state looking for a poetic inspiration, meets the soul of Harry Tyler, and is conducted by him to Hades. Here are the spirits of the Technology professors who have already lost salvation. Though their bodies continue in life at the Institute, the souls are already beginning their eternal punishment. On the way Arlo sees Charlie Cross.

While roaming through the atmosphere of dust
And sulphuretted hydrogen combined,
I searched the hall of Rogers, seeking close
Some inspiration dropped from Freshman mind
To start a poem to grace my coming book.
I met a shade whose black, translucent beard
And cloudy ghost-brain spoke high power of mind.
The Secretary—his the soul it proved—
Thus spoke :—

“Hi, Arlo! Got an empty hour?
Come on, and let's escape this beastly smell!
Let's take a drop to regions lower still
Than those wherein the grimy miners dwell.
I've got a date with Getty down in—Well,
Come on; your time most pleasantly 'twill fill.”
“Go to!” said I. “By Jove, I guess I will!”

The spiral stairway soon we left above;
The boiler-room received our shadowy forms.
There at the side an elevator stood;
We climbed within, while Harry pulled the rope.

And then the wheels, like Linus in Descrip,
In measured turn revolved us into H.
Then down and down, in pain-foreboding gloom,
We sank. Then Harry spoke:

"It pains me much

To see my friends in agony below;
But still, *que voulez-vous?* What can I do?
'Tis madness, sure, to even make pretense
Of doing ——"

"Stop," I interrupted here;

"No more until that error be repaired!
How often, Harry, must it be recalled
That from its *to* no verb should e'er be split!"
Repentantly then Harry bowed his head,
But spoke not, for beside our falling car
A queer machine appeared, of awful form—
A spiral stairway moving ever down,
As though a treadmill working in a coil.
Within, a wretched shape was toiling on
To climb the stair. In vain; he never rose.
His face was meek, his eyes exceeding bright;
And as he climbed, his head—bereft of hair—
Moved up and down, confirming secret thoughts.

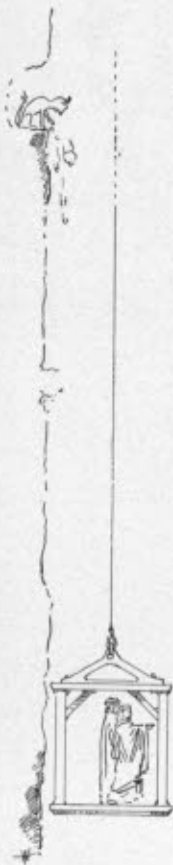
"What man is that? And what the dread machine
That like a cage moves down as he ascends?
What penance, tell; and why the strange device?"
" 'Tis Charlie Cross," the guiding soul explained,
"Condemned to climb, as to his lecture hall,
The spiral stair, yet ne'er to gain the top.
This penance for his Physics Course is made."
I wept, and made a note upon my cuff.

CANTO II.

ARGUMENT.

On the way down they see the punishment of the avaricious and usurious. Riddler is discovered in physical labor and mental torture.

We slackened, as a landing spread before.
Not far was seen a hill exceeding steep,
And up the slope toiled men in effort vain



To roll before them mighty sacks of gold.
 And nearest me in most unspared attempt
 Was one I recognized, not without glee.
 'Twas Riddler, striving hard his coin to raise
 Above the crest, and thus his money keep.
 And as he strove, the bag rent here and there,
 And dollars issued forth in wasting stream.
 I saw the coin, and e'en identified
 A quarter, plugged, which I myself had passed;
 And as it rolled he gave a tortured shriek.
 We sank from sight, yet still the scream pursued.



CANTO III.

ARGUMENT.

They leave the car and cross the river. On the way, the Bursar, who is boiling in the stream, tries to get on board. He tells that his fate was due to his slowness, and is relentlessly pushed back into the water by the Boatman.

Our car we left, at lowest depth arrived,
 And took to boat to cross the boiling wave.
 At middle stream, where moaning bodies rolled,
 And 'mid the quivering steam wild faces glared,
 A wretch in agony our barge invoked,
 And seized the side as if to clamber on.
 "Have pity! Harry! Arlo! See—I writhe!
 Oh take me with you to the farther shore!
 No evil do I fear which waits me there;
 This present agony is Hell extreme!"
 I looked, amazed,—the Bursar 'twas who spoke.
 "Unfortunate!" I cried; "how came you here?"
 "I waited—fatal act!—too long on earth
 When once Beelzebub had made his call.
 Oh, horrid habit! Came too slow, too slow,
 To get a passage on this Stygian boat.
 I tried in haste—endeavor rash!—to swim;
 But failed—the only time—to touch the bank."
 Unmoved, the Boatman thrust the victim back;
 But through the closing waves we heard his cry.



CANTO IV.

ARGUMENT.

They land, and walking on a road of mangled bodies they find the district where Mathematic authors are punished. Harry points out some of those who are especially damned.



Now, landed on the shore, we lingered not,
Nor paused to note the anguish surging strong
From mangled forms whose bodies formed our path;
Though by their speech I recognized the throng
As all Assistants of Technology.

But on we passed, till soon before us spread
A mighty plain, wherein were many tombs
Unroofed, so at the top there issued fire;
And in each narrow cell a being stood
Incased in flame and pain-inflicting fumes.
“Here,” said my guide, “in agony acute,
Are kept all those to authorship inclined,
Perpetuating mathematic thought.”

I saw among the strange, distorted forms
Such men as Wells, as Bailey and as Woods.
The two last named, in partnership of grief
Within one cell, were tied with bands of flame.
Here also Bartlett writhed; and next to him
An empty tomb for occupation stood.
“Who goes in here?” I asked; and heard a sob.
My guide spoke not, but hastened quick away.



CANTO V.

ARGUMENT.

They find, in especial torment, Harry Clifford, undergoing a specific heat determination on himself in a gigantic calorimeter. Harry Clifford shows that he is still Harry. From Harry Tyler, Arlo learns that he himself has a special hole awaiting him a little farther on.

Soon lamentation loud our notice drew.
We turned one side, an agonist to view
In tomb quite different from the others wrought.
In shape, 'twas like a frustum cone reversed;
And round its walls were layers thickly laid
Of diathermous mixture, that the heat
Should not escape through thin, conductive walls.
Within, in form erect, with anguish pale,
By this huge calorimeter o'erburned,

There stood a soul who hailed us as we came,
 And told us 'twas "essentially absurd
 That so intense a heat should be applied
 When half would do the necessary work."
 Then quickly, without waiting our reply,
 He asked for questions; then I understood.
 'Twas Harry Clifford, doomed forevermore
 To latent heat experiments on man.
 "O, Harry Tyler, awful is the sight!"
 I said, "Yet, tell me this: these tombs contain
 The souls of men of science and of math.
 Are other writers held, therefore, exempt?"
 He smiled.



"I know what prompts that question, well,
 And this can say: all authors have a place.
 E'en you, friend Arlo, soon your tomb will see;
 'Tis further yet in regions of the damned."
 Ah, then I felt the *true poetic pang!*

CANTO VI.

ARGUMENT.

A new phase of the same torture is now seen. The victims are thrust head first into holes, with fire at the bottom. Harry points out the feet of certain especial subjects, and shows Arlo the hole waiting for him. He indulges in a little pleasantry, which Arlo fails to appreciate.

We sped, and found anon a level plain,
 Where flaming winds spread far life-quickening heat;
 And in the ground innumerable holes
 I saw, each round, and of the size of man.
 From nearly all, amid escaping steam,
 Two feet appeared in wriggling agony.
 "Here," said my guide, "are authors also found;
 Such men as Ripley, or as Dewey, damned."
 He placed his hand upon a waving limb:
 "Here Sedgwick twists; alas, poor tortured worm,
 E'en he will turn; observe his suffering soul."
 Then pointing, said: "There Pearson moans; and here
 Is Free-hand Charles, of alphabetic crime;
 And here an empty tomb—can't guess for whom?"
 He gave a hasty push—oh, horrid act!
 My knee-caps seemed to burst upon the bone.
 "Lead on!" I cried: "Oh, thrice accursed spot!
 Lead on! Go to! Be anywhere but here!"



CANTO VII.

ARGUMENT.

At a distance they see a victim dipped into a boiling lake. The sight possesses the maximum of horror. Arlo asks who the victim is; Harry answers, and they depart in thought.



We went; and soon loud shrieks abused our ears.
We turned aside, and saw far off a pool
Of boiling, burning pitch with melted brass
And lunch-room chowder mixed, with heat so great
That e'en the air blazed out in waves of flame.
And by a dozen demons' tridents, held
Above the pool, a tortured being squirmed.
I saw it twist; and as the tridents fell
I heard a splash, and saw encircling fire
Dart up and curl about the nervous limbs.
"Great God!" I cried; "Speak, Harry! Who? And why?"
He turned; "'Tis *Linus*." Silently we went.

CANTO VIII.

ARGUMENT.

They pass suddenly from the intense heat to regions of as great cold. They see many familiar people frozen in a lake; among them Getty. As Arlo kneels and speaks with him, he tells of a new formula he has invented for applied mechanics. He wants it introduced into the Institute, but Harry Tyler, in a burst of humanity, vetoes such a proceeding.

I started, shivered, set my chattering teeth.
A wondrous change—forsooth, 'twas grievous cold!
I looked; beneath my feet was frigid ice;
Snow filled the air, and hail in masses fell.
From heat intense to cold of great degree—
Where even Death received a fatal chill—
We passed, and on a solid lake advanced.
In frozen surface many heads were set,
With faces wry, distort, in ghastly mold.
Here Pope, with frozen smile and frigid stare,
And Bardwell and the others, glared through ice.
There Swain and Peabody, with all the rest,
And Barton—all the mineralgic fiends,—
And all the metallurgic wizards, too,
And many more, in cold embrace were cast.
And one I saw who smiled through icy crust.
I knelt and seized the frosted hair, and turned
The face in broken ice-bonds to the sky.

"How! Getty! Tell me, pray, what think'st thou here!"



"I think," replied the lips,—“but I won't tell,
 Unless you'll promise that you won't applaud.”
 I made the oath required, and Getty spoke:—
 “A new and devilish formula, of terms
 As multiplex and varied in their kind
 As e'er was lunch-room hash, I've just conceived.
 It passes comprehension in its thought,
 And, too—but wait, and I'll repeat it through;
 And you may introduce it into Tech.”
 But Harry—savior guide—then interposed
 And spoke:—
 “Now, Getty, just you look a-here!
 That may be well and good, down here in Hell;
 But up in Tech. I simply draw the line.
 Applied is bad enough up there to-day,
 But as for using this most rancorous rule,
 And introducing it in—no, siree!”
 He turned away, and I in wonder gazed;
 My guide was really human, after all.

CANTO IX.

ARGUMENT.

Arlo, still in a sort of wonder-struck trance, follows Harry, and suddenly finds himself in the upper world, on the edge of the Infernal Pit. He hears an echo of Getty's voice, reciting his formula; he succumbs, and abruptly ends the eventful trip.

We left; and I, still musing, noticed not
 The manner of our passage, when behold!
 We stood in open sky, upon the edge
 Of jagged bowlders, looking dimly down
 At cavernous obscurity beneath.
 And as we stood, from Getty's chattering teeth
 There reached our ears, in echo wildly borne,
 The formula we had so lately fled.
 The language dire enshrouded me in fear;
 I lost control of every wakeful nerve;
 In moaning swoon I sank at Harry's side.
 All things were black; all sounds a distant roar.
 A vision of the hellish hole appeared;
 I felt myself slip slowly o'er the edge;
 I tried to struggle—tried to shriek—to move!
 I strained—I gasped—I stirred! and then—awoke,
 And flunked the Freshman theme o'er which I slept.



"Good phrasing is a matter of Technique."

TECHNOLOGY.

Created in the mind of gifted man,
The Child of Genius, molded into form
Within the cast Experience had shaped,
Then born into the unexpectant world,
It stood: then grew, and moved above and out
Of all the limitations of its day,
Till rivals even lost the power and name
Of being rivals.

Then the pioneer
Reached back, and held assisting arms to those
Who followed on; yet paused not its advance.

As practical in all the works of life,
As Sunlight or as Rain to living things;
And yet of beauty, too, defying Art
To match or reproduce in other form,—
Of beauty equal to the Sun or Rain,—
It stands to-day: stands, but to hasten on.

In all the ways of labyrinthian life,
The thread that it is, that leads the surest way
To ultimate success.—Technology.

RONDEAUX.

THE FRESHMAN.

Rondeau of Chemistry.

Up in the Lab., 'mid fumes and smell,
With salts and alkalis as well;
Clad in an apron checked with blue;
Demurely coy and modest too,—
The fairy Co-ed works her spell.

At sight of her my heart doth swell:
My eyes on her with rapture dwell;
She smiles on me; 'tis pleasure true,—
Up in the Lab.

The beakers crash, my doom to tell;
And o'er my desk the fluids well.
With her around what can I do?
Her presence I most sadly rue—
There's my solution, gone to —!
Up in the Lab.

THE SOPHOMORE.

Rondeau of English Literature.

In English Lit. I sit in thought
And watch the Co-ed, as I ought;
And with an admiration queer
I analyze that Co-ed's ear,
In its cage of hair so sweetly caught.

She sits in front; and long I've sought
To see her face—to know, in short,
That she is fair as well as near,—
In English Lit.

My wish its own return has brought.
She turns, and, oh! the shock I've got!
I'm injured seriously I fear:
And with a disappointed tear,
I wish that she, or I, were not
In English Lit.

THE JUNIOR

Rondeau of Political Economy.

In Pol. Econ. my thoughts take flight
Far from the subject then in sight.

In spite of Dewey's wisdom rare,
My eyes go wandering to the fair
Young Co-ed, seated on my right.

'Tis true, her eyes are very bright;
They thrill me through, until I quite
Forget all but their presence there—
In Pol. Econ.

Alas! that she my heart should smite:
Alas! I drop to bitter night
When, with a chill and icy stare
That almost drives me to despair,
She quenches all my past delight—
In Pol. Econ.

THE SENIOR.

Rondeau of Riddler's.

Across the street, in Riddler's store,
Where oft I go to purchase lore,
There is a nymph so fair and sweet
'Tis true delight to take a seat
Beside her there, just after four.

She's just the kind one must adore,
With eyes that dazzle more and more;
The sort a fellow likes to meet—
Across the street.

But all at once a change comes o'er
The dreamy bliss, for on the floor
There comes a pair of heavy feet.
I buy some notes—and then, retreat;
With just a dollar in the drawer—
Across the street.

THE ETERNITY OF LOVE.

A Sonnet.

Of "Love"—the way that leadeth smile to sigh—
The prize of Life, unconquered e'en by Death—
To heart as dear as to the life is breath—
Who knoweth? One more learned far than I.

"Eternity"—within whose lap doth lie
The Age of Man, as some mere trifling myth,
At thought of which man, startled, marveleth—
To whom doth this give thought's essential tie?

"Eternity of Love,"—a pleasing sound
To me, but nothing more; to some, with traits
That to the owner give a learning bound
Alone in one most favored by the Fates,
Imparteth meaning, giving joy profound.
Oh, who is such a man? PROFESSOR BATES!

THE ANSWER.

A man once tossed in pain, forlorn:
"Oh! why do I suffer?" moaned the hapless one.
E'er his life began the cause was done;
For once from his line a poet was born.

A TECHNOLOGY GAME.

For ways that are shady and games that are queer,
The Profs at the Tech. are peculiar;
Which fact I'll proceed to make clear.

I entered a game, of the small, quiet kind,
As a Freshman, unused to the Faculty mind.
There were four at the table,—the Bursar and I,
Harry T. and the President,—all of us shy.

It was Albert who dealt; and he made as the pot
A solid two hundred; I paid on the spot.
I hardly need say that 'twas Albert who won;
Any deal of the Bursar's 'tis wisest to shun.

The next hand was dealt by His Knibs, Harry T.,
And I, as a Sophomore, paid for the spree.
He made a high ante,—of flunks a good score,—
And he scored me and bored me as never before.

Then the President dealt, and the stakes were made high—
The Power of Expulsion was his kind of pie.
As a Junior I bluffed, and he saw me with ease;
We were even, each showing a couple of threes.

The deal now was mine, and said I to the rest,
As I shuffled and scattered the cards with a zest,
"I'm a Senior, so make for the stakes a Degree!"
And I played—O so foxy—and won my S. B.

L'ENVOI.

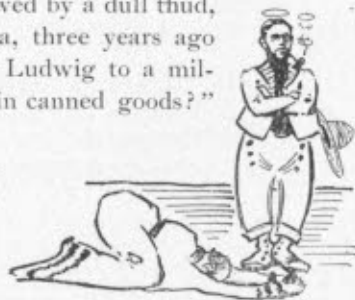
Though you've got a hard game and a stiff one to play,
Though the players are queer in a mighty queer way,
Just wait for your deal, play their own game, and see;
The result can be only a case of Degree.

WHY NOT?

OR, "A HINT TO THE FACULTY."



It was on a dark and stormy night late in December of the year eighteen hundred and ninety-nine that the Faculty of the Institute of Technology crept, one by one, up the steps of the Rogers Building, thence glided mysteriously into Huntington Hall. Not a word was spoken, not a sound made, until the President had shut and locked both doors. Something strange was surely going on. Could it be murder they were plotting? Or had Linus called a secret session in order to renew his annual request that the Technique Board be expelled? Perhaps it was a lynching bee, and Sir Thomas was about to be jerked to regions where sulphur reigns supreme, unmolested by Burns or Bardwell. In great excitement, I rushed to one of the doors leading on to the stage and glued an ear to the keyhole. No sooner had I done so than I heard Webster Wells speaking in a voice choked with passion: "Don't sell the old homestead, Dana; it would break my heart; we have lived here on and off for more than two weeks; think, Dana, think how mother would feel." "Yes, Webbie, I know," broke in Professor Bartlett's sad voice; "and in the awful moment when dark misfortune hangs over us, I can feel for her, but I can't reach her." At this point all I could hear was a confused murmur of voices, out of which I was finally able to distinguish "Sondy's" shouting "That's your cue, Getty! Rush out and throw yourself at Dana's feet." I then heard a patter of little feet, followed by a dull thud, and a high voice said, "Dust remember, Dana, three years ago to-night, when father sold our youngest brother Ludwig to a millinery store for eight dollars, and took him out in canned goods?" "Indeed I do, Getty," responded Dana's voice; "it was on the same night that father sat in the front parlor drinking bean soup, when mother entered and asked him would he; without deigning to reply he struck her." "Ah, I see your memory has not failed you," broke in



Getty's high voice, closely followed by Linus' sweet tones. "Yes, and all that night we sat and wept while the Democrats howled outside." "Yet," interposed Webster's voice, choked with tears, "you would sell the old house with such a flood of memories before you. Think, Dana, think twice before you reveal the contents of the Margaret Cheney Room. Think, I pray you, of the day when 'Tommie' Pope had ringbone and Bardwell took the first year Chemistry course; even now it makes Arlo shudder, for did he not twice in one lecture forget 'immejiately.' Think, I pray you, of the day on which I first met you and asked you never to reveal the fact of my having read one of 'Arlo's poems." At this point Arlo broke in with something about jumping from jag to jag, but was quickly stopped by "Sondy," who reminded him that he was neither lecturing to Course IX. nor in the Technology Club.

"It's your turn, Charlie," said Sondy, when "Arlo" had finally been quieted. "In the few moments before the close of the hour," said "Charlie's" voice, "I want to remind you, Dana, of the day on which I first trusted you for a car fare; why I did so I never knew, unless it was because you were kind to Passano when he ran away; and yet you doubt me when I say I will not bite your dog."

At this critical moment the door against which I had been leaning gave way, and I was thrown violently onto the stage, where a strange sight met my gaze. On one side stood "Dana" Bartlett, dressed in overalls and a "jumper," a corn-cob pipe in one side of his mouth and a straw in the other. At his feet knelt "Getty," disguised as a woman, while behind him stood Webster Wells, clothed in a short muslin dress, such as young schoolgirls wear, his dainty legs encased in red, open-work hose, of appropriate design; on his head a neat sailor hat with the emblem of the M. I. T. Yacht Club embroidered in flaming colors. In the middle of the stage "Sondy" sat upon a high stool, with a manuscript in one hand and a stick in the other. At the back of the stage stood "Papa" Niles, his coat off, his beard tucked into his shirt front, and a jewsharp at his mouth, on which he was playing "Asleep at the Switch," while he leaned over the prostrate form of Albert M. Knight, who, strange as it may seem, had fallen asleep in the very midst of the most exciting moment. The sight was too much for my overwrought nerves; I began to laugh, at which "Getty" said, "Oh! but you mustn't;" and "Charlie" Cross said, "You are the worst class I have ever lectured to; while Harry Tyler said, "See me at once." This I did, and was quickly informed that the Faculty, inspired by



STOP! STOP! STOP! AND OIL UP.

TOMMIE POPE'S CRYSTAL PALACE.

126 Technology Street, Boston.

THE FINEST IN THE CITY!

Suppers Served Immediately.

DR. A. W. ROWE,
NERVE SPECIALIST.

Gas administered on every
occasion.

C. M. LEONARD,
EMPLOYMENT BUREAU.

Class Presidents
furnished on demand.

J. B. LAWS,
PSEUDO-POLITICIAN.

No charge for services.
Apply at Cage.

To INQUIRING FRIENDS,
Pictures of

J. S. BRONSON

and

M. C. BRUSH

may be obtained free at
Cage.

TECHNOLOGY EXTRAVAGANZA COMPANY.

(Introducing many well-known artists.)

Under the management of Jerome Sondericker.

"Petition the Faculty, and All will be Forgiven."

Dana Smilesweet (Farmer)	.	.	.	DANA P. BARTLETT.
Webbie Smilesweet (Dana's Daughter)	.	.	.	WEBSTER WELLS.
Getty Applied (A Kitchen Mechanic)	.	.	.	GAETANO LANZA.
Charlie Goodnature (Motorman and Getty's lover)	.	.	.	CHARLES R. CROSS.
Periodic Harry	.	.	.	HARRY E. CLIFFORD.
Willie Spark	.	.	.	WILLIAM L. PUFFER.

In One Act.

Scene Laid in Massachusetts. Time, Now.

TECHNOLOGY MINSTRELS.

CIRCLE.

Bro. Faculty (Interlocutor)	.	.	.	J. M. CRAFTS.
Bro. Boss	.	.	.	HARRY W. TYLER.
Bro. Desperate Bill	.	.	.	D. DESPRADELLE.
Bro. Pay Tuition	.	.	.	ALBERT M. KNIGHT.
Bro. Warm Sport	.	.	.	HARRY E. CLIFFORD.

SOLOISTS.

Linus Dear	.	.	.	LINUS FAUNCE.
Willie Talk	.	.	.	WILLIAM Z. RIPLEY.
Musical Director	.	.	.	W. H. NILES.

WANTED.

The date on which
CORPORAL BAILEY
entered Technology.

WANTED.

A GOOD PUGILIST
to defend the
Editors of Technique.

WANTED.

ONE DOZEN BOTTLES OF
ANTI-DEBT.
Class of 1900.

WANTED.

ONE CRATE OF CUSS-
WORDS
for immediate use.
CO-EDS,
Chem. Lab.

WANTED.

THE TECHNIQUE BOARD
FIRED.
LINUS FAUNCE.

the success of the Technology Minstrels of last year, had decided to give a minstrel show, for which Arlo had written the words and music; "Getty" and Clifford the jokes. Furthermore, that I had interrupted the rehearsal of a one-act piece, entitled "Petition the Faculty, and All will be Forgiven." The cast, Dr. Tyler told me, I would find on the programme, one of which he handed me; it read as follows:—

LIFE WORK FINALLY COMPLETED.

A CORRECTED EDITION OF THERMO'S PEABODYDYNAMICS. JUST OUT!

Price, \$400.13. Cheap at half the price.

When Dr. Tyler saw I had finished reading the programme and had fully grasped the situation, he asked me if I would be kind enough to stay and criticise the remainder of the performance. To this I readily consented, provided no offense would be taken at anything I might say.



The sketch being brought to an end, and the villain condemned to the awful fate of listening to Arlo read poetry for an hour each day for the space of one week, an imaginary curtain was run down, before which Linus gracefully stepped, dressed in a full suit of pink tights and a smile. He gave a beautiful rendering of a song written expressly for him by Arlo, entitled, "How I Love to Read TECHNIQUE." It was very witty and deserved the hearty applause it received. As an encore Professor Faunce sang a lively little ditty written to the time of "Old Hundred" and entitled "My Popularity,"—words by Professor Pearson, sentiment by Linus himself.

After the applause had died away the curtain was rung up amid the melodious music of "Papa" Niles's jewsharp, and disclosed the usual minstrel circle, backed up by members of the Faculty, arranged with great regard to the "primary mass" by "Free-hand Charlie." The members of the circle were dressed in the uniform of the Tech. Battalion, while the interlocutor wore the major's full-dress uniform, introduced by Major Malaley at last year competitive drill between Technology and The Boston Free Kindergarten Brigade.

The ball was set in motion by Professor Ripley, who sang an anthropology song written by himself for the occasion, and entitled, "The Female Redman and her Pure Life."

When the well-merited applause had died away, a joke contest was started between Harry Tyler and Harry Clifford, and of all the old superannuated chestnuts, the collection sprung by the two Harries was even worse than those used at the Minstrels of Eighteen Ninety Nine. I shut my eyes to drive away the horrible sight, but to no effect, for I imagined myself once more in the clutches of Jack Bronson, and his original jokes so patriotically offered at last year's five-dollar joke contest. The imaginary was far worse than the real. I opened my eyes again, and saw "Getty," Osborne, Peabo, and "Dippie" in their new bottle dance. Each dancer was clothed in a pea-green bottle, out of the necks of which his head protruded, while his legs, encased in light blue hose, sprouted from the bottom. In each hand they carried a small bottle containing an incandescent light; on their heads each wore a large



cake of ice and a box of "Uneda" biscuit. "Dippie" told me later that he found it much more difficult to get on the inside of a bottle than it was to get on the outside of one.

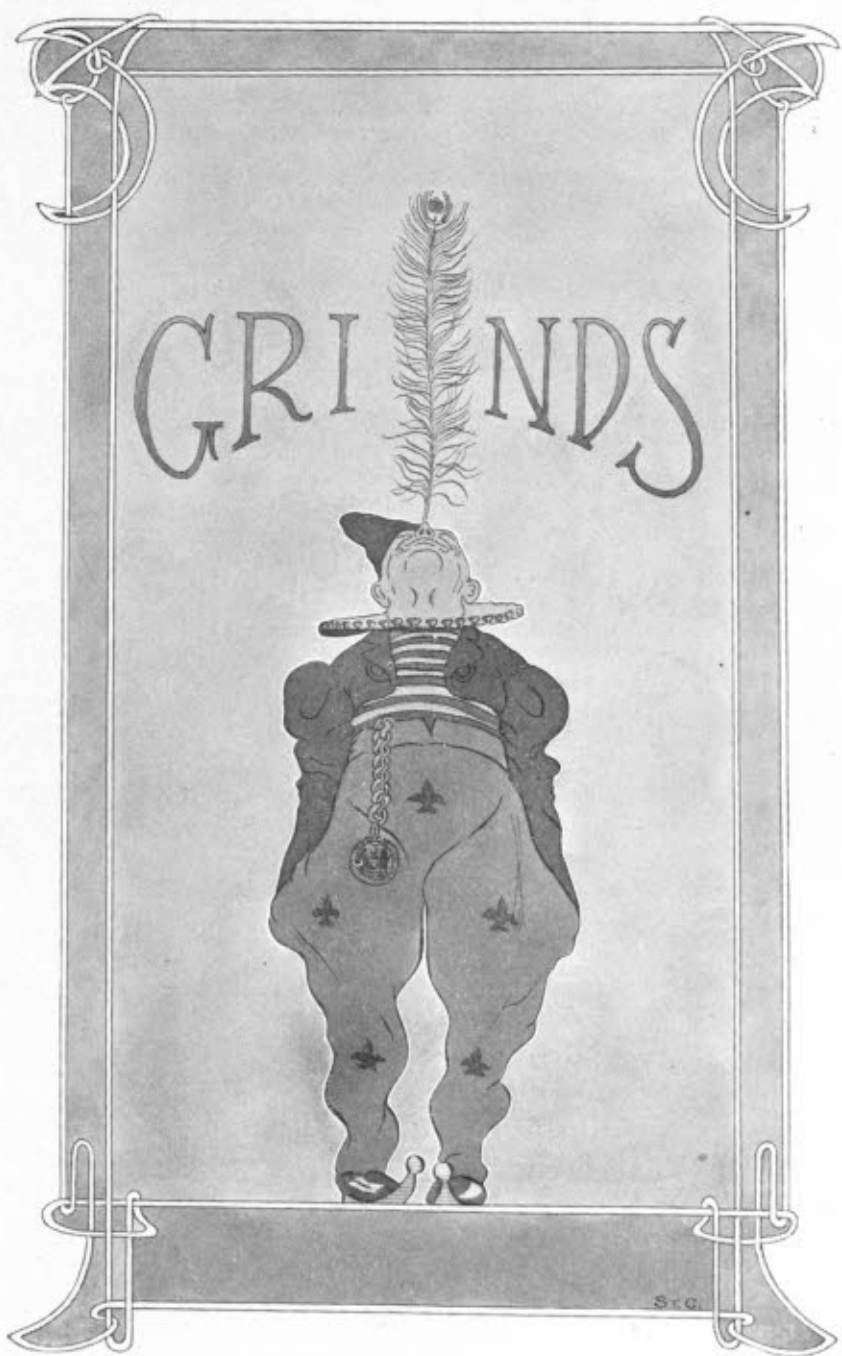
The bottle dance was followed by an anvil chorus, given by Merrick, Smith, and Lambert. The anvils used were a very ingenious invention of "Charlie" Cross, and were made to represent the heads of faithful but retiring students, on whom every form of knowledge-imparting device but this one had been tried.

The Olio was brought to a close by the asking of old riddles, some of which were rescued with Noah when the Ark lit on Mount Ararat, the last one being that respectable old fellow, "What is the difference between a large cast-iron Newfoundland dog on the front lawn of a rich, but mean man, who won't give his only daughter music lessons, and a man with a red beard who has a tame whale, but can't put his name on it because the salt water washes it off." Of course the interlocutor bit, and asked the difference,—to which question Harry Tyler responded with great glee, "One can't wag his tail, and the other can't tag his whale."

The performance ended with a grand ballet in which every member of the Faculty took part, while Albert M. Knight led them in "sprightly dance" in and out through the tangled mazes of a quick step, with a grace the like of which has not been seen since the death of "Jumbo."

I regret to say that the ballet was somewhat hastily executed, as the time for the closing of "Chapel" was near at hand, and every one was anxious to stick Albert for the lemonade. It is needless to say that "Al" got stuck, although a hint was passed around that Linus had to resort to loaded bones to do it.





S. G.



WINNER OF FIRST PRIZE

And Proud Possessor of a 1901 Technique.

DR. DAVIS R. DEWEY, Professor of Economics and Statistics.

DR. DEWEY (speaking of trusts): "Technology is not so far behind the times, for a trust has been formed among its students,—a trust in God during the examinations."

This joke was sprung on the first morning after *TECHNIQUE* announced the opening of the Joke Contest, and it was discovered on looking over Dr. Dewey's notes that he had backed it against the field at odds of three to one, the Bursar taking the short end.

SECOND PRIZE.

Free Interment.

PROFESSOR ALLEN: "There are three kinds of lies,—plain lies, d—n lies, and statistics."

The second prize was awarded to Professor Allen, not on account of the merits of the joke (Mark Twain's jokes are generally good), but on account of the audacity of the man in palming off the work of another as his own. We advise the Professor to read the penalty for so doing in the catalogue.

THIRD PRIZE.

Solid Gold Loving Cup.

Won by JANITOR JOHN, for his famous remark:

"The 1901 *TECHNIQUE* is the best book I ever read for a dollar."

HONORABLE MENTION.

CHARLIE CROSS'S CRANK JOKE.

GETTY'S JOKE: "If I hold this beam two feet from the floor, how much of a load have I got?"

HARRY CLIFFORD also received an honorable mention for good general average.

ALSO RAN.

ARLO'S Yearly Pun.

SEDGWICK'S Joke (third of the series).

SUMNER'S Anti-Nuptial Statements.

ALLEN'S Atchison Topeka and Santa Fé R. R.

REJECTED.

BARTON'S Trip to Greenland.

"Please Explain Your Absence."

Military Science and Business Law.

