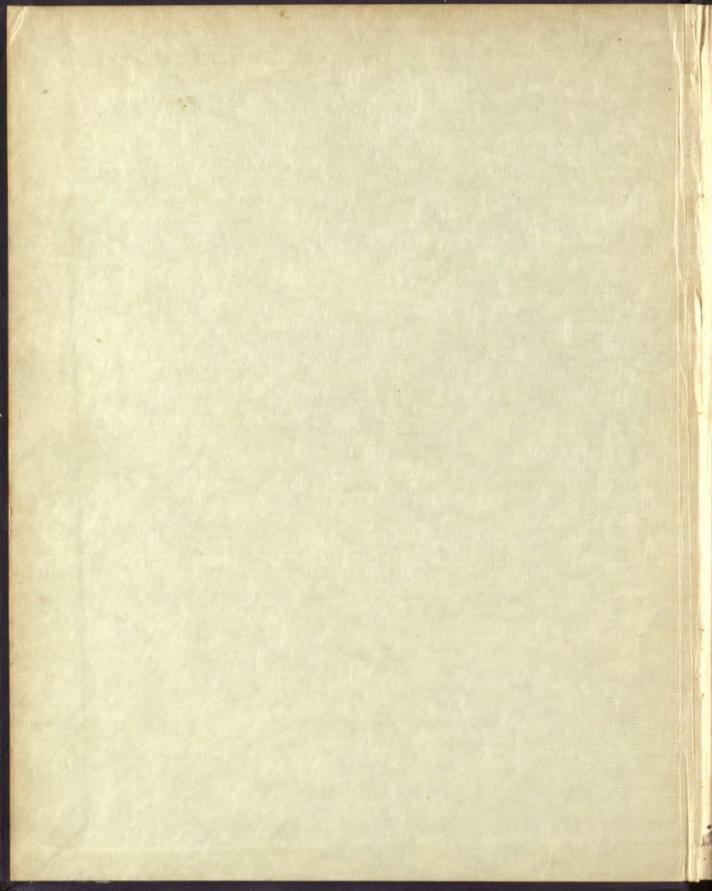