YE TECHNIQUE GRINDS:

*"Care to our coffin adds a nail, no doubt,
And every joke so merry draws one out."*

WHEN GREEK MEETS GREEK.

JOHN SMITH (Instructor in Industrial Chem.): "Good morning, Mr. Dooley. How is Mr. Hennessey this morning?"

W. H. DOOLEY, '01: "Very well, thank you, Mr. Smith. How is Pocahontas?"

COURSE IX. ENGLISH.

J. P. DRAPER, '00: "Say, Laws, who was Alan Breck?"

J. B. LAWS, '01: "I said he was the kid that got kidnapped in 'Kidnapped.'"

PROFESSOR RUNKLE (three days before last five weeks' test): "Do you all understand this proof thoroughly?"

CHORUS FROM CLASS: "Yes."

PROFESSOR RUNKLE: "Well, then, we will drop hints and go on with the lesson."

OH! NO.

J. S. BRONSON, '01 (to Dr. Dewey after exam. in History of Commerce): "I haven't had a square look at the book, and this is only a big bluff."

DR. DEWEY: "And I suppose your telling me about it is part of the bluff."

TO FILL THE BREACH.

MR. ERHARDT: "Mr. Maxson, you have misspelled conjunctive; there is a 'j' needed. Go to the board, Mr. Maxson."

HOW UNFORTUNATE.

MR. WATTS (distributing printed sheets): "We have to charge fifteen cents for these, Mr. Pope."

MR. WATTS (as Pope hands him a quarter): "Haven't you anything smaller?"

R. A. POPE, '02: "O, that's all right. Keep the change."

MR. WATTS: "You are mistaken, Mr. Pope; I don't make out the marks for this course."

A TIME-HONORED BUG.

PROFESSOR SEDGWICK (in Sanitary Science): "The Kissing Bug is by no means a modern invention, being known to Pliny, and called by him the parasite of the mistletoe."



I never was a graduate;
I don't expect to be one;
But I'll say this, at any rate,—
I'd rather *be* than *see* one.



LINUS' TRUE FRIEND.

MR. DIKE (in French class): "Which way does the accent over the *e* go?"

MAGNITZKI, '03: "Downward, forward and to the right."

ACCORDING TO SCHEDULE.

M. B. FOSTER (to neighbor): "Will you kindly lend me your tabular view?"
Returning the same. "O, yes, this is Business Law, isn't it?"

REMEMBER.

That it has been accurately ascertained that Professor Sedgwick discharges 2146.5 feet of gas during each lecture in Sanitary Science.

That Professor Allen is not the man who carried the message to Garcia.

That you are not compelled to read these facts.

That Arlo doesn't feel half as bad as one would imagine from hearing him read poetry.

That Charlie Cross springs the "Crank Joke" simply for old times' sake.

That Riddler gives a discount of 50 per cent additional cost to all having Co-op tickets.

That the "Chapel" steps and Niagara Falls wear away a half an inch each year.

That The Board is trying to amuse, not offend you.

PREPARING FOR THE WORST.

FRESHMAN (buying drawing instruments): "What do you charge for thumb-screws?"

A. G. HAYDEN (translating, comes to "Verdament"): "I don't believe I can translate that word."

PROFESSOR VOGEL (recognizing that he is a Y. M. C. A. man): "If you have any compunctions about it you needn't."



STRANGER (getting a rear view of J. B. Laws, '01): "What an advertisement for the 'Seats of the Mighty.'"

PROFESSOR CROSS (in Industrial Electricity): "Series motors act much better when you have a load on."

PROFESSOR BARTLETT (explaining a point in Least Squares): "But I said we knew the form of curve to be used, Mr. Baker."

J. E. BAKER, '00: "O well, if you think you know, it's all right."



FOR SALE!
A
DRILL SUIT
FOR A MAN
5' 10" TO 6' 6"
F. H. HUNTER '02



FOR SALE!
A
DRILL SUIT
FOR A MAN, ABOUT
6' 2"
IN HEIGHT.
SUIT INCLUDES
CAP
AND
LEGGINGS.
W. P. R. PEMBER

CORPORAL HARRIS, '02 (looking at advs.): "That's a good picture of Hunter, but I'll be d——d if I'd have recognized Pember if the name hadn't been on it."

MOTHER SAID HE MUSTN'T.

PROFESSOR SONDERICKER (in Applied): "Mr. Hilken, will you prove the proposition for Polar Moment of Inertia?"

P. G. L. HILKEN, '01: "I can't do those things."



LITTLE BILLEE.

He's not so very sage,
Nor so very great in age,
Nor, so far as such inducements go,
So very high in wage,
That duffer in the CAGE.

But 'twould take a half a page
To approximately gauge
The mighty self-importance in
The lengthy persiflage
Of that duffer in the CAGE.

HOW DOES HE KNOW?

PROFESSOR FAUNCE: "If a point is invisible, every one ought to have common sense enough to know something hides it."

APPLIED MECHANICS.



"An Unbalanced Force."

MR. DIKE: "Mr. Koch, translate the first sentence."

H. G. KOCH, '01: "I'm not prepared to-day."

MR. DIKE: "Why not?"

H. G. KOCH: "I didn't think you was going to call on me."

THE BOY GUESSED RIGHT.

FRESHMAN (looking at Bursar's double-barred window): "Gee! I wonder if that's where they keep Linus?"

WITTY SOPHMORE: "That? Why that's the Violent Compartment of Tech's Insane Asylum!"

FRESHMAN: "I know it. That's why I asked."

E. B. BELCHER, '01 (translating): "My eyes became sore, and upon the doctor's advice I laid a fresh egg upon them."

X - RAYS.

PROFESSOR BATES (in English Lit.): "The plot is merely a skeleton. A man who reads a story, that is truly a work of art, simply for the plot, is like a man who admires a young lady for her bones."

AN EXPERT OPINION.

E. MADERO (speaking to waitress, who has just brought an order of mince pie): "Is there any meat in that pie?"

WAITRESS: "I don't understand you."

E. MADERO: "Meat—meat."

WAITRESS: "I don't catch it."

E. MADERO (excitedly) "Meat—meat—M—I—T.; don't you know what that is?"



Why is the Bursar's window barred
With iron, thick and stout?
To keep the boys from getting in,—
Or him from getting out?

QUITE SO.

PROFESSOR CLIFFORD: "Devil(le) has done some excellent work in Heat: in fact we always associate his name with high temperatures."

RAILROAD ENGINEERING.

3d Year.

January 23, 1900.

- N. B. Books, other books, note books, papers and common sense should not be in the possession of students during the examination. If brought into the room for any reason or anything else, they must be left at the shrine of the instructor in charge. If the instructor is not charged, charge him.

Answer any eleven questions.

1. Explain by mathematical formulæ the origin of the Grand Canon. State what you think of the feasibility of deflecting it into the Mediterranean and bridging it with a Searles spiral.
2. What is the connection between a cubic parabola and the Vedas of the Hindoos? Explain.
3. State the law by which God caused the earth to revolve in an ellipse instead of a hypo-hupo-parabola-conchoidal Searles spiral; and if the latter had been its course what would have been the effect on Garcia's message?
4. Draw a cubic parabola between the Middle Ages and the Twentieth Century.
Note. If this question is not clear, insult the instructor.
5. What was the date of the birth of the author of "Allen's Railroad Curves and Earthwork"?
(Note. This, though properly a question in Ancient History, may easily be computed by Summation of Series.)
6. Was General Garcia a member of the French irishtocracy? What connection has this with the Atchison, Topeka & Santa Fé Railroad? Illustrate by diagram, and include an apology.
7. Given two and six degree curves; confound them!
(Oaths registered in the Secretary's office.)
8. If a course in Political Economy has any bearing on Railroad Engineering, oil it, and tell how many feet there are in a 66-pound rail.
9. It is required to introduce a vertical curve to extend the same number of full stations on each side of the vertex. Calculate the amount of intoxicant required to render said stations "full." Cite instances in illustration.
10. With data shown

$$\begin{array}{l} \text{P. T. } 719 + 74 \\ \text{P. C. } 76 + 43 \end{array} \left. \vphantom{\begin{array}{l} \text{P. T. } 719 + 74 \\ \text{P. C. } 76 + 43 \end{array}} \right\} 6^\circ \text{ curve t'L}$$

Find degree of curve to connect switch with a frog in Chestnut Hill Reservoir.

Hand in all work, especially wood work, and all that would'nt.

Time, ten hours.

NAUGHTY MAN.

SAMMY MEAD: "Here, now, your shadow isn't cast correctly."

F. H. BOND, JR., '01: "It ought to be; I copied it from Vignola."

SAMMY MEAD: "Oh! d——n Vignola. That shadow isn't right."

"Ah!" said the Course IV. Junior in Stereotomy, "I see Bass and Porter, but where is Ale?"

J. E. BARKER, '00 (in Electrical Engineering): "The lines of force will pass through the iron core easier than if it wasn't there."

PROFESSOR CROSS: "That's like the little boy who said, 'Salt makes potatoes taste bad when it isn't put on them.'"



Freshman's Dream.

NOT ALWAYS.

MR. ERHARDT (in German Class): "'To lie' is irregular."

Mat Chauncey Brush, for an exam.,
Tried hard his head with facts to cram:
He read the paper, then said d——n.

Oh, my!

Soon after that there came a note
To his papa in Minnisote;
For this is what H. Tylor wrote,

"Good-bye."

But Chauncey knows he is a bute;
So, if he's forced to leave the 'Stute,
He'll take a steamer for Dulut',

Or die.

OVERHEARD AT THE PROM.

POLICEMAN (to CORPORAL BAILEY, as he handed his fair one into a carriage):
"Hurry up, Bailey; you're slow."

SOMETHING SERIOUS.

STONE rises three times in class meeting, and all he said is, "I have troubles of my own."

PROFESSOR BATES "A student makes a great mistake in starving himself to get an education."

F. R. C. BOYD, '01: That's right. The reason I cut Lit. so often is, I'm getting my breakfast."



WENDELL'S IRREGULAR BODY.

DR. WENDELL (in Physics Recitation): "Now take any irregular-shaped body, such as this (rapidly drawing accompanying sketch), filled with any liquid you please. The pressure acts perpendicular to the surface here and here and here. (Drawing arrows.) The resultant is? Mr. Hunter."

F. H. HUNTER (indignantly): "Did you mean me?"



Pucky has the swellest head of any man in Tech.
He has also, (the cut will show), an India-Rubber neck.

US ACTORS.

MR. DRISCO: "Mr. Rowe, what is the unit of work?"

A. W. ROWE, '01: "The Egg."

A WARM BOY.

PROFESSOR PEABODY: "Mr. Islam, can you tell me the temperature of this room?"

A. K. ISLAM, '01: "Seventy."

PROFESSOR PEABODY: Centigrade or Fahrenheit?"

A. K. ISLAM, '01: Centigrade."

DID HE MEAN IT?

J. H. HIRT: "Professor Peabody, why didn't you use moder types of valve gears for illustrations in your book?"

PROFESSOR PEABODY: "Because they would only confuse you, and (becoming excited), furthermore I don't intend filling my books with useful information."

STATE CLEARLY WHAT IS DESIRED
AND GIVE REASONS FOR IT

Boston, Feb 8 1908

To the Faculty:

Gentlemen:

I respectfully petition

to explain, somewhat my
attendance card

It may not appear on
the card that I am a "spec-
ial taking subjects in dif-
ferent years". I shall want
to take (unless other studies take too much
time) advanced Descriptive Geometry with
Freshman Architecture later on; and have
other studies outside Poppe year in view

Respectfully yours,

Harold F. Hills

Second Year.

Course I

Instructor*

*To be specified whenever the petition refers to extracurricular courses.

PROFESSOR CROSS (to students who have been encouraging him by shuffling their feet): "A little more activity at the other end, gentlemen, would not be out of place."

"A Bird in the Cage is worth two in the Bursar's."

CHAIRMAN FRESHMAN CLASS MEETING: "How shall we proceed to vote?"

TUCKER, '03: "I move the votes be counted."

IRISH WIT.

PROFESSOR HOFMAN: "Vie pud pands around de outside of dis furnace, to keep it from pulging out on de inside."

FROM HIS FACE BACKWARDS.

PROFESSOR POPE: "I have here a colorless fluid which has a distinctly blue tinge."



A Pair of Pinchers.

HISTORY UP TO DATE.

PROFESSOR CURRIER: "In England and Scotland we find women, both married and unmarried, at the head of large business firms and families."

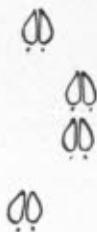


THE STORY OF THE BLUE COW.

A Ballad for Pessimists.

You've heard of how the purple cow
Had a worried sister, who
Was neither red nor green, 'tis said,
But stayed in bed and bothered her head;
For the worried cow was blue.

I forget how it goes, but everyone knows
The tail of this worried cow:
For she passed away, I regret to say,
For fear that the hay wouldn't last all day;
And that is the reason how.



MODERN SCIENCE.

FOLSOM, 'oi (translating): "Dieser galvanische kraft oder polarisirenden wukrsamkeit." "This galvanic force or paralyzed virtue."



When Rip-ley says it is an-thro-
Po-log-i-cal-ly true
(In spite of max-ims old), "*One head
Is bet-ter much than two,*"
"Tis right that we should ask, "Which one?"
But *not* that we should find
The head he has his mind in is
The head he has in mind.

Now Rip-ley makes a ver-y sat-
Is-fac-t'ry sort of man,
Con-sid-er-ing he's built up-on
The Eu-ro-pe-an plan:
But e-ven he ap-pre-ci-ates
How much he's bet-ter fit, O,
To be a Mel-an-es-ian, or
An Af-ri-can Ne-grit-to.



POLITICAL ECONOMY AND REASON.

PROFESSOR RIPLEY: "Which would be the most likely to save money, a man in a shoe factory or a mason?"

A. L. WEIL, '01: "The man in the shoe factory, because he can't run out so often."

The FRESHMAN leaves his happy home
And his indulgent parents,
In places new and far to roam,
And fall on Tech's forbearance.

The Freshman year, for Naughty-Three,
Will bring more pain than lore:
Yet, at the end, how proud he'll be
To be a Sophomore!

M. I. T. KINDERGARTEN TRAINING.

DR. RIPLEY (to Course IX. men in Tariff History): "The point of this senator's speech, gentlemen, is found in the fifth paragraph, beginning, 'Howsoever we may find our fortunes rent,' and so forth; and the point of that paragraph lies in the third sentence, as follows, 'This 37 per cent tax we place as a compliment to the 63 per cent tax advocates of the South.' Now what I wanted to say is that the *point* of this is in the phrase, 'as a compliment to the 63 per cent tax advocates of the South.' It lies, as a slight examination will show, in the word 'compliment,' which possesses here a sarcastic double meaning. The point, gentlemen, the point that I am trying to get at is this,—the pun refers not only to the fact that the 37 per cent tax was complementary to the former 63 per cent duty, but also to the ironical statement that this decrease was complimentary to the Southern voters, although in disobedience to their wishes. As I said, gentlemen, the point of all this—the point that I want you all to grasp—is to be found in the word 'compliment.' The fact that there is an *i* instead of an *e*, gentlemen, gives us the real point that I wish to bring to your attention. It—the point—then, is the one that dots the *i*,—is the one that is over the middle letter of the word 'compliment.' The real *point* of all this, then, is in the *dot*. It is—the point is—it—I—I—gentlemen, I regret that I can't get it any lower than that. Er—is there anyone who would like to ask a *question* upon this point?"

Silence; and the Doctor goes on to the next one.

J. P. CATLIN, '01 (in Valve Gears): "I can't see that without a diagram."

PROFESSOR MILLER: "A diagram. Why! can't you see the wheels in your head?"

SUCH A HOTNESS.

MR. DIKE: "The French people seldom use stoves; they don't need them to keep warm."

'03

ELECTION.

It seems, from the election notice, that the Freshmen have turned cannibals; can it be true?

*for the Institute Committee.
Saturday, February 24, 1900.*

Poles open from 8:45 AM. to 12:30 PM.

I'VE WAITED, HONEY.

J. S. BRONSON, '01 (jumping four lines to translate): "Ich hätte ihr nicht einmal einen Kuss auf den Wange drucken Röwnen": "I could only kiss her once."

PROFESSOR VOGEL: "Hold on, Mr. Bronson, don't be in too much of a hurry for that part of it. (When sentence is finally reached) Now, Mr. Bronson, you may have it."

SONGS AND THEIR SINGERS.

- "If you ain't got no money you needn't come around."—*Albert M. Knight.*
"Love me little, love me long."—*Linus Faunce.*
"Mr. Johnson, turn me loose."—*Getty.*
"I don't care if you never come back."—*Léon E. Barnard.*
"Take your clothes and go."—*H. Wesson.*
"Just a word for father."—*F. F.*
"Send me back my letters."—*Free-hand Charlie.*
"This world is full of maids."—*Russ Glover.*
"Asleep at the switch."—*Professor Allen.*
"I don't like no cheap man."—*Riddler.*
"Only me."—*H. W. Tyler.*
"Visions of home."—*Reports.*
"We never speak as we pass by."—*Puffer and Clifford.*
"After the wedding."—*Professor Miller.*



The home life of our teachers is often far different from that which their conduct at the Institute leads us to imagine. Perhaps Mr. H. C. B. can explain; we sincerely hope so.

OH! I DON'T KNOW.

J. B. LAWS, '01: "Doctor Dewey, aren't you going to New York with the rest of the Admiral's relations?"

DR. DEWEY: "No; there are enough d—n fools going."

HOW FOOLISH.

DR. BURNS: "Are there any questions on the lectures of last week?"

FRESHMAN: "Doctor, can you tell me why peat burns?"

THAT'S DIFFERENT.

S. W. MEAD: "What do you want a thing like that on your design for?"

H. G. KOCH, '01: "You put it there yourself."

S. W. MEAD: "Um—er—well! I guess that will go all right; it looks pretty good."

US FRENCHMEN.

C. H. L. N. B. to T. G. Miller, '02: "You translate very bad; one minute I hear something, then I hear silence."

The SOPHOMORE, recovers now
From homesick, sad misgiving,—
Becomes a rake, and hollers, "Wow!
By Jove, boys! this—— is living!"

The year of riot, for Naughty-Two,
Soon brings its bored transition;
And at its close there comes to view
A Junior's proud position.

TIME HE DID.

CHARLIE CROSS (in Physics lecture): "As this a good place to make a break I will stop."

The JUNIOR very sagely drops
The extras } which defeat him,
past-times, }
And finds content in Proms and Hops,
Where She awaits to greet him.

The dying Nineteenth Century,
Which for the Technique waited,
Resigns to let the Twentieth see
The Junior graduated.

WORSE AND WORSE.

GILBERT TOWNSEND, '02: "Mr. Blachstein, I don't like this book."

MR. BLACHSTEIN: "Why don't you write a book? It certainly would be read from Town'send to Town'send."

HORSE AND HORSE.

G. A. HALL, '00 (after listening to a good translation of a passage on which he has just failed): "I translated it just like that at home."

W. A. READ, '01: "So did I. My trot must be by the same author."

WORSE THAN BLACKSTEIN.

DR. WENDELL (in Physics): "If we could eliminate I it would be all right, but that is not feasible."

LADY VISITOR: "Can you tell me where the Margaret Cheney Room is?"

VAN MERRICK, '00: "Margaret Cheney? I don't think I know her. What course is she in?"

ENOUGH FOR ONE DAY.

PROFESSOR BATES (to Freshman Class in English) : "I am Bates, Professor Arlo Bates, head of the English Department of the Massachusetts Institute of Technology. The instructing staff of this department is overloaded with work, for which reason I take the class to-day. That is all; class is excused."



The new Bird is young and engaging,
But TECHNIQUE for the other one years;
T'was because he was good that we lost him,
For a bad Penny always returns.

I DON'T THINK.

GETTY (seeing doubtful looks in the class) : "Do you all agree, or do you all think the same?"

For a number of years past it has been a matter of much speculation as to the number of foot pounds of energy wasted by PROFESSOR CROSS in climbing the famous spiral staircase. In order to reduce these speculations to facts, DR. DAVIS R. DEWEY, assisted by PROFESSOR GAETANO LANZA, has submitted the following statistics :

During the course of one collegiate year PROFESSOR CROSS delivers the following lectures :—

Color and Acoustics	5 lectures
Industrial Electricity	15 "
Principal of Scientific Investigation	45 "
Physics	90 "
Electrical Engineering	150 "
Total for year	305

The spiral staircase contains 26 steps, each $7\frac{1}{2}$ inches high, making a total rise of $16\frac{1}{2}$ feet, through which CHARLIE is compelled to raise himself 305 times a year. According to which his total rise per year is $4,956\frac{1}{2}$ feet, or .938 of a mile. From which point DR. DEWEY assures us the "crank joke" would not be audible. But to calculate the loss in foot pounds it is also necessary to know CHARLIE'S weight, which varies from 153 pounds in the fall to 139 in the spring, or an average of 146 pounds; therefore the loss of energy is $723,612\frac{1}{2}$ foot pounds. Furthermore, CHARLIE loses 14 pounds of meat, which, figured at $22\frac{1}{2}$ cents per pound, reduces his value by \$3.15, making him worth \$31.28 at the end of the school year.

It has been suggested that if this now wasted energy could be applied to DIPPY, it would enable him to carry without any extra exertion not a load of 3 pounds but one of 161 pounds, thereby greatly increasing his efficiency. Or, if DIPPY is now under a maximum load CHARLIE could carry it for him for no less a time than 67 years 1 month and 26.3 days. Then, again, this energy might be applied to Nancy Hank's langustic machinery; in such a case it would propell, at PROFESSOR CURRIER'S own rate, 92,746,008.02 words on any but European History; in this subject 4,773,412,110 words could be articulated. (PROFESSOR LANZA has given Nancy the benefit of the decimals after the tenth place.)

MASS. INST. OF TECHNOLOGY
TO PATRICK J. LEARY, CARPENTER,
Boston, April 15, 1899.

RECEIVED PAYMENT
\$75.00
\$50.00
\$125.00

DR. INSTITUTE OF TECHNOLOGY.
Bursar's Office, April 5, 1899.

Dear Sir:--

Your letter in regard to the storing of the bicycles has been received. I quite agree with you and can give you, better than the hallway you request, a whole building for this purpose. This will be erected immediately, in the rear of the Pierce Building. I believe this will prove satisfactory.

MASS. INST. OF TECHNOLOGY
Boston, April 30, 1899.

Yours truly,
Albert M. Knight, Bursar.

MASS. INST. OF TECHNOLOGY
TO PATRICK J. LEARY, CARPENTER, DR.
Boston, April 15, 1899.

RECEIVED PAYMENT
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\$32.00
\$770.00


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1900 ELECTION.

SENIOR: "Who is up for class president this fall?"

SECOND SENIOR: "C. M. Leonard."

FIRST SENIOR: "Who nominated him?"

SECOND SENIOR: "C. Milton Leonard, Clifford M. Leonard and Clifford Milton Leonard."

FIRST SENIOR: "Who is running against him?"

SECOND SENIOR: "Oh! Clifford M. Leonard, C. Milton Leonard and Clifford Milton Leonard."

FIRST SENIOR: "Do you think he will be elected?"

SECOND SENIOR: "Well! I don't know; but it wouldn't surprise me in the least if he should get it. He certainly is doing all he can to get the election. I'm going to vote for him."

FIRST SENIOR: "Pardon me; but I don't believe I caught your name."

SECOND SENIOR: "My name is Leonard; C. M. Leonard."

PROFESSOR CROSS (in Physics): "We will now perform several experiments in the dark, so that we may see the results more clearly."

The Pig.

J. R. BROWNELL (translating): "Sie wolte aus Eigensenn einen bluhenden Zweig selbst brechen." "Out of obstinacy she wanted to break off the whole blooming branch."

THE JUNIOR'S LAMENT.

The Profs all agree that *Taxation* is thoroughly proper;

Yet *Double Taxation* no man in the world should permit;

And the *Single Tax* scheme would reduce every man to a pauper.

Well, that may be so,

But I'm hanged if I know

How to make those consistently fit!

HUNTER, '02: "Look here, Adams, there's an awful break in this week's TECH."

ADAMS, '02: "What is it?"

HUNTER: "They've put in a story with a point to it."

We are pleased to be able to present to the readers of *TECHNIQUE* the first printed version of the new poem by the gifted young author, Arlo Bates. The following is called "An Eye-lid's Idyl," and is one of his latest and finest works.

To you who feel and know not what ye seeming touch:

That even night comes now amain the blast of Heaven,

All shadowless to lie, and show no place whereon

The pall envisaged thus to Love can give its Hope.

So that there in thine own, thy soul, doth seem to speak,

As with a trembling accent: He whom Death will reap—

When Death pursues with stretching clutch,—a brighter morn,

A morn where shadows do not fall,—is he who lives

Thrice blessed in Consummation's gilded hand, his wish.

FOR ONCE THE CLASS AGREED WITH HIM.

PROFESSOR CLIFFORD (in Heat lecture): "So far, gentlemen, I have told you nothing."

The SENIOR, ending "college life"

(A manifest misnomer),

Now culminates his four years' strife

By taking his diploma.

And thus each man of Naughty-Naught,

With Fortune smiling o'er him,

Begins with glee—as sure he ought—

The business life before him.

In spite of Mr. Rimer's protests to the contrary, we cite the accompanying clipping as an example of the widespread influence and moral effect of our Minstrel Show. It is hardly necessary to say that Professor Faunce's genial good nature was one of the features of the occasion.



HOW CONVENIENT.

PROFESSOR BARTON (lecturing on Trip to Greenland): "Now, gentlemen, you see upon the screen a picture of some Esquimaux women. Yes, these are ladies; you can always tell them by the broad stripes on their trousers."

A FACULTY MEETING.



THE regular semi-occasional meeting of the Faculty was pulled off, between the hours of eleven P. M. and five the next morning, in one of the subterranean vaults of the Mining Department. The members of the severe and austere body were seated around a long, flat table, the top of which had the appearance of having been recently moistened in numerous places by some article with a circular base.

The President, having locked the door at exactly five minutes past the hour, called the meeting to order; while Tommy Pope, with a diagram of the seats before him, checked off the absent ones, to whom the President ordered notices to be sent. The usual prayers were about to be offered by Linus Faunce, when the President remarked that special permission had been obtained from Mr. Reimer, 'oo, to omit the ceremony in opening the meeting. Harry Tyler, being the only one who could tell time, read the minutes of the last meeting; and the Bursar busied himself in collecting dues. In this proceeding several scrimmages occurred; one due to Dr. Dewey, who declared money was without intrinsic value, and, therefore, the Bursar had no right to ask for it. To which "The Knight Off" replied that the Doctor had no business to hold on to it then, and was about to mention a small cheque that was called for pretty regularly, when he was called to order by the chair.

"I have been informed," said the President, "upon authority substantiated by the reports of the recent examinations, that Corporal Bailey has kindly decided to prolong his stay with us for another year. A motion is now in order that a committee be appointed to draw up resolutions thanking the Corporal for this last manifestation of the continued high regard and esteemed consideration in which he holds the Institute. The motion was made, and immediately recorded by the Bursar, who woke up for that express purpose. Albert was made a committee of three to draw up the resolutions.

Harry Tyler, who had been sending B. E. T. A. cards, now stood up and asked for the opinion of the Faculty on the question of the advisability of establishing a new course at the Institute, to be known as "Fourteen, or Landscape Raising."

Professor Hough sprang to his feet, bowed to all sides, and said: "Mr. Chairman, I think it would be much preferable to establish a course in Cookery and Baking, under the title, say, of 'Alimentary Science.' You don't know how essential it is that we all should have good food. To be sure, Sedgwick gets along all right by eating Chinese sea-weed and chewing the rag." Professor Sondericker now became violent, his arms wildly waving, and his eyes flashing in a manner at once striking and appalling.

"Professor Sonder-rubber-necker has the floor," roared the President. The Professor, then winking at the Biologist, said in his usual retarded motion voice: "Ladies and Gentlemen: I am in favor of the new Landslide Gardening course on the grounds of superstition. Thirteen is a bad number; I'm for fourteen."

Cries of "Hear! Hear!" came from Tommy Pope, who immediately jumped to his feet and said, "Fellers, I was born on the thirteenth day of the month, and look at —" "Enough! Enough!" yelled Charlie Cross; "I'm convinced." At this point Harry Clifford claimed the floor. "Are there any questions on the subject-matter of the last statement? From which," he continued, "it will be readily seen that the superstition against the number thirteen has indeed good grounds to stand on." Here the Faculty began to stamp, and Getty became unmanageable, and shrieked, "Oh, but you mustn't!"

Time being called at this point, silence ensued, broken only by a deep, cool, rhythmic gurgling and a long, satisfied sigh from the members as a number of glass calorimeters were tenderly replaced upon the table.

Now Harry Tyler arose and requested attention. This was granted by all except Tommy Pope, who, however, appeared to exchange it for Avagadro's Law. The deal being made, Harry spoke as follows: "I have here numerous petitions relating to school matters, and a lot of rot like that. I move we refuse them all." The matter was a vote before the words were out of his mouth, and business proceeded by the President's calling "Next!"

Linus Faunce arose. "Gentlemen, I have a little matter I wish to speak of, and it's this: 'TECHNIQUE' is getting unbearable. Not that I care about myself, but it's positively disrespectful to the rest of the Faculty. It detracts from your dignity. I myself don't feel as much respect for you as I did twenty years ago, before I read *TECHNIQUE*. Take Charlie Cross, for instance; the last *TECHNIQUE* had"—(interruption from Charlie's vicinity, "Here; stop that!")—"or take your own case, President Crafts"—(President, "You're out of order, Professor Faunce"). "Well, take any old case"—(cries of "Try your own"). "I won't! Just for example, there's a slander on Arlo B——"—(Arlo, "Question! I move the question!"). "Well, then, I move that the *TECHNIQUE* be perpetually sup-

pressed, and that the Boards of this year and last be immediately expelled." "I second the motion," came from Tommy and Arlo simultaneously. "Any remarks?" asked the President, uneasily; "I don't advise any." "Well," said Harry Tyler, "before we move in this matter I should like to ask how many read *TECHNIQUE*. All that do please rise." There was a general indecisive commotion, and the Bursar half rose; then seeing that he was alone, quickly sat down again. "I suggest that before the matter is put to vote," said Harry, "that a copy of the book be obtained and read before the meeting." Here Dr. Dewey interrupted: "I understand that there are no more copies to be obtained. They're all sold. I—I was trying to get one for a friend's little boy." Harry Clifford then stood up. "I don't want to appear especially bright," he said, "or in any way to cast discredit on the Faculty, but I think there is a copy in the general library, which I'll go up and get." But Arlo, growing visibly pale, cried, "I move the matter be laid on the table." It became a vote in a second, and the meeting adjourned after singing the "Stein Song."



THE INSTITUTE UNDER PRESIDENT CRAFTS.



IT was with genuine regret that the students of the Institute learned of the following letter from President Crafts to the Executive Committee of the Institute:—

MASSACHUSETTS INST. OF TECHNOLOGY.

BOSTON, Oct. 24, 1899.

To the Executive Committee of the Massachusetts Inst. of Technology:

Gentlemen,—I wish to communicate to you my desire to resign the office of President at the expiration of the school year of 1899-1900; and I write at present, in order that you have due opportunity to consider the choice of a successor.

My reasons for taking this step at this time are founded upon my desire to return to purely scientific occupations. My term in office has shown me the wide field of educational problems, both within and outside the Institute, which should be studied; and I have found that such studies and the performance of administrative duties, although not in themselves burdensome, leave little freedom for the pursuit of experimental science. A choice must be made between administrative and scientific occupations, and it is the latter which I wish to choose.

The office with which you have honored me, perhaps in consequence of my long connection with and interest in the school, has brought me into more intimate relations with the government of this great Institute, with its instructing staff and with many of its students; and I look with great pleasure to these few years of educational work, and particularly to my participation in the deliberations of the Executive Committee, which have led to close and friendly relations with its members.

All these ties are severed with great reluctance, to return to a field which aroused my early enthusiasm and which still claims my most active interest.

Yours respectfully,

J. M. CRAFTS.

Professor Crafts has long been intimately connected with the work of the Institute in several of its branches. In the year 1870 Professor Crafts, then in charge of the Chemical Department of Cornell University, accepted the call of the Institute, and came to Boston to take the chair in General and Analytical Chemistry, left vacant by the departure of Professor Storer. At that time General Chemistry not only included the work now carried on under that name, but also the courses in Quantitative and Organic Chemistry; the laboratories for this work occupying about two-thirds of space now used by the Mining Department, in the basement of the Rogers Building. When Professor Crafts first took up the work of the Chemical Department he introduced a German text-book by Kekuli, a most exhaustive and complete work in three volumes, the lessons in which covered over 1,200 pages octavo. The students at first demurred at having to use as a text-book one written in German, while some thought their lives endangered by this work, yet many lived to tell the tale and enjoy the book.

Professor Crafts held the chair in Chemistry until 1875, when he was obliged to resign on account of ill health. From 1875 to 1891 he lived chiefly in Paris, occupied with researches both in Physics and Chemistry at the Ecole des Mines, often in conjunction with Professor Fridel, who then occupied the chair of Organic Chemistry. In 1891 Professor Crafts returned to Boston to carry on his chemical and physical investigations in the laboratories of the Institute. During the same year he was elected a member of the Corporation of the Institute, and after the departure of Professor Drown to Lehigh University, he became head of the department of Organic Chemistry.

On the sudden death of President Walker, in January, 1897, the thoughts of the Faculty and Corporation turned for leadership and guidance to one whose long association with and interest in the Institute had made familiar with its every detail. These thoughts naturally centered on Professor Crafts, who early in 1897 was appointed Chairman of the Faculty, which position he retained until his election to the Presidency the following autumn.

The time which has intervened since Professor Crafts assumed the duties of President of the Institute has been eventful in the history of the school, and with all this progress the President has been most actively identified. Many additions and improvements have been made to the buildings; and a great part of the work to which General Walker looked forward for so many years has at last been accomplished. President Crafts, like every one else, regrets that General Walker could not have lived to see the great strides which the Institute has made toward that goal for which he had so long planned and hoped.

It had been General Walker's plan that the Institute, when it acquired

sufficient pecuniary support, should continue the five-story wooden construction of the Engineering Building into a structure similar in outline to the present Pierce Building, to which all the laboratories, now in the Walker Building, should be removed. But when it became possible, through the generous gift of Henry L. Pierce, to add the much-needed space, the value of the land had so increased that the five-story wooden construction was found to be impracticable. Both for this reason and also on account of the added strength and security, iron fire-proof construction was used for the first time, and the building extended six stories instead of five. It was also deemed advisable not to remove the chemical laboratories from their well-equipped quarters in the Walker Building.

The architectural work for the Pierce Building was undertaken by Professor Homer; while Professor Lawrence, aided by the advice and counsel both of Professors Swain and Lanza, took charge of the iron and structural work. The Heating and Ventilating was planned and constructed under the supervision of Professor Woodbridge. And a new system of lighting, in which the light is distributed by means of incandescent lights and reflectors placed in the ceiling, was introduced in the drawing rooms by Professor Puffer.

The floor space acquired by the addition of the Pierce Building furnished the opportunity for the much-needed extension of the Engineering Laboratory and the acquisition of a great deal of machinery long wished for by that department. The boiler house in the rear of the Pierce Building was also enlarged, and a modeling loft fitted up in its second story for the use of the fourth-year Architects. The Architectural Department, as well as the Departments of Biology, Geology and Industrial Chemistry acquired much space in the new building. These departments are now so well situated and their quarters so well equipped that they are considered the most advanced accommodations for scientific teaching in America.

The removal of the Departments of Biology and Geology from the Rogers Building afforded space for the much-needed extension of the Mining Department, which had long since outgrown its cramped quarters. Also the long-hoped-for General Library was arranged in the north end of the building. The Mathematical Department likewise shared to some extent in the expansion of the Institute, gaining the use of Room 20 of the Rogers Building, which has been fitted up as a mathematical library for the use of instructors and advanced students. This library has been named after Professor Runkle, who alone gave to it a collection of 450 volumes, including works on mathematics and astronomy, besides numerous pamphlets.

The libraries of the Institute, under the care of Dr. Bigelow, have all

shared in the growth of the school; since 1889 they have increased from 17,545 to 50,149 volumes, last year alone 3,438 volumes being added. Their growth has been so great that at the present time the Institute possesses one of the finest scientific libraries in the world, representing a calculated value of \$112,866.

When the arrangement of rooms in the Pierce Building was under discussion by the Faculty, it was decided to set apart one room to be used by the women students as a gymnasium; but not until last year was the establishment of a regular course in gymnastics thought of. Through the will of the late Miss Marion Hovey the Institute received a substantial gift to be used for the above purpose; and now the women of the Institute have at their disposal a small but well-equipped gymnasium, situated on the first floor of the Pierce Building and opening from the Margaret Cheney Room.

Under President Crafts the funds and property of the Institute have increased beyond the fondest hopes of its most ardent friends and supporters. In the year 1898 the Treasurer's report shows an accession of \$928,000 to the general funds, of which \$750,000 was received from the estate of Henry L. Pierce, this being the largest sum ever given to the Institute by one person. Forty-six thousand dollars was also acquired by the scholarship funds during the same year. In the report for the year of 1899 the Institute, after paying the income tax of \$60,000, received from the estate of Edward Austin \$340,000, to be used for purposes designated in the will. During the year Augustus Lowell has given \$50,000, to be used as a nucleus of a fund, the interest from which is to be employed for the benefit of the instructing staff in case of illness, retirement or death. In addition to the money already received from the Henry L. Pierce estate, the Institute received a further sum of \$30,000, making the total amount of money acquired during President Crafts' administration approach the munificent sum of one and a half millions of dollars.

Two new courses have been added to the Institute's already long list. The most important one is that in Landscape Architecture, which has been planned to diverge from the regular architectural course in the second year. Mr. Guy Lowell, who graduated from the Institute with the Class of '94, and who has within a short time received a diploma from the School of Fine Arts in France, will have charge of the lectures on this subject. An option in Heating and Ventilation has also been added to the Course in Mechanical Engineering, and will be in charge of Professor Woodbridge.

Although the Institute under President Crafts' administration has not materially increased the number of its students, its facilities for scientific teaching have been greatly augmented, and thus has been made possible the maintenance of that high standard of education for which it has been famous throughout its whole existence.

QUOTATIONS



QUOTATIONS

"Good phrases are surely, and ever were, very commendable."

"Words are but pictures, true and false designed."

(Technique, 1895.)

"Fine words; I wonder where you stole 'em."

(Technique, 1897.)

Yet, though such words in truth we often find,
They come in falsehood, too; we can't control 'em.

We need "a college joke to cure the dumps";

(Technique, 1898.)

For that we seek; "when found" we "make a note of it."

(Technique, 1900.)

'Tis thus that we collect, in bits and lumps,
The wisdom of the sage, and make a quote of it:

And gathering phrases, bit by bit,

For every man we see,

We try to "quote hym toe a fitte,"

(Technique, 1899.)

And "fit him to a T."





"It is a familiar beast to man, and signifies love."—*The Cored.*

"Hard students are commonly troubled with gowts, catarrhs, rheums, cachexia, bradypepsia, bad eyes, stone and collick, crudities, oppilations, vertigo, consumptions, and all such diseases as come from overmuch sitting; they are for the most part lean, dry, ill-colored, and all through immoderate pains and extraordinary studies.

—*Beware of Tech!*

"We shall soon say our prayers in French." (! ?)—*C. H. L. N. Bernard.*

"F(r)iction entices and deceives,
And, sprinkled o'er her fragrant leaves,
Lies poisonous dew." [Due, \$1.50.]

—*Lanza's "Notes on Friction."*

"From tavern to tavern
He saunters along,
With an armful of girl
And a heartfelt of song."—*Justus Erhardt.*



"Farewell; thou art too dear for my possessing."—*S. B.*

"'Twas for the good of the country that I should be abroad.—*Leon Bernard.*

"Cut and come again."—*Keith's.*



"Oh, what a tangled web we weave
When first we practice to deceive!"

—*The Soph in his regular Autumn Drill Suit Sale.*

"Be patient till the last."—*R. W. Bailey, '99, '00, '01, '02.*

"Help, angels! make assay!"—*In Mining Lab.*

"Learn to read slow; all other graces
Will follow in their proper places."—*Prof. Currier.*

"As the Destinies decree."—*Reports.*

"What my heart taught me, I taught the world."—*Professor Runkle.*⁴

"A hit; a very palpable hit."—*The Private Secretary.*



"There are moments when one likes to be alone."
—*The Freshman's first day.*

"He insists on speaking barbarously."—*Weary Walker.*

"Though this may be play to you,
'Tis death to us."—*Descrip.*

"Tell me, my soul, can this be death?"—*Call on the Bursar.*

"Slave of the dark and dirty mine."—*Course III. man.*

"I stand not upon the order of my going, but go at once."
—*Miss Gleason.*

"The outward forms the inner man reveal."
—*C. H. L. N. Bernard.*



"An affable and courteous gentleman,
Great of heart, magnanimous, courtly, courageous."
—*President J. M. Crafts.*

"Thy wish was father, Harry, to that thought."—*Alumni Gymnasium.*

"That indolent but agreeable condition of doing nothing."—*Course V.*

"I drink when I have occasion, and sometimes when I have no occasion."—
J. D. Evans, '01.

"Repeating things behind."—*FF.*

"I have an exposition of sleep come upon me."—*In Physics Lecture.*



"A deed of dreadful note."
—*Minstrel Sunday Rehearsal.*

"An excellent scholar; one that hath a head filled with calves brains, without anything sage in it."—*H. P. McDonald, Jr., 1901.*

"Great minds are sure to madness near allied,
And 'thin' petitions set their bounds aside."—*The Faculty.*

"The music of Brooks silenced all conversation."—*P. R. Brooks, '00.*

"Which not even critics criticise."—*Minstrel Show.*

"You see they'd have fitted him to a T."—*Derby.*



"Of military drill he had his fill."—*Lieutenant Hamilton.*

"Man seems the only growth that dwindles here."—*At Tech.*

"I tax not you, you elements, with unkindness."—*P. C. Pearson, V. ex- 1901.*

"This is very midsummer madness."—*Summer Reading.*



"Go, little booke! Go, my little tragedie!"

—*Applied.*

"Of all speculations the market holds forth,
The best that I know for a lover of pelf,
Is to buy Marcus up at the price he is worth,
And then sell him at that which he sets on himself."

—*H. C. Marcus, '01.*

"Our armies swore terribly in Flanders, but nothing to this."

—*Freshman doing Plate IX.*

"On the stage he was natural, simple, affecting;
'Twas only when he was off he was acting.
With no reason on earth to go out of his way,
He turned and he varied full ten times a day."—*A. W. Rowe, '01.*

"My heart's in the Highlands, my heart is not here;
My heart's in the Highlands, a-chasing the dear."

—*F. L. H. Kimbal, '99.*



"Come, gentle spring! ethereal mildness, come!"

—*Linus.*

"Much may be said on both sides."—*Pol. Econ.*

"Why, then, do you walk as if you had swallowed a bedspring?"
—*L. Emery, '00.*

"So, command
Exists but with obedience."—*Lieutenant Hamilton.*

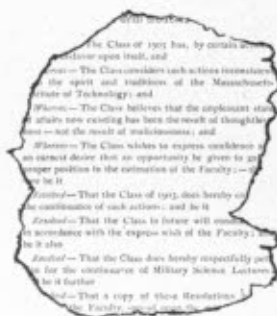
"The next thing to the real is the picture of it."



"It happens as with cages: the birds without despair to get in, and that within
despairs of getting out."—*In Rogers.*

"He speaks an infinite deal of nothing."—*Dr. Sedgwick.*

"That would hang us, every mother's son."
—*The Rejected Joke.*



"Has it come to this!"

"This difference only: as the god
Drove souls to Tartarus with his rod,
With his goose-quill the scribbling elf,
Instead of others, damns himself."—*F. H. Hunter, '02.*

"Who shames a scribbler."—*The Lounger.*

"Here will be an old abusing of the King's English."—
—*Prof. A. R. Rambeau.*

"Vile intercourse, where virtue has no place."
—*1902 Class Meetings.*

"Oh! then remove that impious self-esteem."

—*M. W. Hall, '00.*



"How much, methinks, I could despise this man,
Were I not bound in charity against it!"

—*Danforth, '01, vs. Danforth, '01, in the Class Elections.*

"The multitude is always in the wrong."

—*Hamilton vs. the Freshmen.*

"And out of mind as soon as out of sight."

—*Applied Mechanics.*

"He studied law, won much fame—

Then back to academic came"—*Mr. Willard.*



"In the midst was seen
A lady of a more majestic mien,
By stature and by beauty marked their sovereign Queen."

—*President of the Cleofan.*

"He wrote for divers papers, which, as everybody knows,
Is worse than serving in a shop or scaring off the crows."

—*C. W. Corbett, '00.*

"Subscribe, and be a hero."—*To the Tech.*

"Who wooed in haste, and means to wed at leisure."—*Prof. Miller.*

"They'll take 'suggestions' as a cat laps milk."—*Freshman in Free-hand Drawing.*

"The name of the whole atrocious mass is" *Spooford.*



"Wedding is Destiny—
Hanging likewise:"—*Lodge and Hamilton.*



"Now unmuzzle your wisdom."—*At the Finals.*

"I know everything, except myself."—*L. E. Williams, '01.*



"Man was made to grow, not stop."
—*W. W. Stone, '00.*

"Oh for a coach, ye gods!"—*1903 Football Team.*

"Brain him with his lady's fan."—*J. S. Bronson, '01.*

"Vous me demanderez si j'aime la sagesse.
Oui; j'aime fort aussi le tabac à fumer."—*Le Senior.*

"A kind
Of excellent dumb discourse."—*Physics Recitation.*

"There's nothing ill can dwell in such a temple."
—*Chapel.*



"Aye, marry."—*Prof. J. O. Sumner.*

"Dreams are the children of an idle brain."—*The Lounger.*

"Think of your ancestors, and your posterity."—*Leach and Moulton, '00.*

"A simple child, that lightly draws its breath,
And feels its life in every limb,"—*The Freshman.*



"Oh, jest unseen, inscrutable, invisible,
As a nose on a man's face, or a weathercock on a steeple!"—*Arlo's pun.*

"This grief is crowned with consolation."—"No Drill This Week."

"So skilled in policy
That (no disparagement to Satan's cunning)
He well might read a lesson to the Devil,
And teach the old seducer new temptations."
—*J. B. Laws, '01, Politician.*



"They also serve who only stand and wait."
—*At Tech. Lunch Room Counter.*

"Egregiously an ass."—*A man named Hamilton.*

"If it were done when 'tis done, then 'twere well it were done quickly."
—*Descrip. Problem.*

"None but himself can be his parallel."—*H. W. Tyler.*

"Jack sucked his pipe
Like a baby a bottle."—*J. S. Bruns, '01.*



"We bear it calmly, though a ponderous woe."—*Summer Reading.*

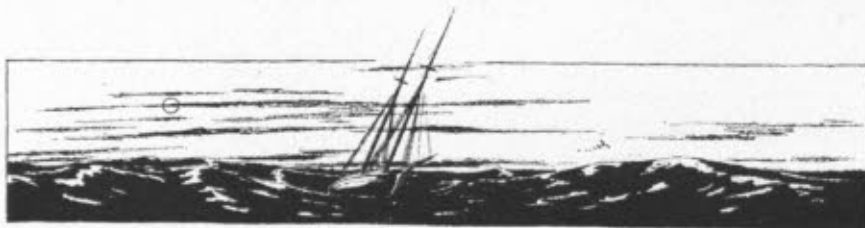
"Ye gods! I am a man after my own heart!"—*L. E. Williams, '01.*

"Not to be taken from the Library."—*Dr. R. P. Bigelow.*



"When the cruel rod of war
Blossoms out in righteous law."

"LET DOWN THE CURTAIN: THE FARCE IS DONE."







DR. HENRY S. PRITCHETT.

DR. HENRY S. PRITCHETT.



HE Fall of 1900 will find the reins of government of the Institute in the hands of Dr. Pritchett, the present superintendent of the United States Coast and Geodetic Survey. Dr. Henry S. Pritchett was born on April 26, 1857, at Fayette, Mo., and is the son of Prof. C. W. Pritchett, the director of the Morrison Astronomical Observatory at Glasgow, Mo. His early student life was spent at Central College in Fayette, from which institution he went to the Naval Observatory at Washington, where he continued his studies in mathematics and astronomy under Professor Hall. Later on he left Washington to enter the University of Munich, where he received the degree of Doctor of Philosophy.

Dr. Pritchett has held many positions in the scientific departments of the Government, the first being that of computer at the observatory in Washington. In 1878 he was appointed assistant to Professor Hall, and in the same year was sent to Colorado to observe a total eclipse of the sun. His official report of that event stamped him as an astronomer and scientific man of high ability. Since this first report Dr. Pritchett has published numerous technical papers, giving the results of much original investigation both in astronomy and geodesy, which paper has attracted much attention in the scientific world. In 1880 he was made head astronomer at the Morrison Observatory, which position he only held for one year, resigning it to accept an assistant professorship in mathematics and astronomy in the Washington University at St. Louis. During his connection with that university Dr. Pritchett was a member of an expedition sent by the National Government to New Zealand, to observe the transit of Venus. He also spent a year traveling through India, China, Japan and New Zealand making pendulum observations for determining the figure of the earth. In 1884, on his return from this trip, he was made a full professor of mathematics and astronomy at the Washington University.

In 1897 Dr. Pritchett was called by the President to the head of the Coast and Geodetic Survey, the oldest scientific department of the National Government. When he assumed the duties of this office the bureau was in a badly demoralized condition, having been for years the puppet of political influence. It was in the reorganization of the department and the introduction of new methods that Dr. Pritchett showed his great administrative ability and directness of purpose.

In selecting Dr. Pritchett to fill the chair left vacant by the resignation of President Crafts, the corporation has wisely chosen a man whose experience both in scientific and administrative affairs has eminently fitted him to carry on the duties of governing so great an institution as the Institute.

IN JUNE.

I AM fond of getting letters, let them be of any kind;
Just to take one from the Postman is delight and joy combined.
Any sort of written missive throws me into youthful glee,
Just to see the stamp and postmark, and to know it's all for me.
E'er I seize the little packet, tear it open and peruse,
I sit back among my cushions, and examine it and muse;
And I wonder who has sent it, and just what it's got to say,
And how long it's been in coming; if the writer's far away.
Then I tear it slowly open, draw a breath and shut my eyes;
Then suddenly I open them, and look with glad surprise
Upon the written characters which tell the message there
That I've tried to guess beforehand as I've lingered in the chair.

Then just fancy what a spasm my delight is carried through
As I find the small epistle is a little billet-doux!
And imagine with what rapture I discover that the note
Is a pressing invitation from—say Nell, on whom I dote!
If you feel a bit romantic, try to picture with what glee
I repeat the closing sentence, "Come to-morrow, dear, at three."
Just imagine how the heavens seem with rainbows to be spanned,
As I kiss the dainty message in that pretty, stylish hand!

∴ ∴ ∴ ∴

All of this your mind can picture,—you can virtually see;
But you never can imagine, to a limited degree,
The way the daylight darkens and the zephyrs cease to zeph
As I open up the letter—that contains my double f!

STATISTICS



EDG. GUNZON HOURS 1944

STATISTICS.

"When taken, to be well shaken."

INSTRUCTING STAFF FOR THE YEAR 1899-1900.

SUBJECTS.	Professors.	Associate Professors.	Assistant Professors.	Instructors.	Assistants.	Total.	Lecturers.	Total.
ARCHITECTURE	2	1	2	1	2	8	8	16
BIOLOGY, ZOÖLOGY, ETC.	1	0	1	3	1	6	4	10
CHEMISTRY	2	1	2	13	8	26	8	34
CIVIL ENGINEERING	4	0	1	3	3	11	4	15
DRAWING AND DESCRIPTIVE GEOMETRY	0	1	0	5	1	7	0	7
ENGLISH, HISTORY AND POLITICAL SCIENCE	2	1	3	1	1	8	2	10
LANGUAGE	1	1	1	4	0	7	0	7
MATHEMATICS	4	1	3	3	0	11	0	11
MECHANIC ARTS	0	0	0	3	3	6	0	6
MECHANICAL ENGINEERING AND APPLIED MECHANICS	2	3	0	4	10	19	0	19
MILITARY TACTICS	0	0	1	0	0	1	0	1
MINERALOGY, GEOLOGY AND GEOGRAPHY	1	0	2	1	0	4	0	4
MINING ENGINEERING AND METALLURGY	2	0	1	0	2	5	2	7
NAVAL ARCHITECTURE	1	0	0	1	0	2	0	2
PHYSICS AND ELECTRICAL ENGINEERING	2	0	4	5	5	16	11	26
GYMNASTICS	0	0	0	1	0	1	0	1
Total	24	9	21	48	36	138	39	176

SUMMARY OF GRADUATES BY COURSES. 1868-1899.

YEAR.	Civil * Engineering.	Mechanical Engineering.	Mining Engineering.	Architecture.	Chemistry.	Electrical Engineering.	Natural History or Biology.	Physics.	General Course.	Chemical Engineering.	Sanitary Engineering.	Geology.	Naval Architecture.	Total.
	Course I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.	
1868	6	1	6	0	0	0	0	0	1	0	0	0	0	14
1869	2	2	0	0	1	0	0	0	0	0	0	0	0	5
1870	4	2	2	0	1	0	0	0	1	0	0	0	0	10
1871	8	2	5	0	2	0	0	0	0	0	0	0	0	17
1872	3	1	5	0	3	0	0	0	0	0	0	0	0	12
1873	12	2	3	1	7	0	0	0	1	0	0	0	0	26
1874	10	4	1	1	0	0	0	0	2	0	0	0	0	18
1875	10	7	6	1	1	0	0	1	2	0	0	0	0	28
1876	12	8	7	0	5	0	2	3	4	0	0	0	0	42*
1877	12	6	8	4	2	0	0	0	0	0	0	0	0	32
1878	8	2	2	3	3	0	0	0	1	0	0	0	0	19
1879	6	8	3	1	3	0	1	1	0	0	0	0	0	23
1880	3	0	3	0	1	0	0	0	1	0	0	0	0	8
1881	3	5	6	3	8	0	1	0	2	0	0	0	0	28
1882	2	5	5	3	6	0	1	1	1	0	0	0	0	24
1883	3	7	5	1	3	0	0	0	0	0	0	0	0	19
1884	5	6	13	0	12	0	0	0	0	0	0	0	0	36
1885	4	6	8	2	4	2	0	0	1	0	0	0	0	27
1886	9	23	7	1	7	10	1	0	1	0	0	0	0	59
1887	10	17	8	1	9	8	1	1	3	0	0	0	0	58
1888	11	25	4	5	10	17	3	11	1	0	0	0	0	77
1889	15	23	5	3	8	17	1	1	2	0	0	0	0	75
1890	25	27	3	5	13	18	3	2	6	0	0	0	0	102
1891	18	26	4	6	11	23	3	3	1	7	0	1	0	103
1892	22	26	4	13	7	36	6	1	7	4	6	1	0	133
1893	25	30	5	2	8	41	2	0	6	8	0	2	0	129
1894	21	31	4	14	11	33	1	3	5	12	3	0	0	138
1895	25	30	3	15	14	33	0	2	4	11	4	0	5	144†
1896	25	34	10	24	16	48	3	3	7	7	4	3	5	188†
1897	25	40	7	16	20	33	2	3	7	12	4	1	9	179
1898	32	41	7	29	23	33	3	4	6	9	3	0	7	200
1899	30	38	9	22	21	32	2	2	1	9	1	0	8	172
Total,	406	485	168	186	240	384	36	42	74	79	25	8	34	2,136
Deduct names counted twice 11														
Net total 2,136														

* One graduate of Course of Metallurgy in 1876.

† Deducting names counted twice.

DISTRIBUTION OF STUDENTS.

Denmark 1	Jamaica 1	Quebec 3
Dutch Guiana 1	Japan 2	Russia 1
England 1	Mexico 7	Turkey 3
France 2	New Brunswick 3	Germany 1
Total number of foreign countries represented		12
Total number of students from same		26

United States	1,150
Foreign countries	26
Total	1,176

UNITED STATES.

California 9	Maryland 8	Oregon 2
Colorado 7	Massachusetts 73 ¹	Pennsylvania 33
Connecticut 29	Michigan 10	Rhode Island 32
Delaware 4	Minnesota 10	South Carolina 1
Dist. of Columbia 7	Missouri 11	South Dakota 1
Florida 1	Montana 3	Tennessee 4
Georgia 3	Nebraska 3	Texas 2
Illinois 36	Nevada 1	Utah 6
Indiana 5	New Hampshire 29	Vermont 12
Iowa 6	New Jersey 12	Virginia 2
Kentucky 4	New York 6	Washington 4
Louisiana 1	North Carolina 2	West Virginia 1
Maine 25	Ohio 27	Wisconsin 7

Total number of States represented	39
Total number of students from same	1,150

STATISTICAL INFORMATION.

In order to obtain statistical information concerning the Class of Nineteen Hundred and One, the following set of questions was sent to each member of the Class; the answers to these questions resulting in the following information.

Age?

Average age, 21.1 yrs. Oldest . . . 28 yrs. Youngest . . . "sweet" 16
Two Course IX. men have forgotten their ages.

Weight?

Average weight, 147.2 lbs. Heaviest . . . 235 lbs. Lightest . . . 115 lbs.

One man confesses a difference of six pounds before and after eating.

$\int_x^{200} x dx$; 15 ergs; 1,044 grs. (N. B.—Scientific answers from scientific men.)

Height?

Average height, 5 ft. 8 7/8 in. Tallest . . . 6 ft. 5 1/2 in. Shortest . . . 4 ft. 6 in

Do You Use Tobacco?

Yes 65 No 79

The Co-eds don't smoke.

Total Expenses Sophomore Year?

127 students spent a total of \$76,665, an average of \$603 per student; 58 spent over the average; 68 under the average; 18 spent over \$1,000 during the year; several did not keep accounts.

Name of Most Popular Professor?

MERRILL, first.

CLIFFORD, second.

Somebody answers, "They all look alike to me."

Do You Study Up to the Requirements of the Catalogue?

Yes 70 No 75

A number do not know what the requirements are; and one man says that he does not have time to read the Catalogue.

Preparation?

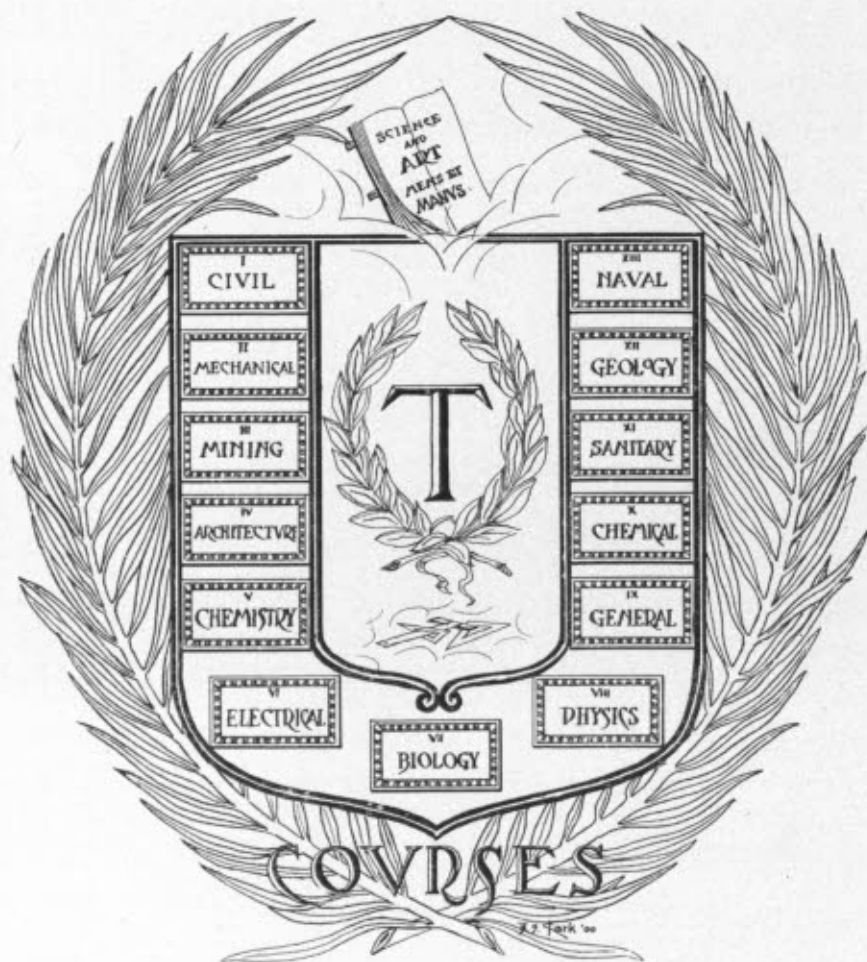
59 per cent prepared in high schools; 19 per cent in private schools; 12.5 by tutelage; and 9.5 per cent have had university courses before coming to the Institute. One man said that he had no preparation, and two were their own tutors.

COLLEGE STATISTICS.

NAME.	LOCATION.	FOUNDED.	PRESIDENT.	STUD'TS.	INSTR'S.	COLORS.	ANNUAL.
ALBION	Albion, Mich.	1861	Rev. John P. Ashley, Ph.D.	358	32	Pink and Green.	<i>Various.</i>
AMHERST	Amherst, Mass.	1821	Merrill Edwards Gates.	386	36	Purple and White.	<i>The Olio.</i>
ARMOUR INSTITUTE	Chicago, Ill.	1892	F. W. Gunsaulus, D.D.	1100	60	Yellow and Black.	<i>The Integral.</i>
ATLANTA UNIVERSITY	Atlanta, Ga.	1869	Rev. Horace Bunstead, D.D.	300	24	Cardinal Red and Steel Gray.	<i>The Mortarboard.</i>
BARNARD	New York, N. Y.	1889	Emily James Smith, A.B., Dean.	230	34	Blue and White.	<i>The Hub.</i>
BOSTON UNIVERSITY	Boston, Mass.	1869	William Fairfield Warren, L.L.D.	1327	130	Scarlet and White.	<i>The Bugle.</i>
BOWDOIN	Brunswick, Me.	1794	William De Wit Hyde, D.D.	360	35	White.	<i>Libri Brannas.</i>
BROWN UNIVERSITY	Providence, R. I.	1764	Rev. W. H. P. Faunce, D.D.	860	80	Brown and White.	<i>The Lantern.</i>
BYRN MAWR	Bryn Mawr, Pa.	1880	M. Carey Thomas, Ph.D., L.L.D.	312	41	Yellow and White.	<i>The Buchtel.</i>
BUCHTEL	Akron, Ohio.	1871	Rev. Ira A. Priest.	230	19	Navy Blue and Old Gold.	<i>Colby Oracle.</i>
COLBY UNIVERSITY	Waterville, Me.	1820	Rev. Nathaniel Butler, D.D.	211	19	Gray.	<i>Salmagundi.</i>
COLGATE UNIVERSITY	Hamilton, N. Y.	1820	*William Henry Crawshaw, A.M.	146	19	Orange and Maroon.	<i>The Colligian.</i>
COLLEGE OF WILLIAM AND MARY	Williamsburg, Va.	1603	Lyons G. Tyler, M.A., L.L.D.	160	13	Orange and White.	<i>The Columbian.</i>
COLORADO COLLEGE	Colorado Springs, Colo.	1874	William F. Slocum, Jr., L.L.D.	367	34	Yellow and Black.	<i>The Cornelian.</i>
COLUMBIA UNIVERSITY	New York, N. Y.	1754	Seth Lowe, L.L.D.	3502	362	Light Blue and White.	<i>Agis.</i>
CORNELL UNIVERSITY	Ithaca, N. Y.	1865	Jacob Gould Schurman, D.Sc., L.L.D.	2038	281	Cornelian and White.	<i>Palladium.</i>
DARTMOUTH	Hanover, N. H.	1769	William Jewett Tucker, D.D., L.L.D.	694	52	Dark Green.	<i>Microcosm.</i>
DE PAUW UNIVERSITY	Greencastle, Ind.	1837	Rev. Hillary A. Gobin, D.D.	756	35	Old Gold.	<i>Drury Mirror.</i>
DICKINSON	Carlisle, Pa.	1783	George Edward Reed, S.T.D., L.L.D.	425	25	Red and White.	<i>Origlamm.</i>
DRURY	Springfield, Mo.	1873	Homer T. Fuller, Ph.D.	299	18	Scarlet and Gray.	<i>Hamillouin.</i>
FISK UNIVERSITY	Nashville, Tenn.	1866	Rev. Erasmus Milo Cravath, D.D.	458	30	Blue and Gold.	<i>Eco of the Seneca.</i>
FRANKLIN AND MARSHALL	Laurel, Pa.	1822	John S. Stubb, Ph.D., D.D.	178	13	White and Blue.	<i>The Cyclone.</i>
GIRARD	Philadelphia, Pa.	1832	A. H. Felteroff, Ph.D., L.L.D.	1510	67	Steel and Garnet.	<i>The Hallabon.</i>
HAMILTON	Clinton, N. Y.	1812	M. W. Stryker.	158	20	Blue and Buff.	<i>The Melange.</i>
HARVARD UNIVERSITY	Cambridge, Mass.	1636	Charles William Eliot, L.L.D.	4947	414	Crimson.	<i>Epitome.</i>
HOBART	Geneva, N. Y.	1825	Rev. Robert Ellis Jones, A.B.	85	19	Orange and Royal Purple.	<i>Stanford Quad.</i>
IOWA	Grinnell, Iowa.	1848	Rev. George A. Gates, D.D.	500	30	Scarlet and Black.	<i>The Prism.</i>
JOHNS HOPKINS UNIVERSITY	Baltimore, Md.	1876	Daniel C. Gilman, L.L.D.	570	109	Black and Blue.	<i>Marietta Col. Olio.</i>
LAFAYETTE	Easton, Pa.	1826	Ethelbert D. Warfield, L.L.D.	316	30	Maroon and White.	<i>Kaleidoscope.</i>
LEHIGH UNIVERSITY	South Bethlehem, Pa.	1866	Thomas Messinger Brown, L.L.D.	363	40	Brown and White.	<i>Llamarada.</i>
LELAND STANFORD, JR., UNIVERSITY	Stanford University, Cal.	1891	David Starr Jordan.	1225	80	Cardinal Red.	<i>The Carla.</i>
MAINE STATE COLLEGE	Orono, Me.	1865	A. W. Harris, Sc.D.	314	34	Light Blue.	<i>The Violet.</i>
MARIETTA	Marietta, Ohio.	1835	J. H. Chamberlin, Ph.D., Dean.	262	27	Blue and White.	<i>The Syllabus.</i>
MASS. INSTITUTE OF TECHNOLOGY	Boston, Mass.	1865	James M. Crafts, S.B., Ph.D.	1176	165	Cardinal Red and Silver Gray.	<i>Hi-O-Hi.</i>
MIDDLEBURY	Middlebury, Vt.	1800	Ezra Brainerd, L.L.D.	108	9	Navy Blue and Pearl White.	
MT. HOLYOKE	South Hadley, Mass.	1837	Elizabeth Storrs Mead, A.M.	441	49	Light Blue.	
MULLENBERG	Allentown, Pa.	1897	Theodore L. Seip, D.D.	150	12	Steel and Garnet.	
NEW YORK UNIVERSITY	New York, N. Y.	1831	Henry M. MacCracken, D.D., L.L.D.	1717	158	Violet.	
NIAGARA UNIVERSITY	Niagara University, N.Y.	1856	Rev. P. MacHale, C.M.	260	50	Purple and White.	
NORTHWESTERN UNIVERSITY	Evanston, Ill.	1854	Henry Wade Rogers, L.L.D.	2202	246	Royal Purple.	
OBERLIN	Oberlin, Ohio.	1833	James H. Fairchild.	1283	80	Crimson and Gold.	

COLLEGE STATISTICS—CONTINUED.

NAME.	LOCATION.	FOUNDED.	PRESIDENT.	STUD'TS.	INST'T'S.	COLORS.	ANNUAL.
OHIO STATE UNIVERSITY	Columbus, Ohio.	1870	James H. Canfield.	1149	93	Scarlet and Gray.	<i>The Lantern.</i>
OHIO WESLEYAN UNIVERSITY	Delaware, Ohio.	1844	Rev. J. W. Bashford, D.D.	1176	56	Black and Red.	<i>Bijon.</i>
PACIFIC UNIVERSITY	Forest Grove, Ore.	1854	Rev. Thomas McClelland, D.D.	160	11	Crimson and Black.	<i>The Spectrum.</i>
PENNSYLVANIA	Gettysburg, Pa.	1832	Henry W. McKnight, D.D., LL.D.	471	16	Orange and Blue.	
POLYTECHNIC INSTITUTE OF BROOKLYN	Brooklyn, N. Y.	1855	David H. Cochran, LL.D.	79	14	Blue and Gray.	
PRATT INSTITUTE	Brooklyn, N. Y.	1887	Charles M. Pratt.	3161	132	Cadmium Yellow.	<i>Erica-Brac.</i>
PRINCETON UNIVERSITY	Princeton, N. J.	1746	Francis Landey Patton, D.D., LL.D.	1099	85	Orange and Black.	<i>The Debris.</i>
PRUDUE UNIVERSITY	Lafayette, Ind.	1869	James Henry Smart, LL.D.	667	64	Black and Old Gold.	
RADCLIFFE	Cambridge, Mass.	1879	Elizabeth C. Agassiz.	410	98		
ROSE POLYTECHNIC INSTITUTE	Terre Haute, Ind.	1874	C. Leo Mess.	98	24	Old Rose and White.	<i>The Scarlet Letter.</i>
RUTGERS	New Brunswick, N. J.	1766	Austin Scott, Ph.D., LL.D.	152	28	Scarlet.	
SMITH	North Hampton, Mass.	1871	L. Clark Seelye, D.D., LL.D.	1104	64	White.	<i>The Phoenix.</i>
SWARTHMORE	Swarthmore, Pa.	1864	Charles De Garmo, Ph.D.	162	24	Garnet.	<i>The Onondagan.</i>
SYRACUSE UNIVERSITY	Syracuse, N. Y.	1871	Rev. James R. Dwy, D.D., LL.D.	1135	113	Orange.	<i>The Trinity Ivy.</i>
TRINITY	Hartford, Conn.	1823	George Williamson Smith, D.D., LL.D.	138	21	Blue and Old Gold.	<i>Brown and Blue.</i>
TUFTS	Tufts College, Mass.	1823	Elmer Hewitt Capen, D.D., LL.D.	586	88	Brown and Blue.	<i>Jambalaya.</i>
TULANE UNIVERSITY	New Orleans, La.	1847	William Preston Johnston, LL.D.	931	73	Olive and Blue.	<i>The Gurnet.</i>
UNION	Schenectady, N. Y.	1795	Andrew V. V. Raymond, D.D., LL.D.	210	25	Garnet.	<i>Howitzer.</i>
U. S. MILITARY ACADEMY	West Point, N. Y.	1802	O. H. Ernst, Col. U. S. A., Supt.	335	59	Black and Gray.	<i>Annual Register.</i>
U. S. NAVAL ACADEMY	Annapolis, Md.	1845	Philip H. Cooper, Capt. U. S. N.	459	66	Old Gold and Navy Blue.	<i>Blue and Gold.</i>
UNIVERSITY OF CALIFORNIA	Berkeley, Cal.	1868	Martin Kellogg, A.M., LL.D.	2300	250	Blue and Gold.	<i>Cop and Gown.</i>
UNIVERSITY OF CHICAGO	Chicago, Ill.	1890	William Rainey Harper, Ph.D., D.D., LL.D.	2502	209	Maroon.	<i>Columbine.</i>
UNIVERSITY OF COLORADO	Boulder, Colo.	1877	James H. Baker, M.A., LL.D.	610	72	Silver and Gold.	<i>Kynerisob.</i>
UNIVERSITY OF DENVER	Denver, Colo.	1890	Henry A. Buchter, D.D., Ph.D.	509	100	Crimson and Gold.	<i>Michiganensis.</i>
UNIVERSITY OF MICHIGAN	Ann Arbor, Mich.	1817	James B. Angell, LL.D.	3192	205	Malze and Blue.	<i>The Ohio.</i>
UNIVERSITY OF ILLINOIS	Urbana, Ill.	1867	Andrew S. Draper, LL.D.	1824	210	Blue and Orange.	<i>Gopher.</i>
UNIVERSITY OF MINNESOTA	Minneapolis, Minn.	1868	Cyrus Northrop.	2647	208	Maroon and Old Gold.	<i>Ole Miss.</i>
UNIVERSITY OF MISSISSIPPI	University, Miss.	1848	Robert B. Fulton.	274	16	Royal Purple.	<i>The Sombiero.</i>
UNIVERSITY OF NEBRASKA	Lincoln, Neb.	1890	George Edwin MacLean, Ph.D., LL.D.	1915	184	Scarlet and Cream.	<i>The Record.</i>
UNIVERSITY OF PENNSYLVANIA	Philadelphia, Pa.	1740	Charles C. Harrison, LL.D., Provost.	2790	258	Red and Blue.	<i>Cop and Gown.</i>
UNIVERSITY OF THE SOUTH	Savannah, Tenn.	1905	B. Lawton Wiggins.	327	36	Purple.	<i>Cactus.</i>
UNIVERSITY OF TEXAS	Austin, Tex.	1883	George T. Winston, LL.D.	751	59	Orange and White.	<i>Corks and Carls.</i>
UNIVERSITY OF VIRGINIA	Charlottesville, Va.	1825	P. B. Barringer, M.D.	489	55	Orange and Blue.	<i>Booger.</i>
UNIVERSITY OF WISCONSIN	Madison, Wis.	1848	Charles Kendall Adams, LL.D.	1820	118	Cardinal.	<i>Vassarion.</i>
VASSAR	Poughkeepsie, N. Y.	1861	James M. Taylor, D.D., LL.D.	619	61	Rose and Gray.	<i>The Calyx.</i>
WASHINGTON AND LEE UNIVERSITY	Lexington, Va.	1749	William L. Wilson, LL.D.	135	18	White and Blue.	<i>Legenda.</i>
WELLESLEY	Wellesley, Mass.	1875	Caroline Hazard.	721	90	Deep Blue.	<i>Chica-go-Runk.</i>
WESLEYAN UNIVERSITY	Middletown, Conn.	1831	Rev. Bradford P. Raymond, D.D., LL.D.	331	35	Old Cardinal and Black.	<i>The Guldmenion.</i>
WESTERN MARYLAND	Westminster, Md.	1869	Thomas Hamilton Lewis.			Cardinal and Olive Green.	<i>The Alernath.</i>
WILLIAMS	Williamstown, Mass.	1793	Franklin Carter, Ph.D., LL.D.	385	30	Royal Purple.	<i>The Index.</i>
WORCESTER POLYTECHNIC INSTITUTE	Worcester, Mass.	1885	Thomas Corwin Mendenhall, Ph.D., LL.D.	236	30	Crimson and Steel Gray.	<i>Yale Banner.</i>
WOOSTER UNIVERSITY	Wooster, Ohio.	1866	Rev. S. F. Scovel.	445	20	Black and Old Gold.	
YALE UNIVERSITY	New Haven, Conn.	1701	Arthur T. Hadley.	2517	260	Blue.	





"What's in a name?"

NAME AND FRATERNITY.	COURSE, CLASS.	HOME ADDRESS.
ABBOTT, LEWES BENJAMIN, S.B., '99	IV. '00	Danvers, Mass.
ABEEL, DAVID GUSTAVUS	I. '00	Catskill, N. Y.
ADAMS, CHARLES WARD, X. Φ. . . .	II. S.	60 State St., Montpelier, Vt.
ADAMS, GEORGE ORLANDO	V. '00	North Andover, Mass.
ADAMS, IRVING ELLWOOD	V. S.	64 Aldie St., Allston, Mass.
ADAMS, ISAAC RAYNE	IV. '02	1776 Mass. Av., N. C'mb'dge, Mass.
ADAMS, LOUIS WINFIELD	II. '03	1322 Vermont Ave., Wash., D. C.
ADAMS, WALTER HOLBROOK	II. '03	22 Dix St., Winchester, Mass.
AGUILAR, JOSÉ HILARIO	II. S.	Hermosillo Sonora, Mexico.
ALBIN, HENRY ALLISTON	VI. S.	Concord, N. H.
ALBISTON, CLAYTON	II. '01	100 Dillman St., N. Bedford, Mass.
ALDRICH, CHESTER STANLEY	II. '03	140 Oak St., Indian Orchard, Mass.
ALDRICH, WILLIAM TRUMAN	IV. S.	110 Benevolent St., Prov'ce, R. I.
ALLBRIGHT, EDWIN FRANCIS	I. '03	24 Virginia St., Dor., Mass.
ALLBRIGHT, HENRY GLOVER, JR. . . .	VI. S.	24 Virginia St., Dor., Mass.
ALLEN, ARTHUR BENJAMIN	II. '03	7 Amboy St., Allston, Mass.
ALLEN, CARLTON BRIGHAM	XIII. '02	19 Morton St., Somerville, Mass.
ALLEN, CLARENCE MASON	II. '02	Barre, Mass.
ALLEN, ELBERT GROVER	II. '00	124 Highland St., Brockton, Mass.
ALLEN, FRANK DAVID, JR. . . .	I. '02	3 Warren St., Gloucester, Mass.
ALLEN, GEORGE WINTHROP	II. '01	East Bridgewater, Mass.
ALLEN, HARRY VASS, B.S., Σ. A. E. . . .	VI. S.	Raleigh, N. C.
ALLYN, ALFRED WARREN, Φ. Γ. Δ. . . .	IV. '02	16 Allyn Place, Lawrence, Mass.
AMES, HENRY ALLISON	II. '02	119 Hall St., Lowell, Mass.
ANDERSON, AUGUST EDWARD T. . . .	I. '03	Metropolit'n Av., Rosl'nd'le, Mass.
ANDERSON, CHARLES LOUIS BATES	I. S.	43 Fair St., Newburyport, Mass.
ANDREW, ROBERT	II. '01	Linwood, Cincinnati, Ohio.
ANNETT, CECIL BANCROFT	II. '02	East Jaffrey, N. H.
APPLETON, ALLEN LANSING, X. Φ. . . .	XIII. '02	313 Maple St., Springfield, Mass.
APPLETON, WILLIAM CORNELL	IV. '01	Auburn, R. I.
ARNOLD, ALBERT HEBER BAILEY	III. S.	31 Waumbeck St., Rox., Mass.
ARNOLD, PERRIE MORGAN	IV. '03	150 Vine St., Hartford, Conn.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
ARSEM, WILLIAM COLLINS . . .	V.	'01	15 Clinton St., Malden, Mass.
ASHLEY, HARRISON EVERETT . . .	X.	'00	947 Acushnet Ave., New Bedford, Mass.
ATWOOD, GEORGE DESLER, Σ. X. . .	II.	S.	103 St. Felix St., Brooklyn, N. Y.
ATWOOD ICHABOD FRANCIS . . .	II.	'03	Rock Plymouth Co., Mass.
AUER, CHARLES ISRAEL . . .	III.	'01	818 Richmond St., Cincinnati, O.
AVERY, CHARLES HENRY . . .	II.	'03	346 Crafts St., Newtonville, Mass.
AVERY, FRANCIS DEANE . . .	I.	'02	Buckland, Mass.
AVERY, WINTHROP CHANDLER . . .	IV.	'03	South Lancaster, Mass.
AYERS, FREDERIC CHESLEY . . .	II.	S.	11 Forest St., Roxbury, Mass.
AYLSWORTH, JOSEPH WHEELER . . .	II.	'03	5 Everett St., Newport, R. I.
BABCOCK, FRANK GIBERT . . .	III.	'03	Tolland, Conn.
BABSON, ROGER DERBY . . .	III.	'03	3 Derby St., Gloucester, Mass.
BACON, CHARLES JAMES . . .	II.	S.	Winthrop, Mass.
BACON, HERBERT MORTON . . .	VI.	S.	105 Wethersfield Av., Hartford, Ct.
BADLAM, STEPHEN . . .	III.	'00	530 Columbia Road, Dor., Mass.
BAILEY, ERIC WALDORF . . .	III.	S.	83 Inman St., Camb'g'port, Mass.
BAILEY, ROBERT WILLIAM . . .	XIII.	'01	30 West 25th St., New York City.
BAKER, ANDREW PERCY . . .	I.	'03	Kingston, Mass.
BAKER, EDWARD SHERMAN . . .	I.	S.	26 School St., Dedham, Mass.
BAKER, JAMES MCFARLAN . . .	IV.	'02	202 Livingston St., Br'kl'n, N. Y.
BAKER, PHILIP STONE, Δ. T. Δ. . .	II.	S.	1882 Wash. St., San Francisco, Cal.
BAKER, SHELDON KING . . .	I.	'03	1728 Columbia R'd, Wash., D. C.
BALCOM, REUBEN WILFRED . . .	V.	'00	Framingham, Mass.
BALDWIN, CHARLES EDWARD, A.B. . .	V.	'00	197 Auburn St., Cambridge, Mass.
BALDWIN, ROBERT SOUTHWICK, Φ. B. E. . .	V.	S.	39 Columbia Road, Dor., Mass.
BALLARD, JOSEPH WILLIAM . . .	II.	'02	165 Main St., Greenfield, Mass.
BALLOU, ROLAND HUNNEWELL . . .	VI.	'03	16 Harris Ave., Woonsocket, R. I.
BARKER, JAMES EDMOND . . .	VI.	'00	409 N. Los Roblas Ave., Pasadena, Cal.
BARKER, WILBUR STUART, Φ. Γ. Δ. . .	III.	'03	37 Evergreen St., Harrisburg, Pa.
BARNABY, GEORGE ALBERT . . .	III.	'03	25 Oak St., Peabody, Mass.
BARNES, WILLARD CARLTON . . .	II.	'03	South Weymouth, Mass.
BARNEY, MORGAN . . .	XIII.	S.	31 4th St., New Bedford, Mass.
BARROWS, ALLAN HANSCOM . . .	X.	'03	Reading, Mass.
BARRY, CHARLES GARDNER . . .	I.	S.	98 Hillside Ave., Melrose, Mass.
BARRY, HENRY BAILEY . . .	II.	'02	276 Wash'n Ave., Chelsea, Mass.
BARTER, HENRY ALEXANDER . . .	V.	'03	92 Park St., Portland, Me.
BARTLETT, HOMER EUGENE . . .	IV.	'02	12 Wesleyan St., N. Adams, Mass.
BARTON, CHARLES AUGUST, JR. . .	VI.	'00	2753 N. Paulina St., Ravensw'd, Ill.
BASS, FREDERIC HERBERT . . .	XI.	'01	81 Maple St., Hyde Park, Mass.
BASSETT, WILLIAM MANNING . . .	I.	'02	65 St. Botolph St., Boston, Mass.
BATCHELDER, JAMES HERVEY . . .	III.	'00	44 Monument Sq., Charlestown.
BATEMAN, GEORGE WILLIAM . . .	II.	'03	27 Cushing St., Camb'dge, Mass.
BATES, CHARLES LYNN . . .	I.	'03	Sterling, Ill.
BATES, JOHN ROSS . . .	I.	S.	Hyde Park, Mass.
BATES, SARAH LOVELAND . . .	V.	'02	Belmont St., Newton, Mass.
BATTEY, LEWIS BIRCH . . .	V.	S.	319 Grove St., Fall River, Mass.
BAXTER, FRANCIS KERNAN, JR., Δ. K. E. . .	III.	'01	62 Lansing St., Utica, N. Y.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
BAY, WILLIAM JOHNSTON	XIII.	'03	140 6th St., Ironton, Ohio.
BEALE, FORREST WILBUR	I.	'02	23 Federal St., Newb'ypport, Mass.
BECKLER, EDITH ARTHUR	V.	'02	590 Seventh St., So. Boston, Mass.
BECKWITH, EDWARD PIERREPONT, Δ. Ψ.	V.	'01	Milton, Mass.
BEEKMAN, JOHN VAN DERVER, JR. . .	IV.	S.	216 West 8th St., Plainfield, N. J.
BELCHER, DONALD MINOR, Σ. A. E. . .	II.	'02	14 Prospect St., Winchester, Mass.
BELCHER, EDWARD BROWNE	II.	'01	148 Hawthorne St., Malden, Mass.
BENDER, LOWRY DRAVO WILKINSON, . .	III.	S.	436 Atlantic Ave., Pittsburg, Pa.
BENNETT, ARTHUR FRANCIS	X.	'03	Wayland, Mass.
BENSON, HARRY FREDERIC	II.	'01	34 Harvard St., Whitman, Mass.
BERRY, ARTHUR HENRY, A.B. . . .	V.	S.	Newburyport, Mass.
BEST, EDNA MAY WILLISTON	V.	'02	14 Danube Street, Roxbury, Mass.
BEVERSTOCK, CHARLES WHITNEY . . .	I.	'03	37 Prospect St., Keene, N. H.
BICKFORD, WARREN IRA, Δ. T. . . .	VI.	'01	2511 K St., N. W., Wash'n, D. C.
BIGELOW, LYMAN HERBERT	I.	'01	376 Main St., Charlestown, Mass.
BILYEA, CARL THOMPSON, X. Φ. . . .	IV.	S.	28 Stirling St., Watertown, N. Y.
BLAIR, ROBERT SHERMAN	VI.	'00	Waterville Road, Waterbury, Ct.
BLAISDELL, ROBERT VAN BERGEN . . .	IV.	S.	2918 Morgan St., St. Louis, Mo.
BLANCHARD, HAROLD, A.B.	XIII.	'02	8 Gloucester St., Boston, Mass.
BLANCHARD, HUSE TEMPLETON	IV.	S.	76 Washington St., Concord, N. H.
BLATT, HERMAN OTTO	III.	'03	Lead City, So. Dak.
BLAUVELT, WILLIAM GROVE, A.B. . .	VI.	S.	Virginia City, Nev.
BLODGETT, GEORGE RAYMOND	VI.	'02	370 Austin St., W. Newton, Mass.
BLOOD, ALICE FRANCIS	V.	'03	37 Lake Ave., Lynn, Mass.
BOARDMAN, CHARLES	XIII.	S.	388 Marlboro St., Boston, Mass.
BOARDMAN, CHARLES HENRY, JR. . .	IV.	'02	53 Breed St., Lynn, Mass.
BOLSTER, ROY HALE	VI.	S.	10 Cobden St., Roxbury, Mass.
BOND, FREDERIC HENRY, JR. . . .	IV.	'01	31 Longwood Ave., Brkl'ne, Mass.
BONNEMONT, CHARLES JUDSON	I.	'02	Walnut Hill, Dedham, Mass.
BOOTH, ARTHUR ROBERT GREGORY . .	V.	'01	353 Walker St., Lowell, Mass.
BORDEN, NORMAN EASTON	II.	'02	19 Chestnut St., Salem, Mass.
BOSWORTH, HAROLD OTIS, Σ. A. E. . .	X.	'02	1331 Gilpin St., Denver, Col.
BOWDITCH, INGERSOLL, A.B.	I.	'00	Jamaica Plain, Mass.
BOYD, FREDERIC ROY COURTENAY . .	VI.	'01	40 Annawan St., Hartford, Conn.
BOYLE, JOHN, JR.	III.	'01	259 Merrimac St., Newby'pt, Mass.
BOYNTON, PERKINS	II.	'01	Newtonville, Mass.
BRADLEY, FRANCIS	II.	'02	35 Longwood Ave., Brkl'ne, Mass.
BRADLEY, FRANKLIN SAWYER, Δ. T. . .	III.	'03	Dover, N. H.
BRAINERD, ERASTUS LE ROY	I.	'02	455 Hansberry St., Germant'n, Pa.
BREED, HOWARD, X. Φ.	IX.	'03	408 Pike St., Cincinnati, Ohio.
BREWER, CHARLES DUNCAN	III.	'02	427 West 3d St., Duluth, Minn.
BRICKLEY, WILLIAM JOSEPH	II.	S.	68 Tremont St., Charlest'n, Mass.
BRIDGES, JOHN SAMUEL, JR.	XIII.	'03	15 So. Charles St., Baltimore, Md.
BRIGGS, ALBERT BILLINGS	I.	'00	57 Central Ave., Wollaston, Mass.
BRIGGS, CHARLES CALVIN, JR., X. Φ.	XIII.	'00	153 Craig St., Pittsburg, Pa.
BRIGGS, JOHN PORTER	I.	'01	Plymouth, Mass.
BRIGHAM, EDMOND FRANCIS	X.	'00	Newton Highlands, Mass.
BRIGHAM, THEODORE WILLIAM, Φ. B. E.,	XIII.	S.	Greenport, Suffolk Co., N. Y.
BRIGHT, GEORGE, JR., X. Φ.	III.	'02	302 Mahantongo St., Pottsville, Pa.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
BROCK, HENRY MATTHAIS, A.B.	VIII.	S.	15 Woodville St., Boston, Mass.
BRODIE, MATTHEW	II.	S.	260 Farington Av., St. Paul, Minn.
BRONSON, JOHN STANARD, A. K. E.	IX.	S.	1503 McGavock St., N'shv'e, Tenn.
BROOKS, MILES ELIJAH	I.	'00	19 Milford St., Boston, Mass.
BROOKS, PAUL RAYMOND	II.	'00	4912 Woodlawn Ave., Chicago, Ill.
BROOME, GEORGE WILEY, JR.	III.	'03	Union Trust Bldg., St. Louis, Mo.
BROWN, CHARLES HOYT	X.	'00	Wellesville, N. Y.
BROWN, CLARENCE CLAPP	VI.	'00	Reading, Mass.
BROWN, JAMES HUGH	VI.	S.	6 Staniford St., Boston, Mass.
BROWN, JOHN	I.	S.	40 Bradf'd Ave., Fall River, Mass.
BROWN, JOHN WESLEY	V.	'00	13 Forrester St., N'wburyp't, Mass.
BROWN, MOSES, JR.	III.	'03	9 Orange St., Newburyport, Mass.
BROWN, ROBERT VAUGHAN	X.	'02	94 Bird St., Roxbury, Mass.
BROWN, SENECA PORTER	II.	'03	7 Cushman St., Plymouth, Mass.
BROWN, STEPHEN PEARSON, S. X.	II.	'00	Dover, Me.
BROWN, WILLIAM NATHANIEL	V.	'02	49 Pleasant St., Gloucester, Mass.
BROWNELL, JOHN RANDOLPH	I.	S.	Geneva, Ill.
BRUSH, MATTHEW CHAUNCEY, A. K. E.	II.	'01	432 Superior St., Duluth, Minn.
BRYAN, CLARK ALBERT	I.	'03	62 Temple St., Springfield, Mass.
BUCKLIN, MILTON POLLARD	VI.	S.	40 Princeton Ave., Prov., R. I.
BUFFUM, FREDERICK DELANO	II.	'00	Winchester, N. H.
BUGBEE, EDWARD EVERETT	III.	'00	31 Allerton St., Brookline, Mass.
BUHLER, HENRY WALDECK	III.	'03	11 Irvington St., Boston, Mass.
BURDICK, EDWIN PARKS, S. A. E.	I.	S.	2 Ellsworth Pk., Cambridge, Mass.
BURDICK, HERBERT CLEMENS	VI.	'02	3 Ellsworth Pk., Cambridge, Mass.
BURNHAM, ALFRED WORCESTER	X.	'03	249 Bacon St., Waltham, Mass.
BURNHAM, ROY GIBSON	II.	'00	Essex, Essex Co., Mass.
BURNHAM, WILLIAM WINSLOW	XI.	'03	297 Main St., Biddeford, Me.
BURNS, FINDLEY, A. Ψ.	XIII.	'03	1426 Park Ave., Baltimore, Md.
BURR, CHARLES HENRY	III.	'02	25 Sewall St., W. Newton, Mass.
BURR, ROGER AMES	IX.	'03	Chestnut Hill, Mass.
BURROUGHS, KARL	X.	'00	11 Landers St., Somerville, Mass.
BUTLER, ARTHUR FRANK	VI.	S.	130½ Colburn St., Lowell, Mass.
BUTLER, LAWRENCE SMITH, A.B.	IV.	S.	22 Park Ave., New York City.
BUTTERS, CHARLES MILTON	I.	S.	19 Church St., Somerville, Mass.
BUYS, ARTHUR FRANCIS, Φ. Γ. Δ.	IV.	S.	108 Fort Greene Pl., Brooklyn, N. Y.
CADE, CHARLES WALKER	X.	'01	14 Clinton St., Cambridge, Mass.
CADE, MARION LOUISE	V.	'00	14 Clinton St., Cambridge, Mass.
CADY, FRANCIS ELMORE	VI.	S.	910 Sherwin Ave., Chicago, Ill.
CADY, FRANK LIPITT	VII.	S.	78 Central St., Providence, R. I.
CALLEY, WALTER ENGLAND	II.	'03	112 Upland Rd., Cambridge, Mass.
CALMAN, JOHN WILLIAM JOSEPH	V.	'03	16 E. Canton St., Boston, Mass.
CAMP, ROLAND HEATON	VI.	'03	Pine St., Waterbury, Conn.
CAMPAU, ANTOINE BLACKWELL	IV.	'01	407 Madison Av., G. Rapids, Mich
CAMPELL, JOHN	III.	'00	Lincoln Ave., Pittsburg, Pa.
CANBY, HARRY BEAVER, S. X.	II.	S.	51 Belmont Ave., Dayton, Ohio.
CAPELLE, GEORGE CURTIS	XIII.	'03	138 Thorndike St., E. Camb., Mass.
CAPEN, BERNARD WINSLOW	VI.	'02	Box 404, Stoughton, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
CARLISLE, RALPH EDWARD	X.	'03	Wakefield, Mass.
CARMICHAEL, GEORGE PATRICK, A.B.	IV.	'03	122 Lawrence St., Lawrence, Mass.
CARR, JAMES HENRY	II.	'01	7 Pearl St., Salem, Mass.
CARTER, GEORGE WILLIAM	VI.	'01	Chicopee Centre, Mass.
CASANI, ALBERT AENEAS	I.	'01	7 Woodville St., Everett, Mass.
CASS, HERMAN JACOB	II.	'03	Reservoir Pl., Lawrence, Mass.
CATES, LOUIS SHATTUCK	III.	'02	Hammond St., N'wt'n Cen., Mass.
CATLIN, JOSEPH PRIESTLEY	VI.	'01	Gouverneur, N. Y.
CAVANAUGH, ARTHUR JOSEPH . . .	XIII.	S.	Braintree, Mass.
CAYVAN, LLEWELLYN LEOPOLD . .	V.	'00	660 Sixth St., So. Boston, Mass.
CHAFFEE, WALTER CRANE, Δ. T. .	IV.	'00	85 Edmund Pl., Detroit, Mich.
CHALIFOUX, PAUL ERNEST, Φ. B. E.	III.	S.	377 Wilder St., Lowell, Mass.
CHALMERS, HARRY BISHOP	X.	S.	332 East 88th St., New York City.
CHAMBERLIN, NOEL	IV.	'03	Parker Hill, Roxbury, Mass.
CHAMBERS, HENRY WICK, B.A. . .	I.	S.	977 Prospect St., Cleveland, Ohio.
CHANDLER, HOWARD TRUEMAN . .	II.	'01	32 Oakridge St., Mattapan, Mass.
CHANDLER, LEONARD DEXTER . . .	II.	'01	45 Jaques St., Somerville, Mass.
CHAPMAN, EBEN LORD	I.	'00	Franklin Falls, N. H.
CHAPMAN, HARLEN MONROE	V.	'02	Turner's Falls, Mass.
CHARLES, WALTER NATHAN	I.	'00	33 Forest St., Roxbury, Mass.
CHASE, AURIN MOODY, B.S. . . .	VI.	S.	Comstock Ave., Syracuse, N. Y.
CHASE, CHARLES EDWARD	I.	'03	69 Pleasant St., Dorchester, Mass.
CHASE, FRANK DAVID	I.	'00	54 St. Stephen St., Boston, Mass.
CHENEY, JOHN TYRRELL, Φ. B. E.	II.	S.	Kennelworth, Ill.
CHILDS, ARTHUR RAMSEY	VI.	S.	Lee, Mass.
CHUBB, CHESTER NILES	I.	'01	109 Berkeley St., Lawrence, Mass.
CHURCH, ALBERT THOMAS	III.	S.	1102 Tenth St., Oakland, Cal.
CHURCH, EDWIN FAYETTE, JR. . .	II.	'01	20 Holburn St., Roxbury, Mass.
CHURCHMAN, ALBERT LAWRENCE . .	II.	'00	1311 Rodney St., Wilmington, Del.
CLAFLIN, FRED WINSLOW	I.	'01	98 Main St., Hopkinton, Mass.
CLAPP, ARTHUR CHANNING	II.	S.	179 Boston St., So. Boston, Mass.
CLAPP, FREDERICK GARDNER . . .	XII.	'01	169 Boston St., So. Boston, Mass.
CLAPP, GEORGE HUNTINGTON . . .	I.	'03	3 Gardner Pl., Leominster, Mass.
CLARK, BURTON STEDMAN, Φ. Γ. Δ.	IV.	S.	10 Oxford St., Worcester, Mass.
CLARK, GEORGE ADAMS	I.	'01	72 Marginal St., E. Boston, Mass.
CLARK, GEORGE HOWARD	VI.	'03	186 Broadway, Everett, Mass.
CLARK, MYRON HENRY	V.	'03	Bedford, Mass.
CLARK, REUBEN BACON	XIII.	S.	1501 Mass. Ave., Wash'ton, D. C.
CLARKE, WILLIAM CASE, JR., B.S.	IX.	S.	Wakefield, R. I.
CLARY, ROBERT HODGEN, Σ. X. . .	III.	'00	1410 Belmont Ave., Seattle, Wash.
CLAUSEN, RUDOLPH JULIUS	IV.	'00	624 W. 6th St., Davenport, Iowa.
CLEAVES, DANIEL LUNT, B.S., Δ. K. E.	V.	S.	1 Shepley St., Portland, Me.
CLEVELAND, ERNEST ELGIN	VI.	'01	121 Highl'd Ave., S'merv'le, Mass.
CLOW, PERCIVAL CHARLES	IV.	'00	15 Myrtle St., Orange, Mass.
COBURN, CHARLES BETRAND	XIII.	S.	23 Oread Place, Worcester, Mass.
COBURN, FRED WARD	X.	'01	277 E. Merrimac St., Low'l, Mass.
COBURN, LAWRENCE GARDINER . . .	VI.	'02	158 Wash'ton St., Malden, Mass.
COLBY, FRANK ARNOLD	IV.	'01	Cambridge, Mass.
COLE, CHARLES STINCHFIELD . . .	X.	'03	44 Campan Bldg., Detroit, Mich.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
COLE, JAMES THOMAS, S. X.	II.	'03	60 Francesco Ave., West Somerville, Mass.
COLGAN, JAMES ARTHUR HERBERT	VI.	'02	Springfield, King's Co., N. B.
COLLIER, ARTHUR LUKE, F. I. Δ	XIII.	'02	91 Congress Ave., Chelsea, Mass.
COLLIER, WILLIAM RAWSON, S. X.	VI.	'00	296 Rawson St., Atlanta, Ga.
COMER, ERNEST ALBERT	II.	'03	14 Mt. Vernon St., Salem, Mass.
COMINS, WALDO HUNTER	III.	'02	Glen Ridge, N. J.
CONANT, FRANKLIN NORTON	VI.	'00	3 Wellington St., Boston, Mass.
CONANT, HAROLD SARGENT	VII.	'00	36 Pleasant St., Gloucester, Mass.
CONANT, JOHN BANCROFT	VI.	'00	421 Mass. Ave., Boston, Mass.
CONSTANTINE, ARTHUR MCGREGOR	IX.	S.	18 Strong St., Newbyport, Mass.
COOK, JOSEPH COCHRAN	VIII.	'00	2904 Wash'ton St., Boston, Mass.
COOK, ROBERT AVERY	I.	'03	93 Prospect St., Woonsocket, R. I.
COOK, WALTER LORRAIN, X. Φ.	III.	'02	1st Nat'l Bank, Burlington, Iowa.
COOKE, FREDERICK HOSMER, S. A. E.	I.	'00	508 Rockdale Ave., Cincinnati, O.
COOPER, CLAUDIUS HOWARD, Δ. T.	III.	'03	Houghton, Mich.
COOPER, MAYES	VI.	'03	Waldian and Delmar Ave's, Memphis, Tenn.
COPELAND, DURWARD	III.	'03	69 Marlboro St., Chelsea, Mass.
CORBETT, CHARLES WALTER, JR.	IX.	S.	42 Rutland Sq., Boston, Mass.
CORLISS, CYRUS	VI.	S.	Randolph, Mass.
COTTLE, LOUISE M.	VII.	S.	13 Copley St., Roxbury, Mass.
COX, CHARLES BARROWS	II.	'03	106 Wash'ton St., Newton, Mass.
CRANE, EARL BENHAM, S. A. E.	III.	S.	413 Fourth Ave., Spokane, Wash.
CRAVEN, WALTER SIDNEY	III.	'03	Kalispell, Mont.
CRITTENDEN, PHILIP LEE	VI.	'01	Geneva, Ill.
CRONENBOLD, ERNEST JOHN	XIII.	'03	New York, N. Y.
CRONKRITE, DAISY WOOD	II.	S.	63 Ash St., Nashua, N. H.
CROSBY, FRED BICKFORD	VI.	'03	Woodsville, N. H.
CROSBY, HEWITT	XIII.	'03	Buffalo, N. Y.
CROSBY, JOHN WILLIAM	II.	'03	19 Warren Place, Boston, Mass.
CROSS, FREDERICK CUSHING, Φ. B. E.	IX.	S.	428 Main St., Fitchburg, Mass.
CROSS, GEORGE IRVING	XIII.	S.	73 Dor. St., So. Boston, Mass.
CROSS, HAROLD NEWTON	XI.	'03	Exeter, N. H.
CROSWELL, JOSEPH SIMONDS	II.	'00	65 Foss St., N. Cambridge, Mass.
CROWELL, ALLAN WEBB	I.	'02	20 Seventh St., N. Bedford, Mass.
CROWELL, HENRY CLIFFORD	I.	'03	12 Mt. Vernon St., Salem, Mass.
CROWELL, LOUIS AUSTIN, S. A. E.	I.	S.	East Dennis, Mass.
CROWNINSHIELD, KATHARINE	IX.	S.	164 Marlboro St., Boston, Mass.
CULP, CHARLES MILLER, PH.B.	I.	'01	Raymond, Ill.
CULVER, LLORA ROBINSON	V.	'02	Hotel Westland, Boston, Mass.
CUMMINS, HARLE OREN, S. X.	III.	'01	54 College St., Montpelier, Vt.
CURREY, HAROLD YOUNG	II.	'02	1308 Judson Ave., Evanston, Ill.
CURRIER, HAROLD STEPHEN	II.	'03	190 Warren St., Boston, Mass.
CURRIER, WARREN FRANKLIN	V.	'03	East Kingston, N. H.
CURTIS, CHARLES WARREN	V.	'02	433 Central St., Lowell, Mass.
CURTIS, WALTER MOLBRAY	II.	S.	10 Park Ave., Whitman, Mass.
CURTIS, JOHN LEE, Φ. B. E.	VI.	S.	Fishkill-on-Hudson, N. Y.
CUSHMAN, JAMES ALLERTON	I.	'03	14 Clifton St., Taunton, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
CUTTER, EDWARD HENRY, Σ. A. E.	II.	'02	6516 Harvard Ave., Chicago, Ill.
DACY, ALICE EVELYN	IX.	S.	28 Ward St., So. Boston, Mass.
DALOZ, LAURENT ESAIE	V.	'01	19 Mt. Vernon St., Dor., Mass.
DALY, HERBERT FRANCIS	VI.	S.	352 Columbus Ave., Boston, Mass.
DANFORTH, GEORGE CLAPP	III.	'03	Box 1086, Gardiner, Me.
DANFORTH, NEWMAN LORING, Σ. A. E.	II.	'01	428 Norwood Ave., Buffalo, N. Y.
DANIELS, ROBERT WHEATON	VI.	'03	16 Harrison St., Brooklyn, N. Y.
DART, ALBERT CHARLES, JR.	III.	'00	2106 Seventh Av., Rock Island, Ill.
DART, HARRY EDSON	VI.	'01	45 Howard St., N. London, Conn.
DAVIDSON, WILLIAM FREDERICK	II.	S.	489 Highland Av., Newcastle, Pa.
DAVIS, ARTHUR COLBEY	V.	'01	146 Wash. St., Gloucester, Mass.
DAVIS, EDWARD HATTEN	IX.	'01	27 Albion St., Hyde Park, Mass.
DAVIS, FRANCIS WOODWARD, X. Φ.	I.	'03	286 High'd Av., W. Newton, Mass.
DAVIS, HAROLD HENRY	VI.	'01	Chelmsford, Mass.
DAVIS, OLIVER MARCY	XIII.	S.	120 Henry St., Cambridge, Mass.
DAVIS, WALTER POORE	III.	S.	9 Fair St., Newburyport, Mass.
DAVIS, WILLIAM ROBERT	I.	'03	323 Jefferson Ave., Scranton, Pa.
DEAN, WALTER CLARK	VI.	'00	Dalton, Pa.
DEARDEN, CLINTON MERRILL	VIII.	'01	58 Lincoln Ave., Fall River, Mass.
DE BERARD, WILFORD WILLIS, B.S.	II.	S.	Fairfax, Ia.
DELANO, PAUL HOLMES	I.	'00	Kingston, Mass.
DENHAM, HOWARD SUMNER	VI.	'03	East Pepperell, Mass.
DENNISON, CHARLES HAMILTON	X.	'01	35 Carmel St., Chelsea, Mass.
DERBY, ELOISE LLOYD	IV.	S.	352 Beacon St., Boston, Mass.
DERBY, RICHARD BAKER, Φ. B. E.	IV.	S.	Concord, Mass.
DERBY, ROBERT MASON, Δ. Ψ.	I.	S.	352 Beacon St., Boston, Mass.
DESLOGE, FERMIN VINCENT, A.B.	III.	S.	104 N. Forth St., St. Louis, Mo.
DEXTER, KATHARINE	VII.	S.	484 Commonwealth Ave., Boston, Mass.
DICKERSON, PAUL RICHARD BERESFORD, XIII.	S.	2	Hasting Sq., Camb'port, Mass.
DILLON, HAROLD HAYWARD	VI.	'03	Hastings, Neb.
DIMOCK, ROY ERNEST	VI.	'03	77 N. Montello St., Brockton, Mass.
DODGE, ALVAH WEBSTER	VI.	'03	92 Lowell St., Somerville, Mass.
DODGE, LYMAN EDWARD	V.	'01	9 Milk St., Newburyport, Mass.
DONHAM, GEORGE HERMANN	V.	S.	19 Pacific St., Rockland, Mass.
DONOVAN, WILLIAM HENRY	II.	'03	287 Highland St., Roxbury, Mass.
DOOLEY, JOHN JAMES	VI.	'03	804 Parker St., Roxbury, Mass.
DOOLEY, WILLIAM HENRY	V.	'01	571 Dudley St., Dorchester, Mass.
DORAN, JAMES FINTON	VI.	S.	Pine St., Waterbury, Conn.
DOREY, WILLIAM ASBURY	III.	'00	27 Cumberland St., Boston, Mass.
DOW, RICHARD ERNEST	V.	'01	345 Upham St., Melrose, Mass.
DOW, WILLARD WELLMAN, Φ. Γ. Δ.	IX.	'01	Alpine St., Malden, Mass.
DRAKE, HENRY PILKINS	XI.	'03	94 Monument St., W. Medford, Mass.
DRAPER, JOSEPH PORTER	IX.	'00	Canton, Mass.
DRISCOLL, FRANCIS BLAIR	I.	'01	7 Michigan Ave., Dor., Mass.
DRISCOLL, JAMES	V.	S.	73 Centre St., Roxbury, Mass.
DRUEHL, HUGO WILLIAM	III.	'03	Smith Drug Co., Salt Lake City, Utah.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
DRURY, WALTER MAYNARD	III.	'03	1011 Chicago Ave., Evanston, Ill.
DUBOIS, NORMAN ARMIN	V.	'01	2029 Bay St., Fall River, Mass.
DUDLEY, HENRY HARRISON	VI.	'03	198 N. Main St., Natick, Mass.
DULUDE, FREDERICK JOSEPH	I.	'01	95 Elm St., Woonsocket, R. I.
DUNBAR, HOWARD REGINALD	II.	S.	Canton, Mass.
DUNHAM, MILTON CORNELIUS	III.	'02	35 N. Montello St., Brockt'n, Mass.
DU PONT, LAMMOT, Φ. B. E. . . .	I.	'01	Box 354, Wilmington, Del.
DURANT, FREDERICK CLARK, JR., Φ. Γ. Δ., XIII.	S.		228 West Rittenhouse Sq., Philadelphia, Pa.
DURBIN, JOSEPH WILBUR	VI.	'02	211 Penn St., Burlington, N. J.
DURGIN, CLARA ISABEL	V.	S.	Belmont, Mass.
DURGIN, WILLIAM ANDREW	VI.	'02	44 Frost Ave., Rochester, N. Y.
DUTTON, FRANCIS BIRD, A.B. . . .	X.	'00	Auburndale, Mass.
EAGER, FRANK JOSEPH	III.	'01	1 Hartford Terrace, Dor., Mass.
EAMES, JESSE JENNINGS	II.	'02	45 Hollis St., S. Framingh'm, Mass.
EATON, RALPH WALDO	VI.	'03	7 Baltimore St., Haverhill, Mass.
EDDY, WILLIAM OSGOOD	VI.	'03	23 Webster St., Middleboro, Mass.
EDSON, WARREN ADAMS	II.	'00	11 Tremont St., Dorchester, Mass.
EGERTON, CHARLES OZRO	XIII.	'03	103 N. Main St., Springfld, Mass.
EHLE, ARCHIBALD HYDE, Σ. X. . . .	II.	S.	Faribault, Minn.
ELBERT, SAMUEL BASS, X. Φ. . . .	III.	'00	1030 21st St., Des Moines, Iowa.
ELDER, HARRIET BIGELOW	VII.	S.	Pittsfield, Mass.
ELLIS, CARLTON	V.	'00	195 Winchester St., Keene, N. H.
ELMER, CHARLES WICKERSHAM	VI.	'03	1701 Lafayette, Av., Baltim're, Md.
EMERSON, FRANK NELSON, A.B. . . .	IV.	'01	905 No. Jefferson Ave., Peoria, Ill.
EMERY, LEWIS, 3d, Δ. T. Δ. . . .	III.	S.	Bradford, Pa.
ENDRES, KENNETH WINDRAM	VI.	'03	48 Kent St., Brookline, Mass.
ENOUE, SEISUKE	I.	S.	70 Dojima Osake, Japan.
ESTABROOK, MANSFIELD, A.B. . . .	II.	'01	699 Lincoln Ave., St. Paul, Minn.
EVANS, WILLIAM HAINES	II.	'03	500 Pine St., Lockport, N. Y.
EVELAND, ARTHUR JOHN	III.	'01	17 Nottingham St., Dor., Mass.
EVERETT, HAROLD ARTHUR	XIII.	'02	1 Oxford Terrace, Boston, Mass.
EWART, CHARLES WALLACE, Σ. A. E. . . .	III.	'02	E. 937 Nava Av., Spokane, Wash.
FAELTON, OTTO	XIII.	'03	71 Crawford St., Roxbury, Mass.
FALES, HENRY HAMMETT	II.	'03	Pondville, Mass.
FARMER, WALTER HAVENS, Φ. B. E. . . .	I.	'02	80 Main St., Hartford, Conn.
FARNHAM, FRANK ROBBINS	XIII.	'03	117 Lake Av., Newt'n C'ntr, Mass.
FARNHAM, WILLIAM ELLIS, Ph.B. . . .	VI.	'01	44 Adelaide Av., Providence, R. I.
FARNUM, DWIGHT	III.	'00	24 Elm St., Brookline, Mass.
FAXON, HARRIET	IX.	S.	2 Linden St., Salem.
FELTIS, EVA LORRING	IV.	'03	Saunders, No. Weymouth, Mass.
FERRIN, HENRY ABBOTT	XIII.	'02	1515 Middlesex St., Lowell, Mass.
FERRIS, MORTIMER YALE, X. Φ. . . .	I.	'03	Windsor Road, Waban, Mass.
FIELD, DAVID DUDLEY	II.	S.	334 Madison Av., New York City.
FIELD, RICHARD MANNING, Φ. B. E. . . .	I.	'03	158 Hicks St., Brooklyn, N. Y.
FIFIELD, ETHEL FRANCES	IV.	'00	17 Pleasant St., Salem, Mass.
FINER, PERCY	II.	'03	26 Copeland St., Roxbury, Mass.
FINNEGAN, JOSEPH BERNARD	X.	'03	Stonham, Mass.
FINNERAN, THOMAS ALPHONSUS	XI.	'03	28 Fisher Ave., Boston, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
FISCHER, ADOLPH LOUIS	VI.	'01	Salem Dent Co., Missouri.
FISH, HAROLD COBURN	I.	S.	112 West St., Hyde Park, Mass.
FISHER, DANA HOLLIS	VI.	S.	Norwood, Mass.
FITCH, CHARLES HENRY	V.	'02	40 Hancock St., Boston, Mass.
FITCH STANLEY GAY HYDE, Δ. K. E.	X.	'00	14 Morrill St., Dorchester, Mass.
FITCH, WALTER SPENCER	II.	'02	48 Union St., Rockville, Conn.
FITZGERALD, JOHN MARK	II.	'02	74 Pleasant St., Camb'port, Mass.
FITZLER, HENRY	XIII.	'03	Tiverton, R. I.
FLANDERS, HERBERT MERRITT, Δ. K. E.,	II.	S.	291 Clifton St., Malden, Mass.
FLANDERS, HOWARD NELSON	II.	'03	291 Clifton St., Malden, Mass.
FLEMING, EDWARD PICKERING	III.	'01	273 Upland R'd, N. Camb'ge, Mass.
FLETCHER, HAROLD HERVEY	I.	'02	90 Babcock St., Brookline, Mass.
FLETCHER, SAMUEL ADAMS	VI.	'03	Milton, Mass.
FLINT, CHARLES KIMBALL	VI.	'01	Beacon, Waban, Mass.
FLORSHEIM, LEONARD S.	I.	'01	4913 Grand Boulevard, Chic'go, Ill.
FOGG, BENJAMIN GREELY	I.	'03	22 Tappan St., Newburyp't, Mass.
FOLJAMBE, EUGENE STILLMAN	XIII.	S.	1732 Pearl St., Denver, Col.
FOLSOM, HARRY GILMAN	VI.	'01	Malden, Mass.
FOOTE, THOMAS WITHERBEE, Σ. X. . .	III.	'02	4842 Wash'ton Ave., Chicago, Ill.
FORD, GEORGE BURDETT, A.B. . . .	IV.	'00	304 Church St., Clinton, Mass.
FOSDICK, CHARLES MUSSEY, Σ. A. E.	II.	'00	128 Pritchard St., Fitchb'g, Mass.
FOSTER, FLOYD J., Σ. A. E. . . .	III.	S.	15 W. 83d St., New York, N. Y.
FOSTER, MORTIMER BRISTOL	VI.	'01	879 Beacon St., Boston.
FOSTER, STANLEY ALFRED	X.	'03	Henniker, N. H.
FOWLE, ROBERT HALSEY	XIII.	'03	Marquette, Mich.
FOWLER, FREDERICK NEWTON, JR. . .	I.	S.	237 Walnut St., Springfield, Mass.
FOWLER, THEODORE VIETOR, JR., Σ. X	II.	'02	89 Hodge Ave., Buffalo, N. Y.
FRANCIS, GEORGE W.	I.	S.	900 Orange St., Wilmington, Del.
FRANKLIN, DUNCAN ROGERS	V.	'02	153 Foster St., Brighton, Mass.
FRANKLIN, RALPH STOWELL	VI.	S.	47 Prospect St., Melrose, Mass.
FRAZIER, LORON DARLING, JR. . . .	IV.	S.	23 Winslow Av., W. Som'v'le, Mass.
FREEMAN, FREDERIC WILLIAM, Δ. K. E.	III.	'01	258 Mt. V'rn'n St., W. Newt'n, Mass.
FRENCH, GEORGE HENRY	II.	'02	81 Circular Ave., Pittsfield, Mass.
FRENCH, PHILIP, ROLAND	V.	'01	36 Magnolia St., Roxbury, Mass.
FRIEND, ALFRED WILLIAM, Φ. Γ. Δ. .	VI.	'02	Manchester, Mass.
FRINK, GERALD	II.	'00	Box 175, Seattle, Wash.
FROST, RICHARD LINCOLN, Φ. B. E. . .	II.	'02	Lincoln St., Waltham, Mass.
FRUIT, JOHN CLYDE	IV.	'02	136 S. 13th St., La Crosse, Wis.
FULTON, WILLIAM HOWARD	VI.	'00	Chelmsford, Mass.
GAENSLER, GEORGE RALPH	III.	'03	So. Heights, San Antonio, Tex.
GALAHER, FRANCIS BRISBANE	II.	'02	892 Essex St., Lawrence, Mass.
GALLAGHER, EDWARD GERALD	VI.	'00	South Framingham, Mass.
GALLUP, ANNA BILLINGS	VII.	'01	Ledyard, Conn.
GALLUP, HARRY WALLACE	VI.	'03	186 Laurel Hill Ave., Norwich, Ct.
GALUSHA, ALBERT LEET, B.S. . . .	II.	S.	101 Gilman St., Nashua, N. H.
GAMAGE, HARRY CHARLES	VI.	S.	1415 Taylor St., San Fr'ncisco, Cal.
GAMMONS, JAMES MADISON	VI.	'03	Long Plain, Mass.
GANNETT, FARLEY	XI.	'02	1881 Harewood Ave., Wash., D. C.
GARCELON, GEORGE HOLLAND	VI.	'03	6 William St., W. Somerv'le, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
GARDNER, ARCHIBALD	XIII.	'02	Babylon, L. I., N. Y.
GARDNER, CHARLES FRANCIS . .	VI.	S.	31 Glenwood St., Brockton, Mass.
GARDNER, STEPHEN A., JR. . .	XIII.	'02	Bulkeley Sq., New London, Conn.
GARDNER, STEPHEN FRANKLIN . .	II.	'00	3 Windsor Rd., Somerville, Mass.
GARRETT, EDMOND ANTHONY, F. I. Δ.	II.	'03	10 Lagrange St., Winchest'r, Mass.
GARRETT, WILLIAM WARREN . .	III.	'01	99 Inman St., Cambridge, Mass.
GASKILL, MARY MORTIMER . .	VIII.	S.	116 Lincoln St., Worcester, Mass.
GATES, THAYER PRESCOTT, Σ. X.	II.	S.	400 E. Merrimack St., Low'l, Mass.
GAUSS, CARL FRIEDRICH . . .	IX.	S.	Colorado Springs, Col.
GEROMANOS, HERCULES WALLACE	V.	'02	40 Maynard Ave., Springfi'd, Mass.
GIBBS, ARTHUR SHERMAN . . .	VI.	'03	North Middleboro, Mass.
GIBBS, GEORGE CROCKER, 3D . .	I.	'00	176 Pleasant St., New Bed'd, Mass.
GIBSON, CARL BLANCHARD . . .	XIII.	'03	33 Highland St., Roxbury, Mass.
GIFFORD, RALPH PERCY	VI.	'02	39 Hawthorne St., Lynn, Mass.
GILKER, WILLIAM MANSFIELD . .	VI.	'03	New Richmond, Quebec.
GILSON, HENRY ROBBINS . . .	II.	'01	Groton, Mass.
GILSON, JOHN LAWRENCE, Δ. Ψ.	XIII.	'03	Rutland, Vt.
GLADDING, JOHN THOMAS FISKE	II.	'00	573 Potter Ave., Providence, R. I.
GLEASON, ETHEL AUGUSTA . . .	IX.	'01	12 Ruthven St., Roxbury, Mass.
GLEASON, GILBERT HOWE . . .	X.	'03	12 Ruthven St., Roxbury, Mass.
GLOVER, RUSSELL HENRY, X. Φ.	III.	'00	Harrington, Me.
GODDARD, ASA ELDRIDGE . . .	II.	'03	201 Clarendon St., Boston, Mass.
GODFREY, OTIS INGRAHAM . . .	III.	'03	Martinsdale, Mont.
GOLDDENBERG, MAURICE	IV.	'02	391 Meridian St., E. Boston, Mass.
GONZALEZ, ALBERTO PRIMITIVO .	III.	S.	Box 45, Monterey, N. L., Mexico.
GOODRICH, ROBERT RHEA, S.B.	II.	'01	73 Westland Ave., Boston, Mass.
GOODRIDGE, FREDERIC STANLEY	II.	'00	109 High Rock Ave., Lynn, Mass.
GOODWIN, CHARLES CARROLL . .	II.	S.	94 Chestnut St., Rochester, N. Y.
GOODWIN, EDWIN GERRISH . . .	III.	'03	Box 144, North Berwick, Me.
GORFINKLE, EMANUEL	VI.	'01	164 Walnut St., Chelsea, Mass.
GOULD, LE ROY BOARDMAN . . .	VI.	'03	17 N. Pleasant St., Taunton, Mass.
GOWELL, LOUIS NELSON	IV.	S.	Weston, Mass.
GRAFF, SHELDON DERMITT . . .	VI.	S.	Edgewood Pk., Allegheny Co., Pa.
GRANT, HARRY LAMAR, Δ. K. E.	XIII.	'00	520 Greenup St., Covington, Ky.
GRANT, KENNETH CROTHERS . . .	I.	'02	8 Bay View Ave., Newport, R. I.
GRAY, CURTIS ROCKWELL	II.	'03	38 Dartmouth St., Boston, Mass.
GRAY, GRETA	IV.	'01	Hopkins Pk., Mt. Auburn, Cinn., O.
GREELEY, WILLIAM ROGER . . .	IV.	'02	Lexington, Mass.
GREEN, CARLTON FRANCIS . . .	III.	'03	Spencer, Mass.
GREEN, ERIK HASTINGS, A.M. . .	V.	S.	14 John St., Providence, R. I.
GREEN, HENRY LINCOLN, Δ. Ψ.	IX.	'02	Bayport, L. I., N. Y.
GREENE, B. W., BATCHELDER, Δ. Ψ.	IX.	S.	50 rue Bassano, Paris, France.
GREENE, GEORGE MELVILLE . .	V.	'03	Westminster, Conn.
GRICE, JOHN MARRIOTT	III.	'03	3840 Lindell B'lv'd, St. Louis, Mo.
GRIFFIN, ARTHUR EUGENE . . .	VI.	S.	78 Winthrop St., Winthrop, Mass.
GRIFFIN, CHARLES JAMES	I.	'03	3 Mead St., Everett, Mass.
GURZA, JAIME	III.	S.	P. O. Box 100, Duranga, Mexico.
GUSTAFSON, GUSTAF EDWARD . .	I.	'01	28 Jackson St., Campello, Mass.
HAANEL, BENJAMIN F. C., B.S.	XIII.	'01	405 University Pl., Syracuse, N. Y.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
HADCOCK, EDWARD WEBSTER . . .	I.	'02	2702 Washington St., Rox., Mass.
HADDOCK, ISAAC THOMAS . . .	V.	'03	Tiverton, R. I.
HAINES, WILLIAM NORRIS . . .	VI.	S.	Linwood, Carroll Co., Md.
HALEY, DENNIS FREDERICK . . .	III.	'01	48 Blossom St., Lowell, Mass.
HALL, ARTHUR PARKER . . .	X.	'02	3 Cordis St., Charlestown, Mass.
HALL, GEORGE ANTHONY . . .	IX.	'00	366 Com'nw'lyh Av., Boston, Mass.
HALL, MILTON WEBSTER, A. K. E. .	VII.	S.	Evanston, Ill.
HALL, STEPHEN MINARD . . .	VI.	'00	427 Park Ave., Waverly, N. Y.
HAMBLET, ABEL MARTIN . . .	V.	'02	120 Federal St., Salem, Mass.
HAMILTON, ALBERT . . .	II.	'03	205 Crafts St., Newtonville, Mass.
HAMILTON, ARTHUR LITTLE . . .	III.	'00	Fond du Lac, Wis.
HAMILTON, JAMES MONTGOMERY .	IV.	S.	19 Holman St., Fort Wayne, Ind.
HAMLIN, RALPH, B.C.E. . . .	I.	S.	Orono, Me.
HAMMOND, CLIFFORD ROBSON . .	VI.	S.	294 Penn St., Buffalo, N. Y.
HAMMOND, LESTER CLARK . . .	I.	'02	Kingston, Mass.
HANSEN, AUGUST ERNST . . .	II.	'02	P. O. Box 23, Veirsen, Germany.
HANSEN, PAUL	II.	'02	704 Seventh St., N. W., Wash- ington, D. C.
HANSEN, RAYMOND EDWARD . . .	IV.	'03	Bancroft Ave., Reading, Mass.
HAPGOOD, CYRUS HOWARD, A. T. .	VI.	'00	484 Broadway, Everett, Mass.
HARDENBERGH, CLARENCE MORGAN .	II.	'03	625 Ninth St., So. Minneapolis, Minn.
HARDY, CHARLES ASHLEY, A.B. . .	III.	S.	Hotel Westminster, Boston, Mass.
HARKNESS, ARTHUR FULLER . . .	V.	'02	Walpole, Mass.
HARLOW, JUSTIN EDWARDS . . .	XIII.	'03	Edgewood Pk., Pa.
HARPER, ERNEST CHIPMAN, B.A. .	I.	'01	Sackville, N. B., Canada.
HARPS, HARRY MACY	I.	'00	Nantucket, Mass.
HARRIGAN, WILLIAM AUGUSTINE . .	I.	S.	236 Lexington St., E. Boston, Mass.
HARRIS, CHARLES HARDY	VI.	'01	17 Sawin St., Natick, Mass.
HARRIS, GALEN MOSES, A. K. E. .	II.	'03	53 Deering St., Portland, Me.
HARRIS, HENRY GEORGE	XIII.	'03	36 Worcester Sq., Boston, Mass.
HARRIS, WILSON PARK	VII.	'02	125 St. Marks Av., Brooklyn, N. Y.
HARWOOD, CHARLES FRANK, S. X. .	II.	S.	Warren, Mass.
HARWOOD, LEON MARTIN	X.	'03	188 Walnut St., Springfield, Mass.
HASKELL, ALBERT ADAMS	V.	'02	Essex, Mass.
HATCH, MELLE CHAMBERLAIN MASON,	II.	'03	105 Wash. Ave., Chelsea, Mass.
HAWORTH, LLOYD BACHELDER . . .	II.	S.	43 Columbus Ave., Lowell, Mass.
HAYDEN, ARTHUR GUNDERSON . . .	I.	'01	559 Potomac Ave., Buffalo, N. Y.
HAZLEWOOD, SUMNER	I.	S.	161 Allen Ave., Lynn, Mass.
HEALEY, HARRY RAYMOND	X.	'01	38 St. Botolph St., Boston, Mass.
HEALY, ALEXANDER	III.	'03	2529 Jefferson Ave., Ogden, Utah.
HEATH, AURORA ALICE	VII.	S.	Northboro, Mass.
HECKMAN, JAMES CONRAD, E. E. . .	V.	S.	112 E. Washington Lane, Ger- mantown, Philadelphia, Pa.
HECKMAN, JOHN FRANCIS	XIII.	'03	16 Prospect St., N. Attleboro, Mass.
HEGHINIAN, GARABED G., A.B. . .	II.	'00	Marash, Central Turkey.
HELMICK, WILLIAM FRED	VI.	'03	1122 York St., Cincinnati, Ohio.
HENNE, ERNST	IV.	'02	589 La Salle Ave., Chicago, Ill.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
HENRICH, LOUIS RICHARD	IV.	'01	69 Northampton St., Buffalo, N. Y.
HEPBURN, ANDREW HOPEWELL . .	XIII.	'03	Avondale, Pa.
HERBERT, EDWARD	VI.	'00	Broad Run, Va.
HERN, JOSEPH LOUIS, B.S. . . .	II.	'00	34 Sydney St., Dorchester, Mass.
HERVEY, ELMER MERRILL	VI.	'02	8 Humphreys Sq., Dor., Mass.
HIGGINS, ALBERT WILLIS	X.	'01	38 Woodbine St., Aub'rd'le, Mass.
HILDRETH, HORACE EDWIN, A.B. .	I.	'01	6 Linnæan St., Camb., Mass.
HILKEN, PAUL GERHARD LUDIGER .	II.	S.	133 Laurale St., Baltimore, Md.
HILL, BEULAH CHAPIN	VIII.	'02	107 King St., Dorchester, Mass.
HILL, FRANK ALBERT	II.	'03	18 Chapel Ave., Andover, Mass.
HILLS, HAROLD FELLOWS	I.	S.	256 Andover St., Lowell, Mass.
HINMAN, DEAN	I.	'00	158 Williams St., Taunton, Mass.
HIROKAWA, TOMOKICHI, B.S. . .	VI.	'00	Imabari, Japan.
HIRT, JULES HECTOR	III.	'01	Brookline, Mass.
HOBBS, EDITH MORRILL	IV.	S.	102 Thornton St., Roxbury, Mass.
HODGDON, HENRY AUGUSTINE . . .	II.	'01	5 Sumner St., Medford, Mass.
HODSDON, CHARLES WENTWORTH . .	II.	'00	171 Allston St., Camb'port, Mass.
HOGLE, MILTON WARD	II.	'01	33 Linden St., Rochester, N. Y.
HOLBROOK, GEORGE MYRON	V.	'00	116 Chestnut St., Camb'port, Mass.
HOLFORD, WILLIAM GORDON	IV.	'01	Hazardville, Conn.
HOLLIS, CHARLES BERTRAM	III.	'02	6 Concord Pl., Natick, Mass.
HOLMES, VALDEMAR FRANK, A. T. .	V.	'01	Strandvey 30, Copenhagen, Den.
HOOKER, HENRY KEENE	VI.	'02	Wellesley Hills, Mass.
HOOPER, HARRIS GREENWOOD . . .	XIII.	'00	494 Third St., Brooklyn, N. Y.
HOPEMAN, BERTRAM CORNELIUS . .	IV.	S.	39 Lake View Pk., Rochester, N. Y.
HOPKINS, ROBERT MILNE	VI.	'00	1318 Judson Ave., Evanston, Ill.
HOPWOOD, CORA STELLA	VIII.	S.	205 Austin St., Worcester, Mass.
HORNE, LEWIS WINSLOW	XIII.	'01	68 Hawthorne St., Malden, Mass.
HORSTMAN, WILLIAM HENRY	IV.	S.	3610a N. 9th St., St. Louis, Mo.
HORTON, FRANK NELSON	II.	'00	Southbridge, Mass.
HOUGH, WILLIAM BALDWIN, A. T. .	II.	S.	765 W. 3d St., Williamsport, Pa.
HOUNSFIELD, LAMONT DU PONT, F. B. E.,	X.	S.	Anchorage, Ky.
HOWARD, JOHN WARDWELL	I.	'03	147 Grampian Way, Dor., Mass.
HOWE, HERBERT HOLMES	IX.	'00	Hotel Hunnewell, Newton, Mass.
HOWE, JAMES CARLTON, A.B. . . .	VI.	'02	Essex St., Longwood, Mass.
HOWELL, EDWARD WINCHESTER . . .	I.	'03	23 Mt. Pleasant Av., Boston, Mass.
HOWELL, WILLIAM ALLEN	VI.	'03	28 Sumner St., Andover, Mass.
HOWES, CYRUS PIERCE	IV.	'03	So. Yarmouth, Mass.
HOWES, RALPH HOLT	III.	'03	36 Marlboro St., Keene, N. H.
HOXIE, EDWARD ELY	IV.	'03	Duxbury, Mass.
HUDSON, HENRY NORMAN	II.	'02	94 Prescott St., Cambridge, Mass.
HUFF, MONTGOMERY GERRANS	II.	S.	Manchester, Vermont.
HULL, FLOYD BYRON	VI.	'01	10 Division St., Adrian, Mich.
HUMPHREY, EDWIN ROWLAND, X. F. .	II.	S.	38 South St., Boston, Mass.
HUNT, HERMAN REYNOLDS	XIII.	'00	97 North St., New Bedford, Mass.
HUNT, HOWARD NELSON	II.	'02	55 Carleton St., Newton, Mass.
HUNTER, FREDERICK HUSTON	IV.	'02	8 Harris St., Newburyport, Mass.
HUSSEY, JAMES WHITTLESEY	XIII.	'00	1531 Cherry St., Toledo, Ohio.
HUTCHINS, HARRY PENNELL	VI.	S.	Minot, Maine.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
HUTCHINSON, JOHN ALBERT . . .	VI.	'01	North Evans, Erie Co., N. Y.
HYDE, AUSTIN TABER . . .	X.	'01	33 Harris St., Waltham, Mass.
HYDE, GEORGE TAYLOR, B.S., Δ. T.	IV.	S.	696 Pine Ave., Montreal, Canada.
INGALLS, FREDERICK DuBOIS . . .	II.	S.	679 Broadway, Kingston, N. Y.
ISHAM, ALONZO KEYT, Σ. A. E. . .	II.	S.	849 Oak Ave., Walnut Hills, Cincinnati, Ohio.
JEWETT, ARTHUR CRAWFORD . . .	II.	'01	Toledo, Ohio.
JEWETT, KENNETH DuBOIS . . .	II.	'03	224 Blossom St., Fitchburg, Mass.
JOHNSON, CARL FRANCIS . . .	II.	'01	67 Westland Ave., Boston.
JOHNSON, CHARLES CHAPLIN . . .	X.	'00	P.O. Box 119, Danversport, Mass.
JOHNSON, DANIEL STEWART . . .	III.	'00	Short Hills, N. J.
JOHNSON, FRANK . . .	I.	'03	241 Lowell St., Lawrence, Mass.
JOHNSON, HORACE . . .	V.	S.	61 Federal St., Newburyport, Mass.
JONES, JOHN LARRABEE . . .	VI.	'02	853 Forest Ave., Deering, Maine.
JONES, JOSEPH RUSSELL . . .	III.	'03	Highland Park, Lake Co., Ill.
JORDAN, RALPH CURTIS, Σ. X. . .	II.	'03	Columbus, Ga.
JORDAN, ROBERT RISHWORTH, Δ. K. E.	II.	'03	290 Danforth St., Portland, Maine.
JOSEPH, JESSE STRASSBURGER . . .	II.	'03	1328 Locust St., Allegheny, Pa.
JOUETT, HENRY DETRICK, Δ. T. Δ. . .	I.	'00	37 Chester St., Somerville, Mass.
JOYCE, CLARENCE MASON . . .	V.	'03	19 Park St., Medford, Mass.
JUDSON, HOWARD CAMPBELL . . .	II.	'02	163 Elm St., Holyoke, Mass.
KATTELLE, WALTER ROBY . . .	IV.	'00	205 Grove St., Auburndale, Mass.
KEAY, HERBERT ORESTES . . .	II.	'00	Kingston, N. H.
KEHEW, FRANCIS DONALDSON . . .	V.	'03	104 Inman St., Camb'port, Mass.
KEITH, LEIGH SHELTON . . .	VI.	'00	North Easton, Mass.
KELLEY, WILLIAM GHOST . . .	VI.	'01	914 No. Sixth St., Burlington, Ia.
KELLOGG, CHARLES WETMORE, JR., Δ. Ψ., VI.	'02	51 St. Paul St., Brookline, Mass.	
KENDALL, ARTHUR ISAAC . . .	VII.	'00	330 Broadway, Somerville, Mass.
KENNARD, WILLIAM OLIVER . . .	VI.	S.	51 Everett St., Everett, Mass.
KENNEDY, HERBERT HARLEY . . .	VI.	'01	South Framingham, Mass.
KEOUGH, WILLIAM THOMAS, S.B. . .	XIII.	S.	234 Saratoga St., E. Boston, Mass.
KERN, LeROY ESKRIDGE, A.B. . .	IV.	'02	Nashville, Tenn.
KERSHAW, GEORGE ELLIOTT . . .	XIII.	'03	29 Summit Av., Somerville, Mass.
KIMBALL, ALFRED WHITEFIELD . . .	V.	'03	51 Fair St., Newburyport, Mass.
KIMBALL, EDWIN ELLIOTT . . .	VI.	'02	124 6th E. St., Salt Lake City, Utah.
KIMBALL, LEMUEL C., JR., A.B., Σ. A. E.	VI.	'03	271 Beacon St., Boston, Mass.
KIMBALL, RALPH ELMORE . . .	I.	'02	25 Lover's Leap Av., Lynn, Mass.
KING, EVERETT HOWARD . . .	V.	'03	Tewksbury, Mass.
KING, ROBERT JOSHUA . . .	III.	'03	Billerica, Mass.
KINGMAN, WILLIAM ALDEN . . .	V.	'00	South Framingham, Mass.
KLIEVES, ARCHIBALD LEE . . .	IV.	S.	2315 Chapline St., Wh'ling, W. Va.
KNIGHT, ELLIOT WALKER, Φ. Γ. Δ. . .	III.	'02	55 Ashford St., Allston, Mass.
KNIGHT, GEORGE WASHINGTON . . .	V.	'00	38 Rosseter St., Boston, Mass.
KNIGHTS, CHARLES FOX . . .	I.	'02	567 Lebanon St., Melrose, Mass.
KNOX, KING HARDING, Σ. A. E. . .	VI.	'01	320 Church St., Baton Rouge, La.
KOCH, HARRY GEORGE, X. Φ. . .	IV.	'01	199 25th St., Milwaukee, Wis.
KRUSE, ROBERT LOUIS . . .	X.	'03	1845 Madison R'd, Cincinnati, O.
LAGE, ANTONIO MARTIUS, B.S. . .	VI.	'02	34 Vis Ave., du Bois de Boulogne, Paris.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
LANE, FRANK GEORGE, Σ. A. E.	II.	S.	259 Vaughan St., Portland, Maine.
LANE, WILLIAM THOMAS	II.	S.	259 Vaughan St., Portland, Maine.
LANG, ALFRED ERNEST, Φ. Γ. Δ.	IV.	'03	8 Green St., Lawrence, Mass.
LANGE, THEODOR FERDINAND . . .	I.	'01	29 King St. Ave., Springfield, Mass.
LANGFORD, GRACE	VIII.	'00	Chiltonville, Plymouth, Mass.
LANGLEY, ARTHUR HOOPER	I.	'03	22 Appleton St., Malden, Mass.
LARRABEE, HAROLD DAVIS	VI.	'02	Bennington, Vermont.
LARRABEE, JOHN HEBER	I.	'00	34 Foster St., Melrose, Mass.
LATHAM, BERNARD WILSON	II.	'03	18 Pearl St., Willimantic, Conn.
LATSHAW, WILLIAM HERBERT MORSE	V.	S.	411 West 13th St., Pueblo, Colo.
LAWRENCE, ELLIS FULLER	IV.	'01	59 High St., Charlestown, Mass.
LAWRENCE, LEWIS MORSE, Φ. Γ. Δ.	IV.	'00	Nashua, N. H.
LAWS, JAMES BRADFORD, Δ. Ψ. . .	IX.	S.	3003 Reading R'd, Cincinnati, O.
LAWTON, RICHARD MACK	I.	'03	213 Pawtucket St., Lowell, Mass.
LEACH, ROBERT HOWLAND	III.	'00	28 West Elm St., Brockton, Mass.
LEARY, DENIS GERALD	II.	'03	254 Central St., Springfield, Mass.
LEAVITT, AUGUSTUS SCAMMAN . . .	I.	'03	164 Main St., Haverhill, Mass.
LEE, ALICE TERERIA	IX.	S.	12 So. Walker St., Lowell, Mass.
LEE, LAWRENCE HARGREAVE	VI.	'03	369 Hudson St., Buffalo, N. Y.
LENTH, GEORGE CASPER DEERING . .	I.	'03	119 Warwick St., Chicago, Ill.
LEONARD, CLIFFORD MILTON, Δ. T. Δ.	I.	'00	2501 Michigan Ave., Chicago, Ill.
LEONARD, JOHN KELLEY	VI.	S.	11 Gordon St., Jamaica Pl., Mass.
LEWIS RONDEL	V.	'00	Malden, Mass.
LEWIS, WILLIAM REMSEN	I.	'03	Newport, R. I.
LIBBEY, GEORGE EASTMAN	II.	'03	147 Wyoming Ave., Melrose, Mass.
LILIENCRAFT, EDITH	IV.	'00	359 Telegraph Ave., Oakland, Cal.
LINCOLN, CHARLES THAYER	V.	'01	21 St. James Ave., Boston, Mass.
LINCOLN, FRANCIS CHURCH	III.	'00	21 St. James Ave., Boston, Mass.
LINGLEY, ROBERT ROSS	II.	'00	32 Ash St., Cambridge, Mass.
LITCHMAN, HAROLD BARTLETT . . .	III.	'02	Marblehead, Mass.
LITTLE, ARTHUR	V.	'01	Newbury, Mass.
LITTLE, JAMES LOVELL, JR., A.B.	IV.	S.	Brookline, Mass.
LITTLEFIELD, EMMETT	III.	'03	60 Maple Ave., Troy, N. Y.
LITTLEFIELD, FRANK WILLIAM . . .	III.	'00	62 Franklin St., Peabody, Mass.
LITTLEFIELD, HOMER	VI.	'00	60 Maple Ave., Troy, N. Y.
LITTLEFIELD, ROBERT STANLEY . .	XIII.	'01	321 Broadway, Somerville, Mass.
LIVERMORE, ROBERT GURDON . . .	I.	'03	Brookfield, Mass.
LOCKETT, KENNETH	II.	'02	44 East 50th St., Chicago, Ill.
LOHBILLER, HARRY JOHN	II.	S.	21 Cranston St., Roxbury, Mass.
LOMBARD, ALBERT EATON, Δ. K. E.	I.	'02	1805 Jefferson St., Kansas City, Mo.
LORING, RALPH STOODLEY	I.	'01	78 High'd Ave., Somerville, Mass.
LOUGHLIN, GERALD FRANCIS		'03	16 Thornley St., Dorchester, Mass.
LOUNSBURY, WILLIAM C. . . .	VII.	'03	66 Montclair Ave., Rosl'dale, N. Y.
LOW, HARRY RAYMOND	III.	'03	234 W. Elm St., Brockton, Mass.
LOW, RUSSELL BRYANT, Δ. Ψ. . . .	IX.	'02	414 Main St., Fitchburg, Mass.
LUNAN, THOMAS MASON	V.	'01	Andover, Mass.
LUND, HARRY GARDNER	VI.	'03	Billerica, Mass.
LUNDIN, LAURA MARIE	VIII.	'01	613 Putnam Av., Camb'port, Mass.
LYON, JAMES LAWRENCE	II.	'03	320 High St., Central Falls, R. I.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
LYTIES, OTTO GERHARD	II.	'00	44 East 82d St., New York, N. Y.
MCALEP, JAMES ALBERT, S. A. E. .	III.	S.	Eastport, Me.
MCBURNEY, HARRY	I.	'01	28 W. 37th St., New York, N. Y.
MCCARTHY, CHARLES EMMETT . . .	X.	'02	Haverhill, Mass.
MCCRUDDEN, FRANCIS HENRY . . .	V.	'00	134 Castle St., Boston, Mass.
MCDANIEL, ALLEN BOYER	IV.	'01	Dorchester Sta., Dorchester, Mass.
MCDONALD, HARRY PEAKE, JR. . .	I.	'01	318 W. Chestnut St., Louisville, Ky.
MCDONNELL, THOMAS FRANCIS . . .	IV.	S.	440 Prospect Ave., Buffalo, N. Y.
MCDOWELL, PAULINE, A. B. . . .	VIII.	S.	447 Summer Ave., Newark, N. J.
MACE, CHARLES AUSTIN	V.	S.	11 Ashland St., Dorchester, Mass.
MGOVAN, FRANCIS XAVIER	II.	'00	14 Berkeley St., Lawrence, Mass.
MCINERNEY, THOMAS DORSÉE . . .		'03	Kingston, Kent Co., N. B.
MCINNES, ANGUS ARCHIE	I.	S.	23 Salcombe St., Dorchester, Mass.
MCINTOSH, CHARLES JEWELL, A. Ψ. .	II.	'03	Racine, Wis.
MCINTYRE, FREDERICK WILLIAM . .	VI.	S.	32 Second St., Chelsea, Mass.
MCIVER, JEAN BOND, B. S.	VII.	S.	158 Beacon St., Worcester, Mass.
MCKECHNIE, BENJAMIN EDWARD, Φ. Γ. Δ.,	III.	'02	66 Bird St., Dorchester, Mass.
McKELVEY, LUCIUS BLAINE, S. X. .	III.	'03	204 Arlington St., Youngston, O.
MACLEOD, GRACE	V.	'01	146 Mt. Auburn St., Camb'dg, Mass.
McMASTER, HERBERT MILTON, A. T.,	VI.	S.	Portland, Ore.
McMEMMEN, WILLIAM VINCENT . . .	I.	'03	35 Fourth St., E. Camb'dge, Mass.
McNAUGHTON, ERNEST BOYD	IV.	'02	3 Mt. Auburn Pl., Camb'dge, Mass.
McNEIL, HECTOR	I.	S.	29 Stanley St., Dorchester, Mass.
MACINTRE, BENJAMIN GOULD	V.	'00	150 W. Concord St., Boston, Mass.
MACGREGOR, RODERICK JAMES . . .	VI.	'03	South Lincoln, Me.
MACPHERSON, HERBERT AUSTIN, A. K. E.,	XIII.	S.	20 Garden St., Medford, Mass.
MCRÆ, LILIAN JULIA	VII.	S.	103 Rosseter St., Dorch., Mass.
MADERO, ALBERTO	II.	S.	Parras-Coahuilla, Mexico.
MADERO, EMILIO	III.	S.	Parras-Coahuilla, Mexico.
MADERO, SALVADO SILVESTRE . . .	III.	'00	Parras-Coahuilla, Mexico.
MADGEBURG, FREDERICK WILLIAM . .	IV.	S.	Ashland, Pa.
MAGNITZKY, ALBERT LOUIS	II.	'03	127 Chestnut Av., Jam. Pl., Mass.
MAGRANE, PATRICK HENRY	IX.	'02	247 Ocion St., Lynn, Mass.
MAGUE, FRANCIS JOSEPH	I.	S.	West Newton, Mass.
MAHAR, JAMES JOSEPH	II.	S.	68 L St., South Boston, Mass.
MANAHAN, ROBERT FULTON	III.	'03	14 Newbury St., Boston, Mass.
MANLEY, HENRY, JR.	V.	S.	116 Mt. Vernon St., W. Rox. Mass.
MANLEY, SUMNER MARSHALL	II.	'00	P. O. Box 158, Brockton, Mass.
MANNING, CHAUNCEY PERCIVAL . . .	II.	S.	60 Highland St., Marlboro', Mass.
MANSFIELD, WILLIAM BURNS	III.	S.	26 Cumberland St., Boston, Mass.
MANSON, GYULA BENNETT	III.	'03	200 Trenton St., E. Boston, Mass.
MARCUS, HENRY CHARLES	III.	'01	Menlo Park, San Mateo Co., Cal.
MARDICK, JOHN RICE	V.	S.	19 Bainbridge St., Roxbury, Mass.
MARKIEWITZ, DAVID		'03	51 Eliot St., Boston, Mass.
MARSH, GEORGE EVERETT, JR. . . .	VIII.	'01	Georgetown, Colo.
MARSH, ROBERT PENNEMAN, A. K. E.	II.	'03	145 Spring St., Springfield, Mass.
MARSHALL, HARRY HALE	III.	S.	South Framingham, Mass.
MARTIN, ARTHUR SAFFORD	III.	'03	35 Crescent Ave., Chelsea, Mass.
MARTIN, CHARLES EVERETT	IV.	'01	Antrim, N. H.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
MARTIN, WALTER IRVING . . .	I.	S.	2600 Michigan Ave., Chicago, Ill.
MARVIN, JOHN REGNIOLD . . .	II.	'02	88 Perry St., Brookline, Mass.
MASON, STEPHEN NICKERSON . . .	X.	'03	Wakefield, Mass.
MATHER, GEORGE EVERETT . . .	II.	'02	West Brattleboro, Vt.
MATTEOSSIAN, ZENAS NERSES, A.B.,	IV.	'02	20 Rue Misk, Const'nople, Turkey.
MATTHIES, WILLIAM HUGO . . .	VI.	S.	927 Bloomfield St., Hoboken, N. J.
MAXFIELD, DANIEL ELLWOOD . . .	II.	'00	12 Railroad Av., Amesbury, Mass.
MAXSON, HARRY WESCOTE . . .	IV.	S.	128 Main St., Westerly, R. I.
MAY, HERBERT SCHAW, Δ. K. E. . .	II.	'02	28 Alveston St., Portsmouth, N.H.
MAYO, ROBERT, JR.	II.	'02	3727 Locust St., Philadelphia, Pa.
MEAD, GEORGE HOUK, B.L. . . .	X.	S.	Dayton, Ohio.
MEARS, JOSEPH ARCHIBALD . . .	VI.	'03	234 So. Main Ave., Scranton, Pa.
MELCHER, ARTHUR CLARKE . . .	V.	'00	58 Bowen St., Newton Cent., Mass.
MENDELL, HAROLD HAMMETT . . .	II.	'03	127 Franklin St., Allston, Mass.
MENDENHALL, BYARD WILLIAM . .	VI.	'02	Springville, Utah.
MERRICK, CHARLES VAN, Δ. K. E. .	IV.	'00	1008 So. Salina St., Syracuse, N.Y.
MERRICK, FREDERIC ICKES, X. Φ. .	IV.	'00	New Brighton, Pa.
MERRICK, SILAS CLARENCE, X. Φ. .	II.	'02	New Brighton, Pa.
MERRILL, ALBERT SIDNEY	X.	'00	18 Ellis Ave., Malden, Mass.
MERRILL, ARTHUR POTTER	IV.	S.	102 Lowell St., Peabody, Mass.
MERRILL, HERBERT CHANDLER . . .	X.	'03	38 Main St., Peabody, Mass.
MERRILL, LESLIE EATON	II.	'01	48 High'd Ave., Haverhill, Mass.
MESSINGER, HARRY CARLETON . . .	VII.	S.	East Providence Centre, R. I.
MILES, HAROLD FAIRMAN	V.	'03	25 King St., Worcester, Mass.
MILLAR, LESLIE WALKER, Σ. A. E. .	XIII.	S.	116 W. Concord St., Boston, Mass.
MILLARD, EMMOR HAMILTON	II.	S.	16 Franklin St., Watertown, Mass.
MILLARD, MAUDE LOVELL	IV.	S.	661 Boylston St., Boston, Mass.
MILLER, BENJAMIN	VI.	'01	7 East 8th St., Cincinnati, Ohio.
MILLER, BLAINE HESTON, Δ. K. E. .	I.	'03	1429 N. Penn. St., Ind'polis, Ind.
MILLER, LESTER FREEMAN, Σ. A. E. .	IV.	S.	Pepperell, Mass.
MILLER, LEWIS ARTHUR	I.	'00	North Easton, Mass.
MILLER, STUART BERWICK	X.	S.	148 Hancock St., Camb'ge, Mass.
MITCHELL, FRANK KOLLOCK, Φ. B. E.,	X.	S.	53 Oak St., Hyde Park, Mass.
MITCHELL, GEORGE LEROY, B. S. . .	VI.	'01	14 James St., Boston, Mass.
MITCHELL, WILLIAM EDWARD	VI.	'01	P. O. Box 141, Milton, Mass.
MIXTER, CHARLES GALLOUPE, Δ. Ψ. .	VII.	'02	180 Marlboro St., Boston, Mass.
MIXTER, WILLIAM JASON, Δ. Ψ. . .	VII.	'02	180 Marlboro St., Boston, Mass.
MOHLER, DAVID D.	X.	'03	Colorado Springs, Colo.
MOIES, WILLIAM HENRY HASKELL . .	XIII.	'03	71 Clay St., Central Falls, R. I.
MONAGHAN, JAMES FRANCIS	II.	S.	18 Bleachery St., Lowell, Mass.
MONTGOMERY, FRANK PARK	VI.	'02	Brunswick, Maine.
MONTGOMERY, ROBERT JAMES, Σ. A. E.,	V.	'01	Bacon St., Natick, Mass.
MOODY, GEORGE BARRELL	XIII.	'00	31 Summer St., Bangor, Maine.
MOORE, PHILIP WYATT, Δ. T. . . .	II.	'01	268 Kent St., Brookline, Mass.
MORE, ARTHUR SMITH, Δ. K. E. . .	I.	'02	49 Edwards St., Springfield, Mass.
MORGAN, HAROLD LOOMIS	VI.	'00	7 Lincoln St., Springfield, Mass.
MORRILL, ROBIE WALTER	VI.	'02	140 Congress St., Amesbury, Mass.
MORRIS, HENRY CURTIS	III.	'00	Union Sq. Hotel, New York, N.Y.
MORRIS, RALPH DAVIS	VI.	'03	Monson, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
MORSE, HOWARD SCOTT	I.	'03	260 Ames St., Dedham, Mass.
MORSE, JOHN RUSSELL	I.	'01	932 N. Main St., Brockton, Mass.
MORSE, WILLARD VAUGHAN	III.	'02	Monterey, Mexico.
MORTON, ROBERT BASS, B. S.	VI.	'01	Randolph, Vermont.
MOTT-SMITH MORTON CHURCHILL	VI.	'00	26 Blagden St., Boston, Mass.
MOULTON, WALTER AUGUSTUS	III.	'00	10 Upland St., Dorchester, Mass.
MULHERIN, CHARLES PATRICK, A. B.,	I.	S.	Summerville, Augusta, Ga.
MULLALY, FELEX	XIII.	S.	6 Ashmont St., Dorchester, Mass.
MURRAY, JOSEPH JOHN	II.	S.	184 Wash'gt'n St., Newton, Mass.
MURRAY, RAY, F. B. E.	I.	'01	<i>The Tribune</i> , New York, N. Y.
MYERS, LEONARD FRED	I.	'03	227 Andrews St., Rochester, N.Y.
NAGEL, MORTIMER LIVINGSTON, S. X.,	III.	S.	581 Delaware Ave., Buffalo, N. Y.
NAGLE, FRANCIS ALOYSIUS	XIII.	S.	31 Howland St., Roxbury, Mass.
NASH, ARTHUR EDGAR	X.	'02	95 Linc'ln St., N'wt'n H'l'ds, Mass.
NEALL, NEWITT JACKSON	VI.	'00	2526 North 10th St., Phila., Pa.
NELSON, ARTHUR THOMAS	I.	'02	208 Princeton St., E. B'st'n, Mass.
NELSON, EDWIN EUGENE	VI.	'02	85 Mansur St., Lowell, Mass.
NETTLETON, VAN IRVING	I.	'03	19 Claremont Park, Boston, Mass.
NEWLIN, WILLIAM JESSE, A. B.	II.	'01	Port Carbon, Pa.
NEWMAN, ROLF RAYMOND	I.	'03	Riverside, Cal.
NIBECKER, CLAUDE PENDLETON	XI.	'03	Glen Mills, Del. Co., Pa.
NICHOLS, ARTHUR RICHARDSON	IV.	'02	Monson, Mass.
NICKERSON, ARTHUR HENRY	II.	'02	17 High St., Newburyport, Mass.
NICKERSON, FREDERIC, X. F.	IV.	'03	Santa Barbara, Cal.
NIELDS, BENJAMIN, JR., A. P.	II.	'03	803 Broome St., Wilmington, Del.
NIMS, LESTER ALBERT	I.	'01	234 Court St., Keene, N. H.
NORTH, EDWARD, 2D	III.	'00	Edgehill Road, Brookline, Mass.
NORTON, HAROLD LEE	III.	'03	27 Pearl St., Medford, Mass.
NUTTER, ALFRED DE WITT	I.	'01	28 Shurtleff St., Chelsea, Mass.
NUTTER, HARRY GODFREY	VI.	'01	28 Shurtleff St., Chelsea, Mass.
NUTTER, RALPH HERBERT	II.	'03	8 Congress St., Lynn, Mass.
OBEAR, GEORGE BARROWS	VI.	'02	640 Western Ave., Lynn, Mass.
OBER, JULIUS EDWARD	V.	'01	748 Tremont St., Boston, Mass.
O'CONNELL, GEORGE PAUL	I.	'02	188 Hampden St., Holyoke, Mass.
ODELL, JOHN RIPLEY	V.	'02	581 Cass Ave., Detroit, Mich.
O'HALLORAN, THOMAS HENRY	II.	'03	27 Neal St., Marlboro, Mass.
OLIVER, LESLIE ALLEN, A.B.	IV.	S.	Annapolis, Md.
OLMSTED, FREDERIC ARTHUR	X.	'03	13 Rockland St., Roxbury, Mass.
ORDWAY, DANIEL LEIGHTON	V.	'01	11 Gibbs St., Newton Cen., Mass.
OSBORNE, HAROLD	VI.	'03	Columbia, S. C.
OSGOOD, HARRY EDMUND	II.	'00	272 Irving Ave., Chicago, Ill.
OSGOOD, ISAAC	II.	'00	18 Putnam St., W. Newton, Mass.
OSGOOD, PAUL MOODY, B.S.	V.	S.	15 Whittier St., Amesbury, Mass.
OXNARD, HORACE WHITCOMB	I.	'00	Norway, Maine.
PAGE, NEWELL CALDWELL	VI.	'02	12 Horton St., Newburyp't, Mass.
PALMER, ROBERT	VI.	'03	Larchmont, N. Y.
PALMER, VIRGIL MARO	II.	'03	Willimantic, Conn.
PARASCHOS, GEORGE THEODORE	I.	'01	Regie des Tabacs, Constantinople.
PARKE, JULIUS LEONARD, A.B.	IV.	S.	516 Hale Av., Avondale, Cinn., O.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
PARKER, PAUL REVERE	XIII.	'03	24 Wendell St., Cambridge, Mass.
PARROCK, PERCY HARRY, Δ. T. . . .	II.	'01	Youngstown, Ohio.
PATCH, CLAUDE ELDRED	XIII.	'02	28 Lincoln St., Stoneham, Mass.
PATCH, EMERETTE OPHLIA	VII.	S.	Lexington, Mass.
PATCH, JAMES ALFRED, Δ. T. . . .	X.	S.	Stoneham, Mass.
PAUL, CHARLES EDWARD	II.	'00	36 High St., Belfast, Me.
PEABODY, ALFRED	XIII.	'03	19 Chestnut St., Salem, Mass.
PEARSE, LANGDON, A.B. . . .	I.	S.	317 Walnut Ave., Roxbury, Mass.
PEARSON, ALBERT WILLIAM	VI.	'03	205 Park St., W. Roxbury, Mass.
PEASLEE, HIRAM FRED	III.	'03	P. O. Box 537, Haverhill, Mass.
PICK, ARTHUR STEARNS	VIII.	'00	Wellington, Mass.
PELL, JOHN FRANCIS	III.	'03	34 Hill St., Newark, N. J.
PEMBER, WALTER PURTON ROSS	IV.	'02	P. O. Box 201, Needham, Mass.
PEMBERTON, HENRY AUGUSTUS, X. Φ. . . .	II.	'03	230 Woodl'nd Rd., Aub'nd'le, Mass.
PEMBROKE, EARL RICHARD	III.	S.	54 W. 2d So. St., Salt Lake City, Utah.
PENARD, THOMAS EDWARD	VI.	S.	Paramaribo, D. G., S. A.
PENDELL, CHARLES WILLIAM, S.B. . . .	II.	'00	Cleburne, Texas.
PENDERGAST, ROLAND BALL	VI.	'02	5717 Monroe Ave., Chicago, Ill.
PENDILL, PIERRE BARBEAU	VI.	S.	401 N. Front St., Marquette, Mich.
PERKINS, GRACE HAMILTON, A.B. . . .	V.	S.	Arlington Heights, Mass.
PERKINS, JOHN MCCLARY	VI.	'01	Arlington Heights, Mass.
PERRY, OLIVER HAZARD, JR., Δ. T. . . .	XIII.	'01	282 Nesmith St., Lowell, Mass.
PERRY, THOMAS DOANE, A.B. . . .	II.	'00	Boswell Ave., Crete, Neb.
PERSONS, ASHTON CLIFFORD	V.	'01	66 Bridge St., Winsted, Conn.
PETERS, ANTHONY WINFRED	I.	'01	Gould St., West Roxbury, Mass.
PETERSON, GUY CROSBY	III.	S.	Duxbury, Mass.
PHILBRICK, BURTON GARFIELD	VII.	'02	32 Broad St., Newburyport, Mass.
PHILBRICK, JOSEPH	X.	'02	32 Broad St., Newburyport, Mass.
PHILBRICK, JOSEPH ERNEST	X.	'01	1 Wabon St., Roxbury, Mass.
PIGEON, WILLIAM GARDNER, Φ. Γ. Δ. . . .	IV.	'00	139 Trenton St., E. Boston, Mass.
PITCHER, EDMUND HENRY	II.	'00	Keene, N. H.
PITTS, EARL PHELPS	II.	S.	480 Main St., Fitchburg, Mass.
PLACE, CLYDE RICHMOND	II.	'02	Mount Upton, N. Y.
PLAYER, PRESTON, A.B. . . .	II.	'01	Hotel Westminster, Boston, Mass.
PLUMB, RALPH, Δ. Ψ. . . .	II.	S.	267 Kinwood Ave., Buffalo, N. Y.
PLUMMER, HOWARD CLARK	III.	'00	P. O. Box 92, Milton, Mass.
PLUMMER, LAURA SUSANNA	VII.	S.	110 Princeton St., E. B's't'n, Mass.
POLLARD, EDSON THOMPSON	II.	'02	Rutland, Vt.
POND, HARRY BRADFORD, Σ. A. E. . . .	I.	'02	Unionville, Conn.
POOLE, FREDERICK ARTHUR, Φ. B. E. . . .	XIII.	'02	5522 E. End Ave., Chicago, Ill.
POPE, MARY RITCHIE	V.	'03	Academy Hill, Brighton, Mass.
POPE, ROBERT ANDERSON	IV.	S.	104 High St., Newburyp't, Mass.
PORTER, JOHN LEWIS	II.	'00	15 Quincy St., N. Adams, Mass.
PORTER, STANLEY LESTER	XIII.	'03	106 Oak St., Middleboro' Mass.
POTTER, ABRAHAM	VI.	'03	Vilno, Russia.
POTTER, PHILIP ARTHUR	II.	'01	70 Sherman St., Sp'ngf'ld, Mass.
POTTER, SARA EMELINE	VII.	S.	42 Rockview St., Jam. Pl., Mass.
POTTLE, GEORGE VALENTINE	IV.	S.	155 Maple St., Dayton, Ohio.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
PREBLE, HELEN THERESA . . .	IX.	S.	179 Trenton St., E. Boston, Mass.
PRICE, PAUL LEON, PHM. . .	IV.	'00	32 Union Park, Boston, Mass.
PROCTOR, REDFIELD, JR., Δ. T. . .	II.	'02	Proctor, Vt.
PROULX, ELZEAR JOSEPH, Φ. Γ. Δ. . .	I.	'81	270 Walnut St., Holyoke, Mass.
PUCKEY, FRANCIS WILLARD . . .	IV.	'01	111 N. Franklin St., W. Barre P.O.
PULSIFER, HARRIE BRIDGMAN . . .	V.	'03	Lebanon, N. H.
PUTNAM, HARRY AMES . . .	VI.	S.	24 Soley St., Charlestown, Mass.
PUTNAM, JAMES RUSSELL . . .	II.	'01	16 Elmore St., N'wt'n Cent., Mass.
RAND, WILLIAM PROUDMAN . . .	IV.	'00	54 Lowell St., Peabody, Mass.
RANDALL, FRED CHESLEY . . .	VI.	'02	12 Pearl St., Woodfords, Me.
RAPP, LOUIS BALLAUF, Δ. T. . .	III.	'03	1339 Chapel St., Cincinnati, O.
RAPP, WALTER LOUIS, Δ. T. . .	IV.	'00	1339 Chapel St., Cincinnati, O.
RASH, FRANK DILLMAN, A.B. . .	III.	'01	Earlington, Ky.
RATHBUN, ELEANOR PACKER . . .	VII.	'02	449 Mass. Ave., Boston, Mass.
RAYMOND, HERBERT EMMONS . . .	XIII.	'02	84 Ellery St., Cambridge, Mass.
READ, WALTER AUGUSTINE . . .	XIII.	'01	24 St. Stephen St., Boston, Mass.
REDMAN, ARVILLE C. . .	I.	'00	P. O. Box 694, Belfast, Me.
REED, FRANKLIN HOLMES . . .	VI.	'02	Canton, Mass.
REED, RUFUS COOK . . .	III.	'03	55 Lime St., Newburyport, Mass.
REGAN, JOHN WARD . . .	II.	'03	49 Winchester St., Boston, Mass.
REGESTEIN, WALTER PHILIP . . .	V.	'03	92 Wyman St., Jamaica Pl., Mass.
REID, JOSIAH ELNATHAN . . .	II.	'03	173 Lexingt'n St., E. Boston, Mass.
REID, WALTER DAVID . . .	III.	'03	19 Roslin St., Boston, Mass.
REIMER, ARTHUR ADAMS . . .	I.	'00	28 N. Maple St., E. Orange, N. J.
REYNOLDS, DAVID SOLOMON . . .	II.	'03	Wesley Mt., Williamsfield P.O., Ja.
REYNOLDS, IRVING WOOD . . .	VI.	'01	254 Main St., Brockton, Mass.
RICE, ARTHUR PARKMAN . . .	I.	'03	48 Congress St., Chelsea, Mass.
RICE, PHILIP BENARD . . .	VI.	'03	8 Summer St., Stamford, Conn.
RICE, WINTHROP MERTON . . .	XIII.	S.	8 Summer St., Stamford, Conn.
RICHARDSON, CHESTER AUGUSTUS . . .	I.	'00	Pelham, N. H.
RICHARDSON, CLINTON LEROY . . .	I.	'00	131 Forest St., Winchester, Mass.
RICHARDSON, JAMES HERBERT . . .	I.	'00	109 Highl'd Ave., Newtn'le, Mass.
RICHARDSON, ROBERT LOGAN . . .	II.	S.	Concord, Mass.
RICKER, ELMER FRANCIS . . .	IV.	'03	6 Bigelow St., Quincy, Mass.
RIDDELL, GUY CROSBY . . .	III.	'03	251 Central St., Auburn'd'le, Mass.
RILEY, FRANK MORRIS, C.E. . .	IV.	S.	Madison, Wis.
RILEY, JAMES GARFIELD . . .	V.	'03	Fiske St., Waltham, Mass.
RIPLEY, PHILIP FRANKLIN, A.B. . .	V.	'00	48 Central St., Andover, Mass.
RITCHIE, ANDREW ELIOT, Δ. Ψ. . .	II.	S.	268 Walnut St., Brookline, Mass.
ROBBINS, EDWIN T., B.A. . .	XIII.	'01	66 Lexington Ave., Columbus, O.
ROBBINS, FRANK AMBROSE, JR. . .	II.	'02	91 Appleton Ave., Pittsf'd, Mass.
ROBERTS, ROBERT PARKER . . .	III.	'00	42 Quincy St., Roxbury, Mass.
ROBERTSON, WINFRED FRANKLIN . . .	X.	'03	Hinsdale, N. H.
ROBINSON, JOHN ALBERT . . .	X.	S.	Canton, Mass.
ROBINSON, RALPH CHANDLER . . .	V.	'01	North Andover, Mass.
ROBINSON, SAMUEL . . .	V.	'03	47 Allen St., Lawrence, Mass.
ROGERS, GARDNER, Δ. T. . .	VI.	'02	601 Boylston St., Boston, Mass.
ROGERS, GEORGE DENNISON . . .	VI.	'02	109 Prospect St., Gloucester, Mass.
ROGERS, RUTHERFORD HAYES, X. Φ., . .	VI.	'03	188 E. State St., Columbus, Ohio.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
ROOT, FRANKLIN TINKER, A. T.	X.	S.	100 Harrison St., E. Orange, N. J.
ROOT, RALPH, A. T.	III.	S.	100 Harrison St., E. Orange, N. J.
ROPER, WALTER FREDERIC	II.	S.	Hopedale, Mass.
ROSS, JOHN ALEXANDER, JR.	XIII.	'01	Hampton, N. H.
ROSSMASSLER, CARL	XIII.	S.	607 Church Lane, Germantown, Pa.
ROTT, WALTER CHRISTIAN	II.	'03	4728 Wallingford St., Pittsburg, Pa.
ROWE, ALLAN WINTER	X.	'01	194 Hunt'gton Ave., Boston, Mass.
RUSSELL, GEORGE EDMOND	I.	'00	P. O. Box 337, Woburn, Mass.
RUXTON, EDWARD JAMES	II.	'03	Ludlow, Mass.
ST. CLAIR, SAMUEL WINTHROP	IV.	'01	East Milton, Mass.
SAMMET, CHARLES FRANK	V.	'03	73 Sheridan St., Jam. Pl., Mass.
SAMMET, GEORGE VICTOR	V.	'01	73 Sheridan St., Jam. Pl., Mass.
SANDERS, WARREN WILLARD	V.	'00	62 Parker St., Gardner, Mass.
SAWYER, ARTHUR HAROLD, F. T. A.	III.	'02	3 Brantwood Rd., Arlington, Mass.
SAWYER, CHARLES ADRIAN, JR., F. B. E.	III.	'02	1640 Indiana Ave., Chicago, Ill.
SAWYER, HOUGHTON	IV.	S.	San Francisco, Cal.
SAYLOR, HENRY HODGMAN, A. K. E.	IV.	'02	351 King St., Pottstown, Pa.
SAYWARD, WILLIAM JAMES, B.S.	IV.	'01	Woodstock, Vt.
SCHERRER, HERMAN ADOLPH	IV.	'03	713 Union St., Indianapolis, Ind.
SCHLEISINGER, BART ERNEST, A.B.	V.	S.	Warren St., Brookline, Mass.
SCHLEMM, LEONARD ERNEST	I.	S.	Brookline, Mass.
SCHMIDT, ALBERT GEORGE ANTON	II.	'00	1537 Oakdale Ave., Chicago, Ill.
SCHMIDT, CASPER ANTHONY	I.	'03	458 Hastings St., Detroit, Mich.
SCHNELLER, GEORGE OTTO, X. F.	II.	'00	103 So. Cliff St., Ansonia, Conn.
SCHWARTZ, AARON	XIII.	'02	10 Wall St., Boston, Mass.
SCOFIELD, EDWARD CANDEE	I.	'03	62 Sound View Av., Stamford, Conn.
SCOTT, WALTER	II.	'00	25 Bedford St., Lawrence, Mass.
SCUDDER, HEYWARD, B.A., S.B.	V.	S.	The Ludlow, Boston, Mass.
SCUDDER, OLIVER PORTER	XIII.	'03	60 Wyman St., Brockton, Mass.
SCULLY, JOHN TIMOTHY, JR.	I.	'01	973 Mass. Ave., Cambridge, Mass.
SEABURY, GEORGE TILLEY, A. T.	I.	'02	16 Mann Ave., Newport, R. I.
SEARLE, LEWEN FIRTH	I.	'00	83 May St., Lawrence, Mass.
SEARS, STANLEY COLLAMORE, A. T.	III.	'00	Winthrop, Mass.
SEARS, THOMAS EVERETT	II.	'03	123 Court St., Plymouth.
SEARS, WALTON HARVEY	II.	'02	8 Irving St., Arlington, Mass.
SEAYER, EDWARD, JR.	II.	'01	22 Westminster Ave., Rox., Mass.
SEAYER, KENNETH	I.	'00	Woodstock, Vt.
SEXTON, FREDERIC HENRY	III.	'01	Billerica, Mass.
SEXTON, WALTER HOWARD	X.	'03	293 Medford St., Somerville, Mass.
SEYMS, GEORGE BEACH, A. T.	II.	'03	181 Collins St., Hartford, Conn.
SHAPLEY, HENRY TILTON	X.	'00	82 Orchard St., Leominster, Mass.
SHAW, GEORGE HERBERT	X.	'03	Belmont, Mass.
SHEAFE, JAMES SMITH	II.	'03	Queen Anne Ave., Seattle, Wash.
SHEDD, CHARLES LEVI	I.	S.	Portsmouth, N. H.
SHERMAN, CHARLES EDWIN, A. T.	IV.	'00	46 Granite St., Westerly, R. I.
SHERMAN, FRANK ARNOLD	III.	'03	46 Granite St., Westerly, R. I.
SHERMAN, FREDERIC LYMAN	I.	S.	126 Main St., W. Springfield, Mass.
SHERMAN, HERBERT LESLIE	V.	'02	19 Wendell St., Cambridge, Mass.
SHIVERS, CLIFFORD HOPKINS	IV.	'01	Woodbury, N. J.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
SHORES, HERBERT LEIGHTON . . .	II.	S.	Rockland, Mass.
SHUMAKER, LOUIS WILLIAM . . .	VI.	S.	Ortonville, Minn.
SHUTE, GEORGE PERCIVAL . . .	X.	'01	41 Everett St., Malden, Mass.
SILVERMAN, MORTIMER . . .	VI.	'00	1316 Locust St., Allegheny, Pa.
SIMONDS, ROLAND EMERSON . . .	II.	'01	16 Vine St., Winchester, Mass.
SIMPSON, HORACE GARDNER . . .	IV.	'03	22 Chestnut St., Chelsea, Mass.
SIMPSON, ROBERT COFFIN . . .	XIII.	'00	22 Chestnut St., Chelsea, Mass.
SIMPSON, WALTER HENRY . . .	XIII.	'02	118 White St., E. Boston, Mass.
SISSON, CHARLES HAMILTON . . .	III.	'02	Langham Hotel, Boston, Mass.
SKENE, NORMAN LOCKE . . .	XIII.	'01	58 Copeland St., Roxbury, Mass.
SKOWRONSKI, STANISLAUS . . .	X.	'03	102 Walnut Ave., Revere, Mass.
SMITH, CHARLES ALFRED, A. K. E. . .	III.	'02	Oconto, Wis.
SMITH, CHARLES EDWARD . . .	I.	'00	261 Wash. St., Somerville, Mass.
SMITH, CHARLES JOHN . . .	VI.	'03	49 Burroughs St., Jamaica Plain, Mass.
SMITH, DANIEL ARTHUR, JR. . .	VI.	'03	29 Mary St., Newport, R. I.
SMITH, FRANK ARTHUR . . .	II.	S.	18 Orange St., Newburyp't, Mass.
SMITH, FRANCIS FAY HILL, A. T. A. . .	II.	S.	Jamaica Plain, Mass.
SMITH, FREDERICK W., B.A. . .	I.	'01	4 East Biddle St., Baltimore, Md.
SMITH, HERBERT BOWEN . . .	II.	'03	17 First Ave., Waterbury, Conn.
SMITH, JAMES WOODBERRY . . .	I.	'02	Lexington, Mass.
SMITH, JOHN MONROE . . .	I.	'03	Iwona, Pa.
SMITH, LAWRENCE SOUTHWICK . . .	II.	'00	136 Lowell St., Peabody, Mass.
SMITH, LILLIE COLLAMORE . . .	V.	S.	Newtownville, Mass.
SMITH, LOWELL ELDRIDGE . . .	III.	'03	187 Chestnut St., Chelsea, Mass.
SMITH, PHILIP REEDER, X. Φ. . .	II.	S.	2316 Grand Ave., Milwaukee, Wis.
SMITH, SUMNER IVES . . .	VI.	'00	Elkhart, Indiana.
SMITH, WALTER ABBE . . .	IV.	'03	185 State St., Springfield, Mass.
SMITHWICK, HAROLD . . .	II.	'00	Newcastle, Maine.
SNOW, FREDERICK WILLIS . . .	III.	'00	565 Essex St., Lynn, Mass.
SOHIER, LOUIS AMORY, A. T. A. . .	II.	S.	Concord, Mass.
SOHIER, WALTER, A. T. A. . .	II.	S.	Concord, Mass.
SOLOMON, BENJAMIN DAVID . . .	VI.	'03	681 Shawmut Ave., Boston, Mass.
SOUTHWICK, GEORGE SCUDDER . . .	II.	S.	353 Columbus Ave., Boston, Mass.
SOUTHWORTH, FREDERIC WILLARD . .	IV.	'00	West Stoughton, Mass.
SPALDING, GEORGE RIDDELL . . .	V.	'03	7 Brown St., Newburyport, Mass.
SPEAR, GEORGE MORTON . . .	XIII.	S.	576 Westford St., Lowell, Mass.
SPERRY, MARCY LEAVENWORTH, A. Ψ. .	II.	'00	17 Monroe Pl., Brooklyn, N. Y.
SPRAGUE, NATHANIEL, JR. . .	VI.	'02	Lanesville, Mass.
STADLER, LOUIS ANDREW, E. A. E. . .	III.	S.	418 Lawrence St., Helena, Mont.
STANHOPE, WILLIAM EDWARD . . .	VI.	'03	14 Broadway, Newport, R. I.
STARR, CLARENCE DOUGLASS . . .	II.	'02	16 Richards St., New London, Ct.
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WILSON, ALICE VIRGINIA, V., '00	Regular.



In Memoriam.



Professor Silas W. Holman.

Born January 20, 1856. Died April 1, 1900.

Harry Pollard Long.

Born August 1, 1879. Died May 22, 1899.

George Harris Woodbury.

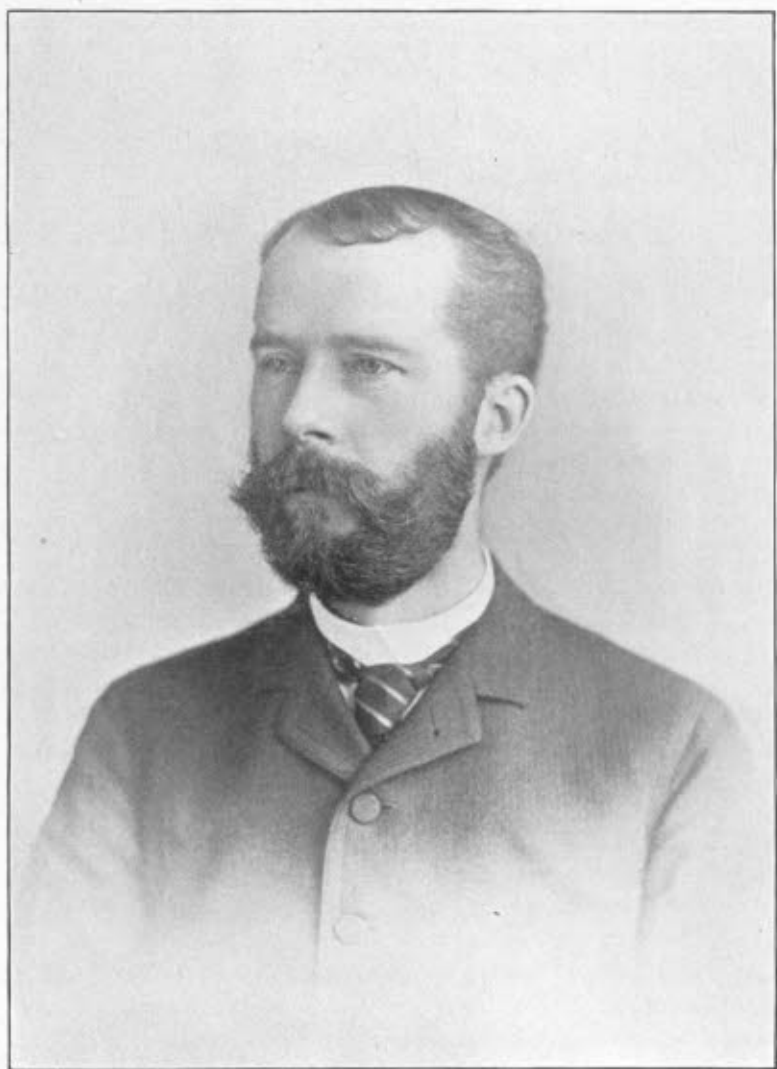
Died September 6, 1899.

Robert Emmett Oppenheim.

Born February 15, 1879. Died December 9, 1899.

Edgar Blake Allen.

Born March 14, 1879. Died January 16, 1900.



SILAS W. HOLMAN.

SILAS W. HOLMAN.



On the first of April the many friends of Professor Silas W. Holman learned with sorrow that he had passed away at his home in Brookline. In his death the Institute mourns the loss of one of its most eminent scholars and one of its most faithful and beloved teachers. As he was compelled by the inevitable progress of a painful malady to relinquish active work at the Institute since 1896, the present student body has been deprived of the instruction and personal acquaintance of a man the memory of whose charming personality and teaching will long remain an inspiration to those who have had the good fortune to be his students.

Professor Holman was born in Harvard, Massachusetts, January 20, 1856. His boyhood was spent in Cambridge where he attended the public schools. He graduated from the Institute with the Class of '76 in the course of Physics, and was at once made assistant in the Physical Laboratory, although ill health prevented his assuming his duties in the Department until a year later. In 1880 he was made instructor, and two years later was appointed to the Faculty, of which he remained an active member until his enforced retirement in 1896, when he was made Professor Emeritus.

The unusual ability which Professor Holman possessed for experimental work was manifested and recognized while he was a student. His graduation thesis itself was an investigation of a high order, and was the first of a series of publications which secured for him a recognized place among the best original investigators of the country. Research was his delight, but the enthusiasm with which he undertook a new problem was no less genuine than that which he brought to bear on all his laboratory instruction, and this contributed much to the successful building up and development of the laboratory of general physics and later of those of electrical and heat measurements, which were largely his own creation. The high standard which he required in all work, and his rare powers of judicious discrimination, are to be seen in his Laboratory Notes and text-books, notably in his "Precision of Measurements" (now used by the Institute classes).

He was never of a robust constitution, and his Institute work was first

interrupted by failing health in the spring of 1891; during the following winter he was granted a year's leave of absence, which was spent abroad. The benefit which resulted from this needed rest proved only temporary, however, and during the next few years he carried on his work with a heroism little short of marvelous. Finally the progress of a disease which baffled the highest medical skill confined him to his room; but even then his undaunted courage never failed. Under conditions which would have overwhelmed most men he continued his literary work, and even after eyesight had failed him, he prepared and published in 1898 a valuable philosophical work on "Matter, Energy, Force and Work," which may well be said to stand as a remarkable example of the power of Mind over Matter. During all this period his patience, fortitude, and uniform cheerfulness were the wonder and admiration of a large circle of loyal friends, while his unusually clear and unbiased judgment, together with his interest in the progress of his beloved science and in all that concerned the best interests of Technology, made his advice and counsel eagerly sought by his colleagues up to the very last. The name of Silas W. Holman will long stand for all that is noble, heroic, kind, and true; and the influence of his teaching and example will long be felt in the institution to which he devoted the best energies of his life.





*"That when the reader recollects any incident
he may easily find it."*

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To 1901.

'Tis ended, now —

The dance is o'er ;

How like you our endeavor ?

Has clouded brow

Become once more

As smooth and clear as ever ?

Have you enjoyed

Our pleasure-play ?

Can something here bewitch you ?

Have we employed

In fitting way

Our coinage to enrich you ?

To us is due

The fate or fame ;

The Pain or Joy exquisite :

What offer you

In Praise or Blame ?

Your verdict, sirs ; — what is it ?

FINIS.



St. C.

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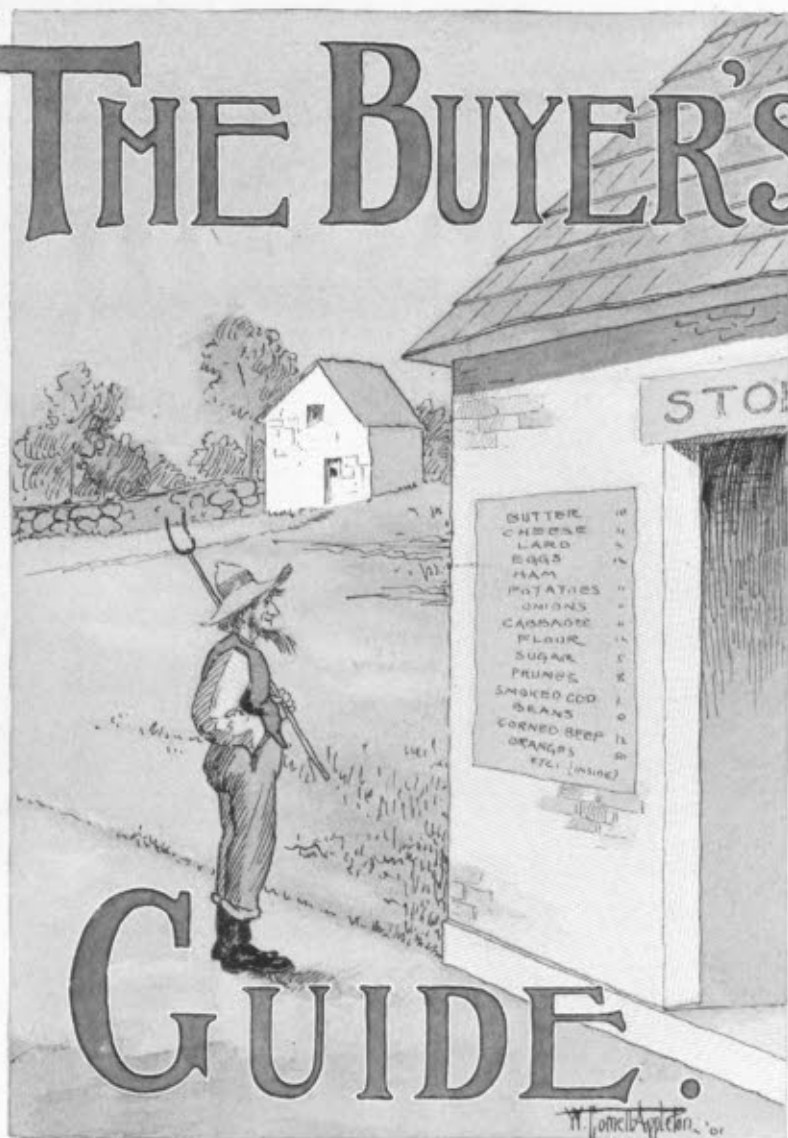
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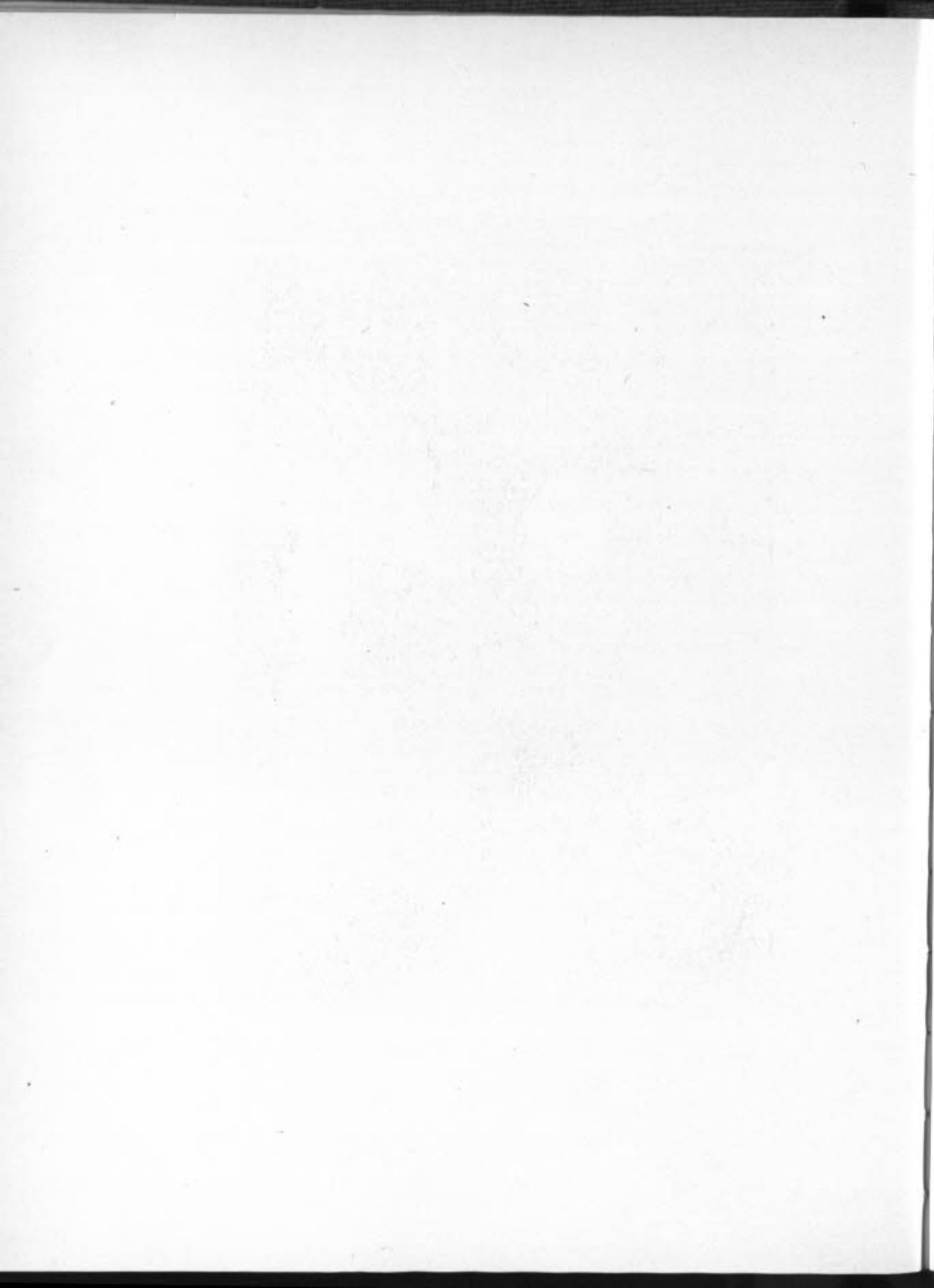
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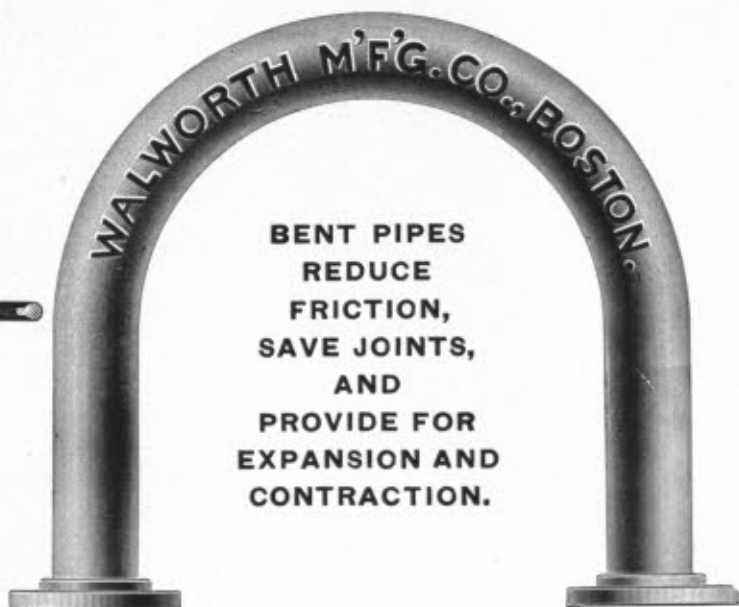
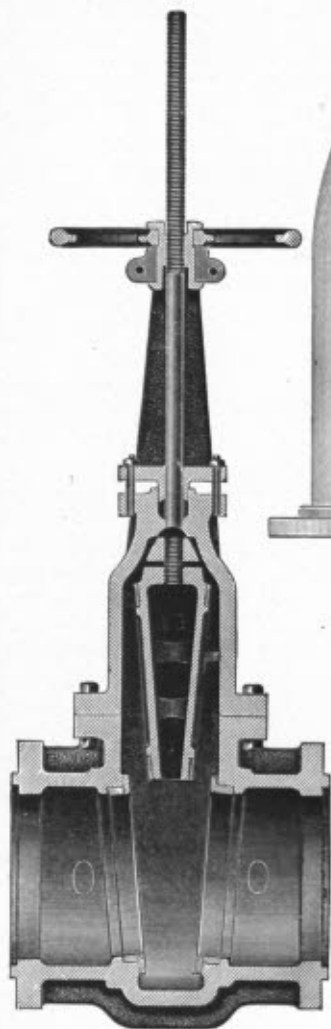
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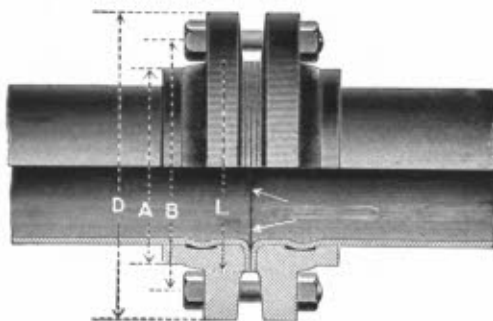
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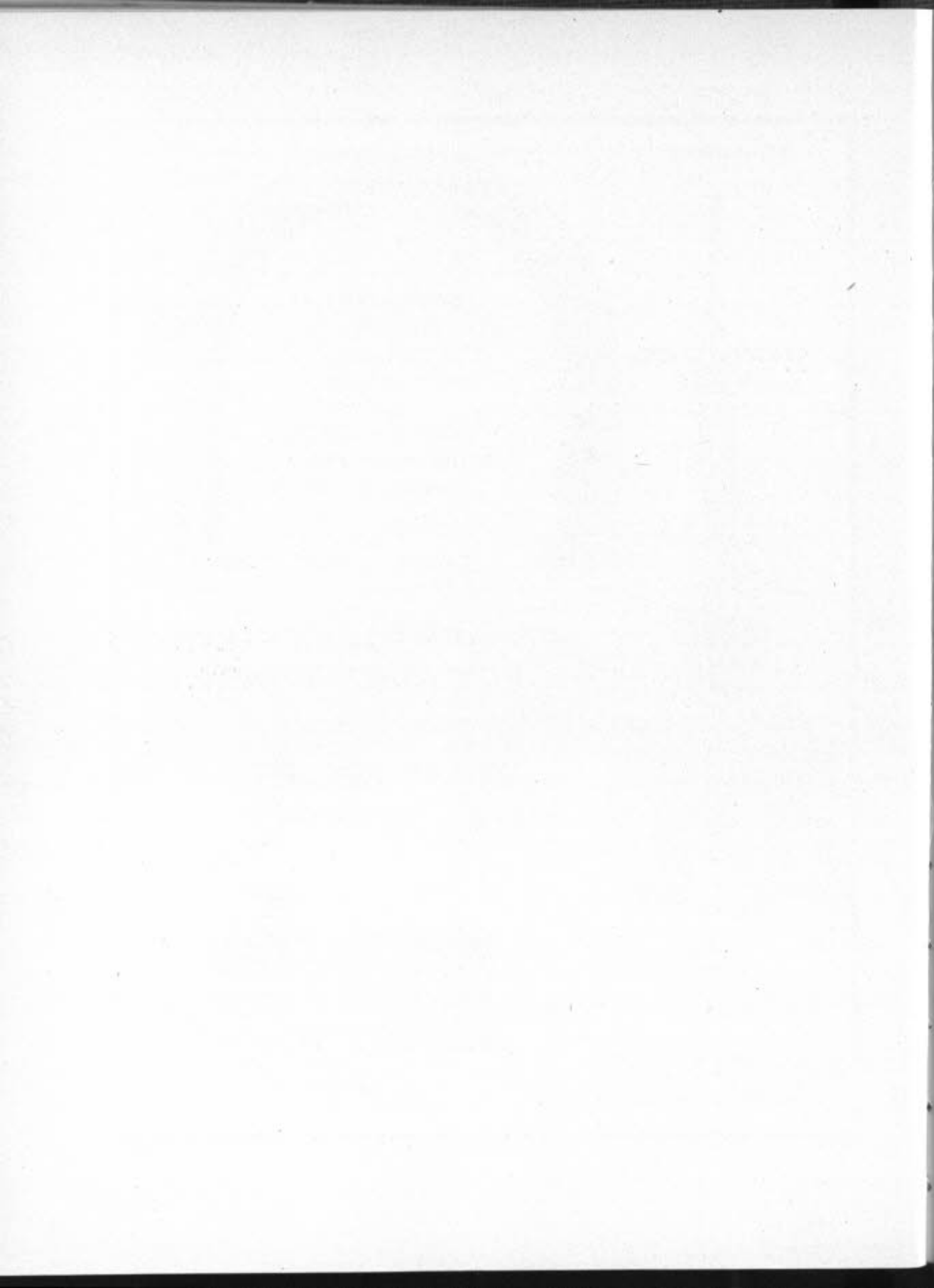
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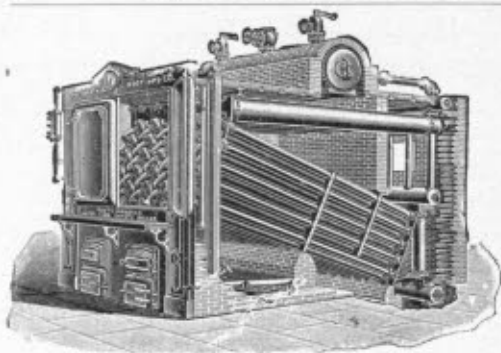
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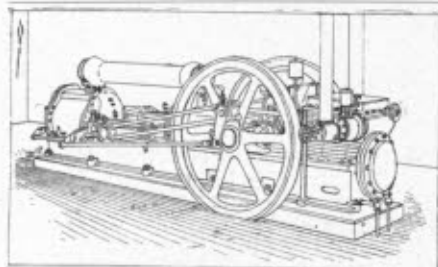
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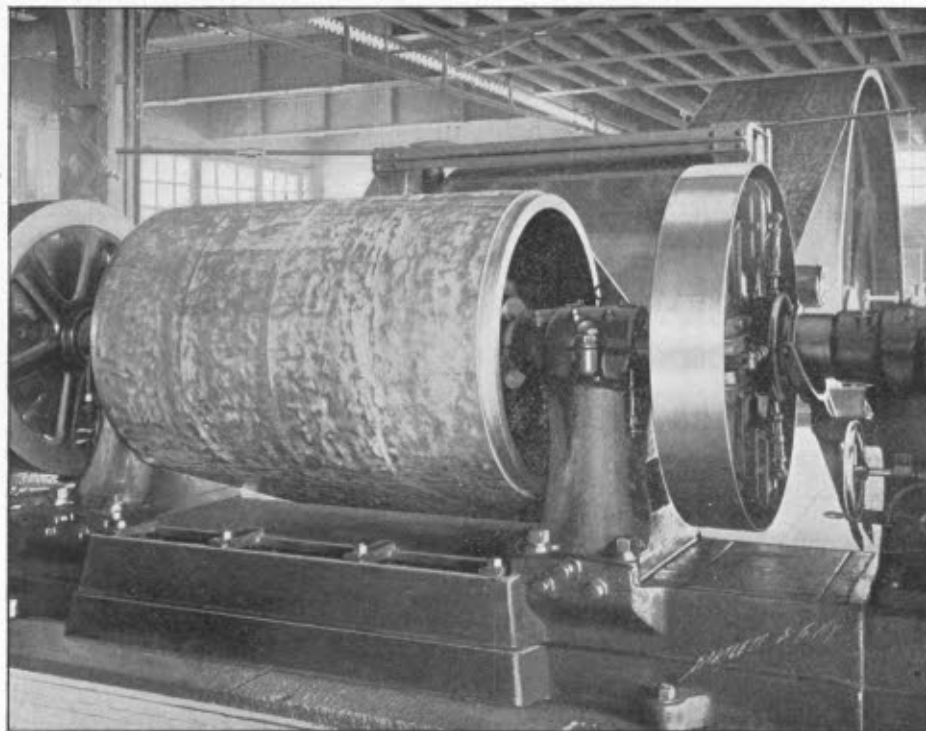
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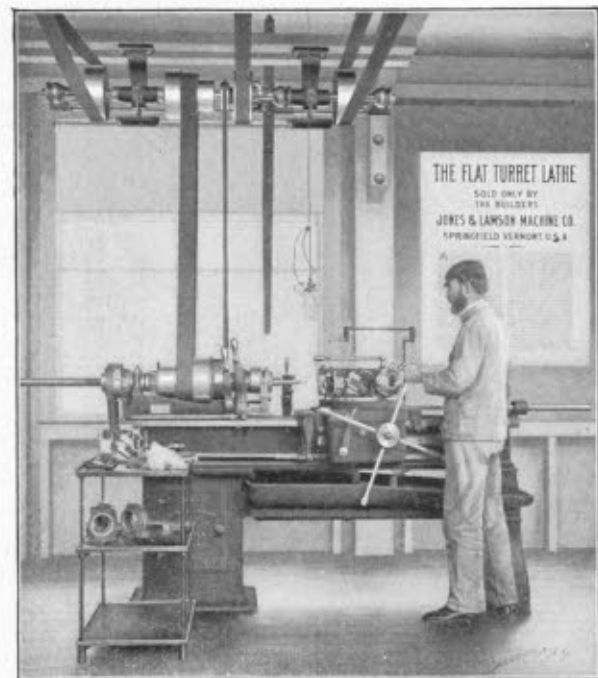
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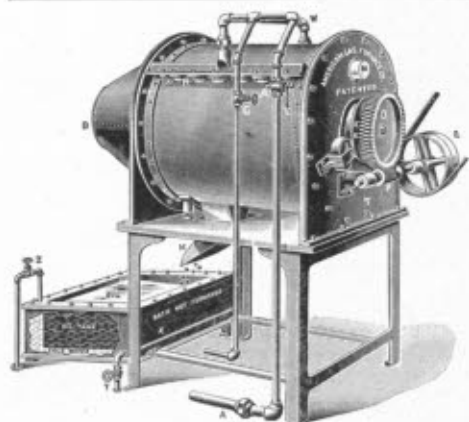
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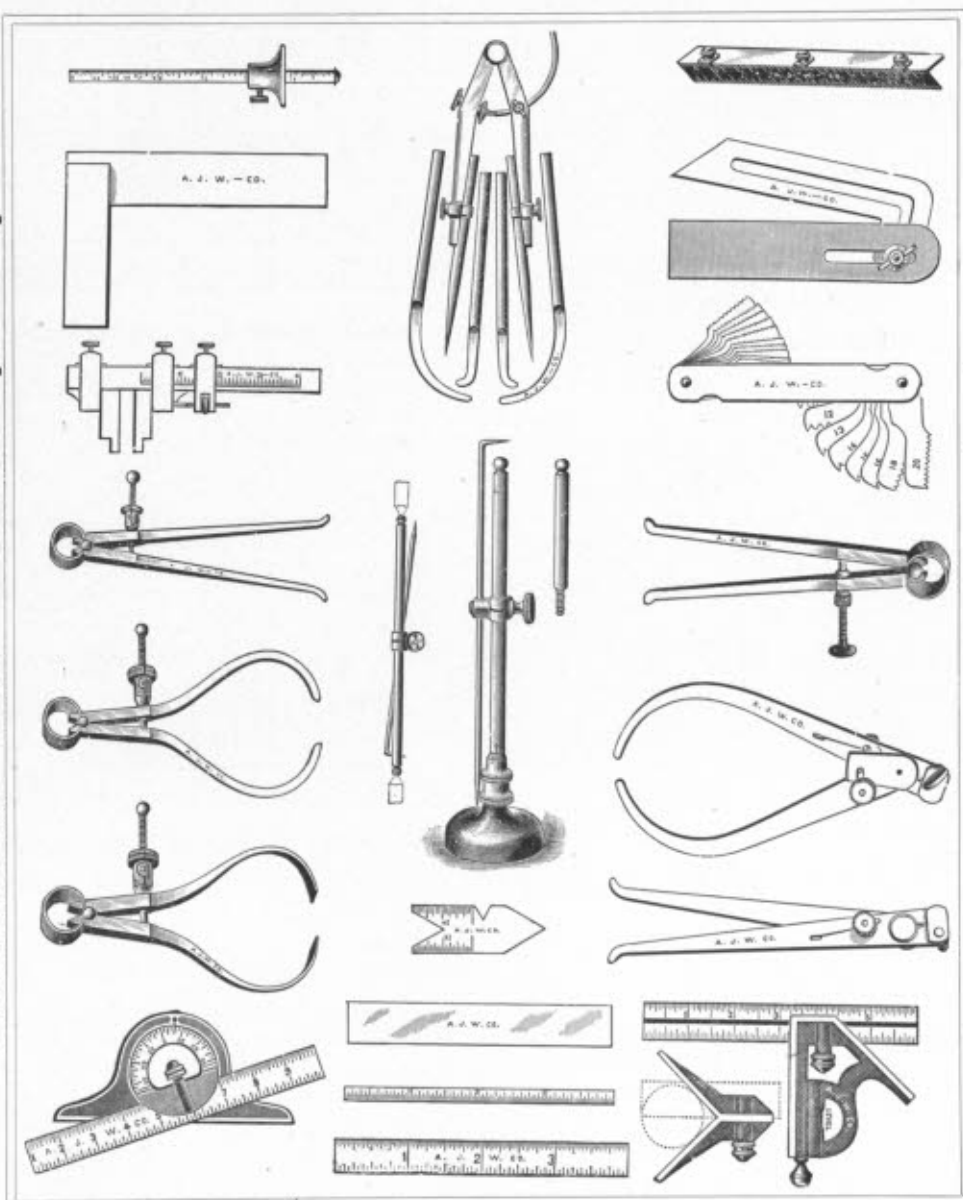
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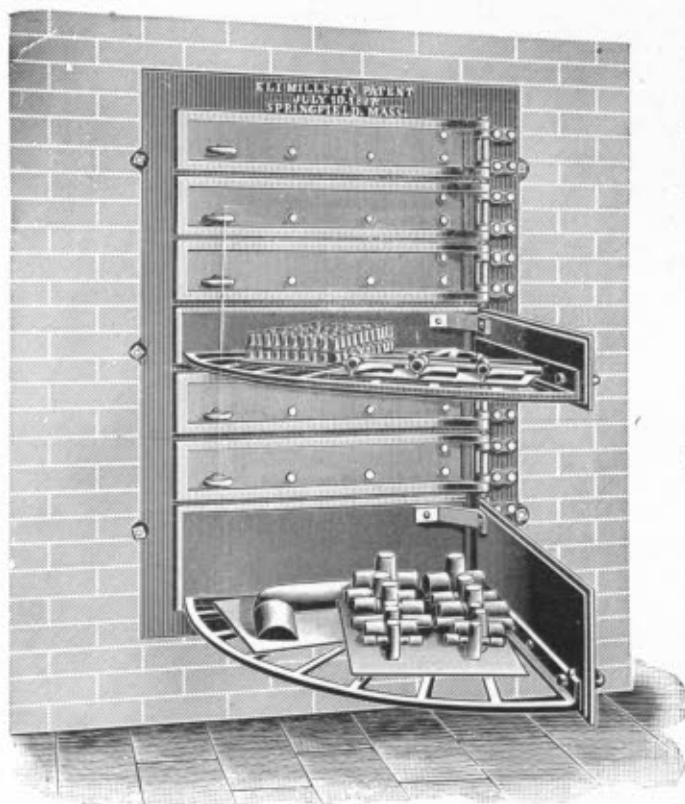
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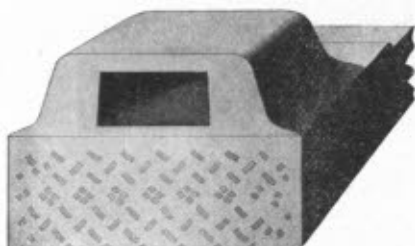
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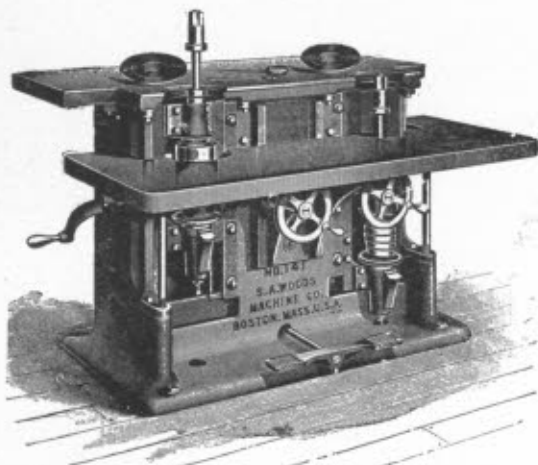
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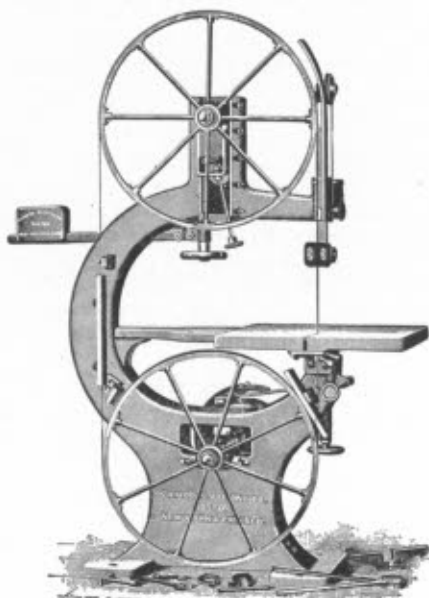


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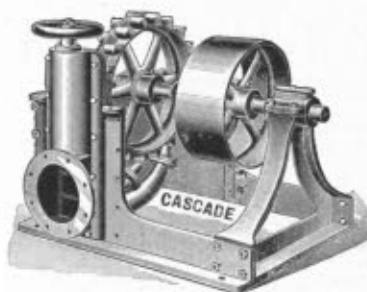
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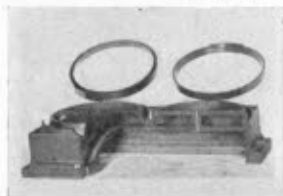
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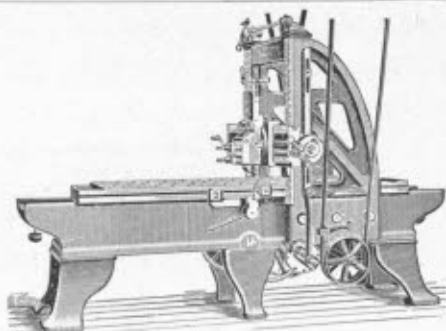
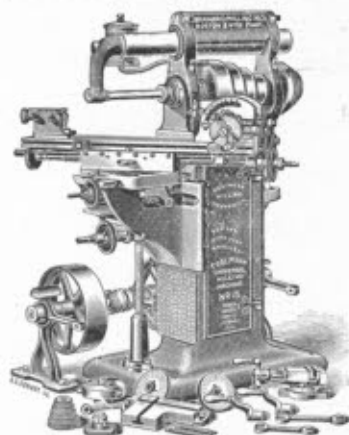
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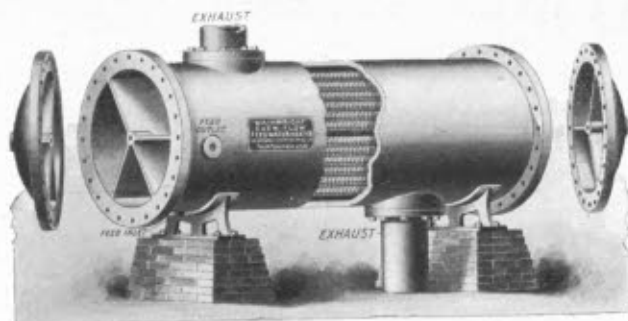
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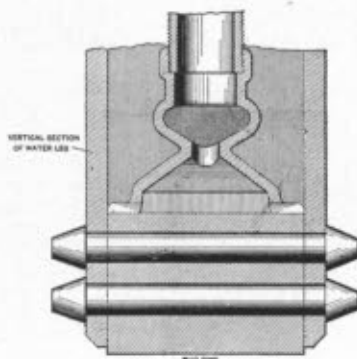
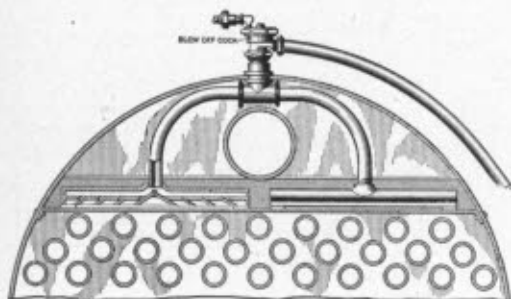
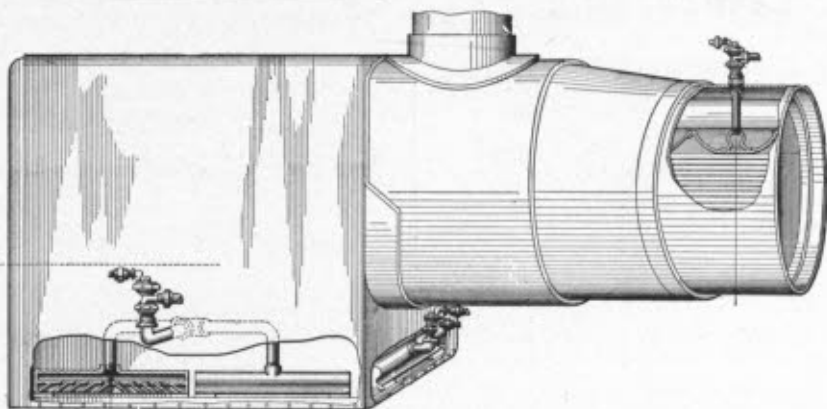
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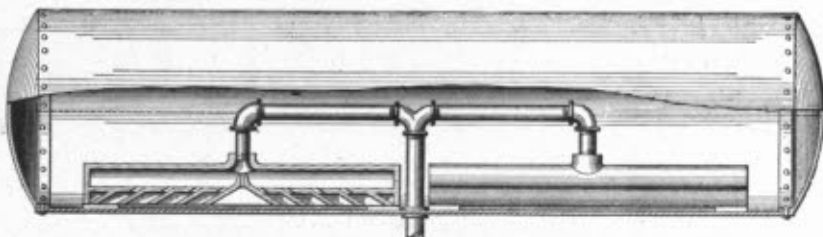


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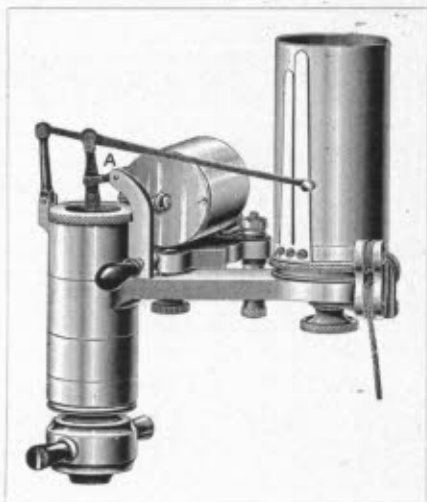
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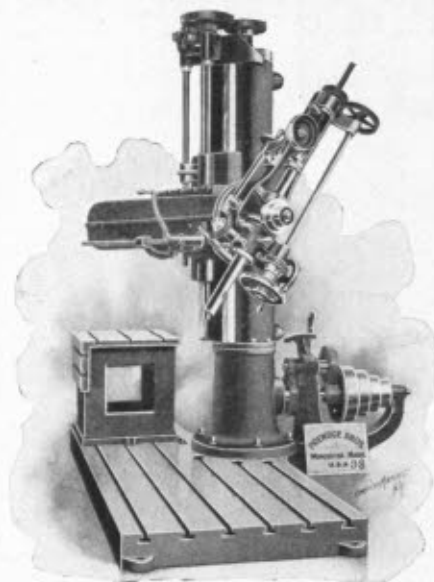
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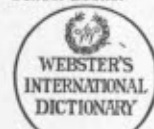
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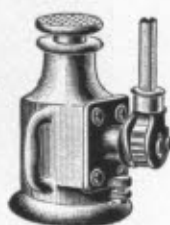
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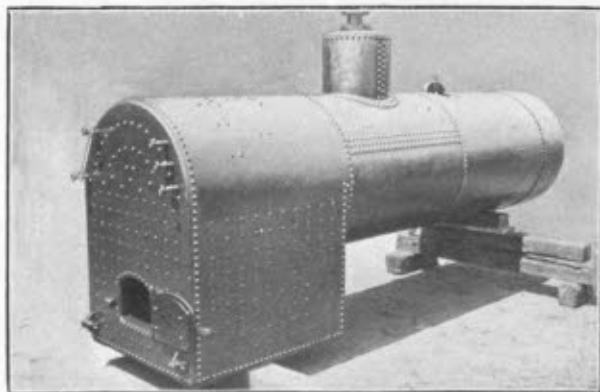
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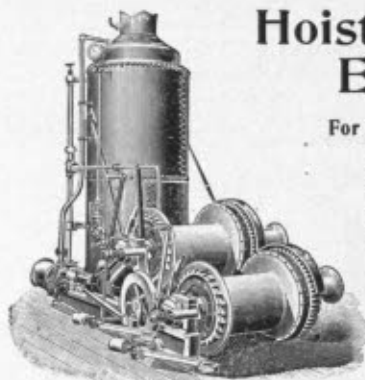
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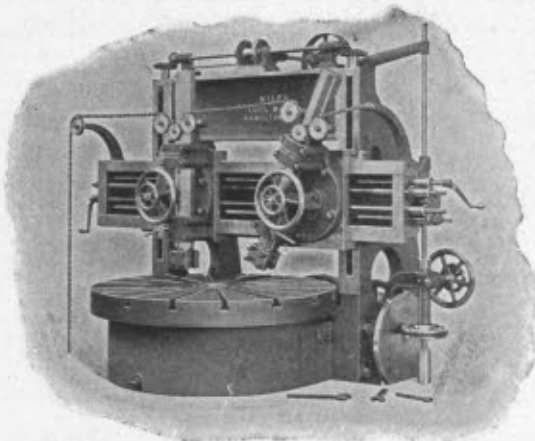
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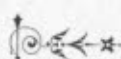
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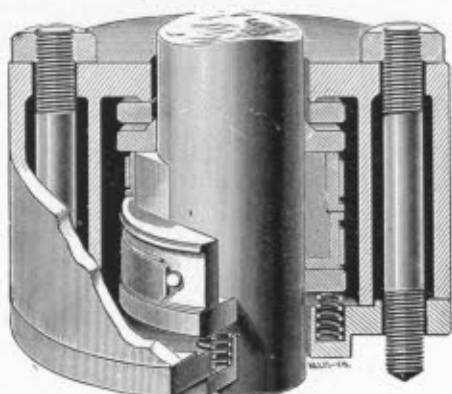
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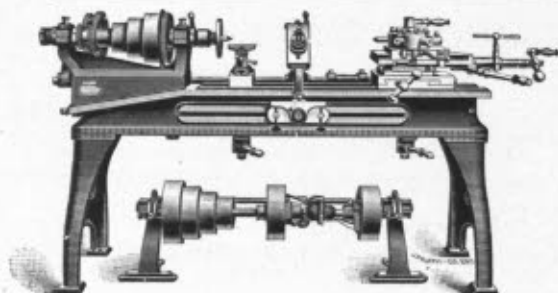
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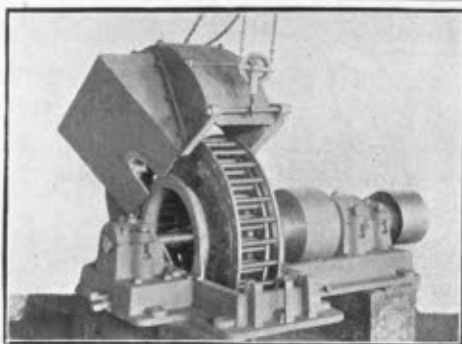
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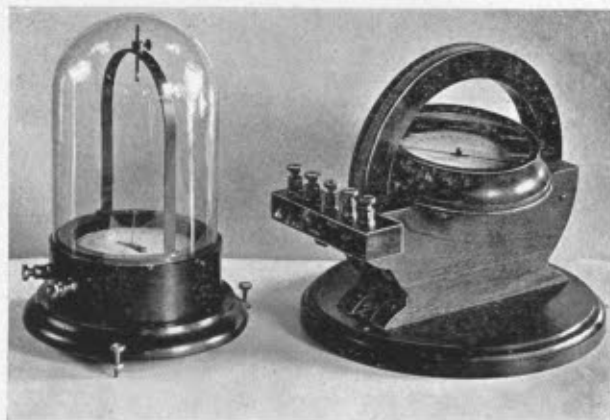
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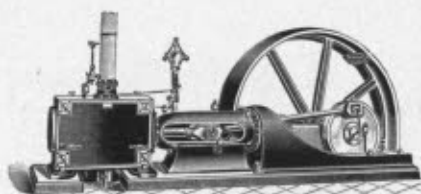
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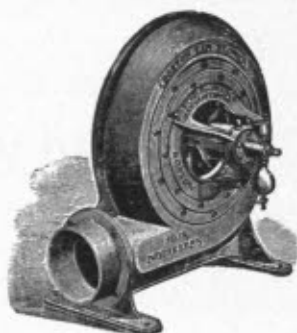
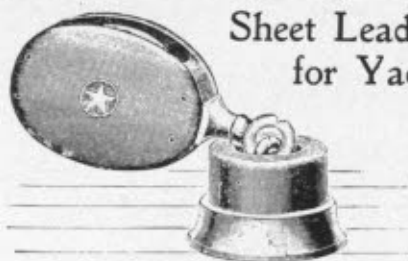
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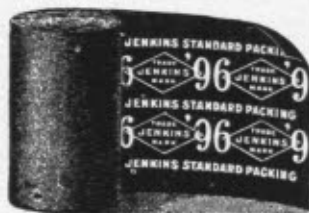
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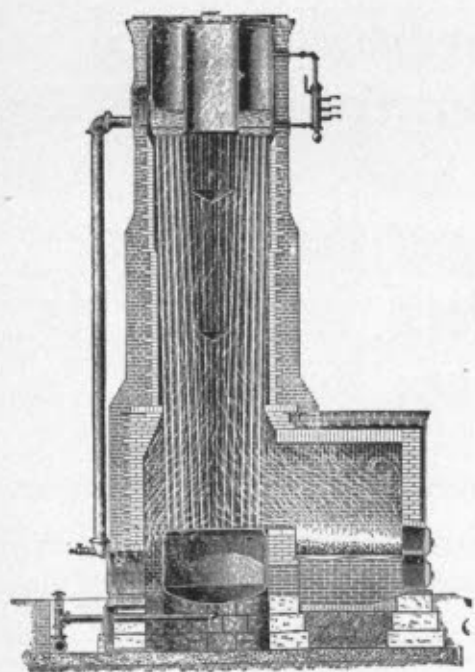
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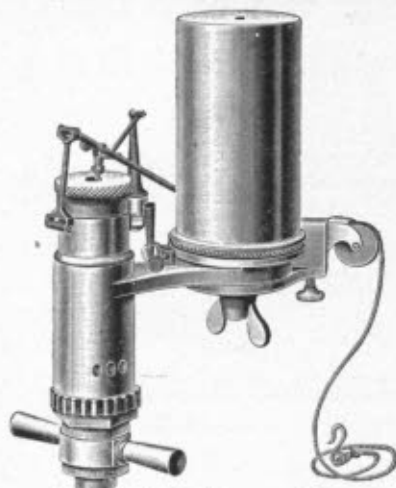
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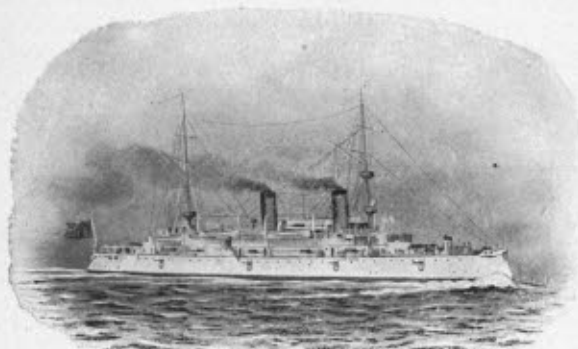
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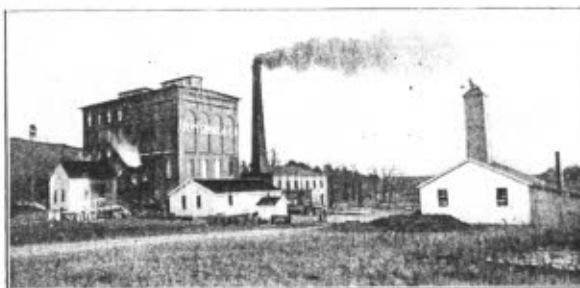


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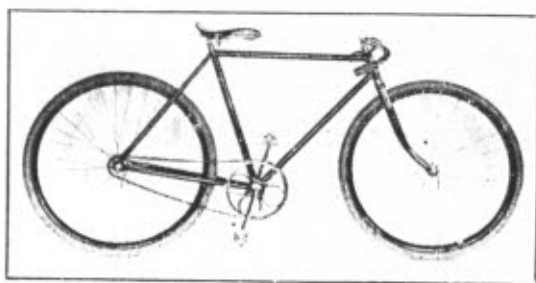
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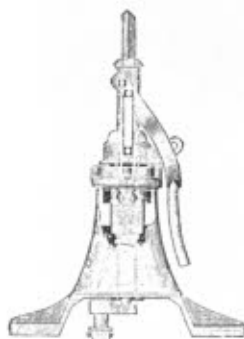
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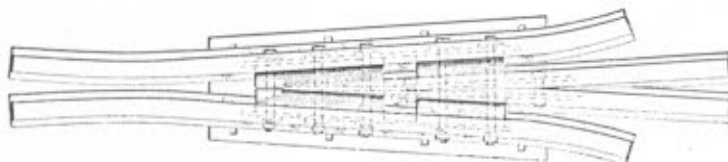
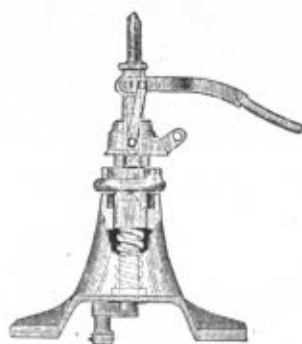
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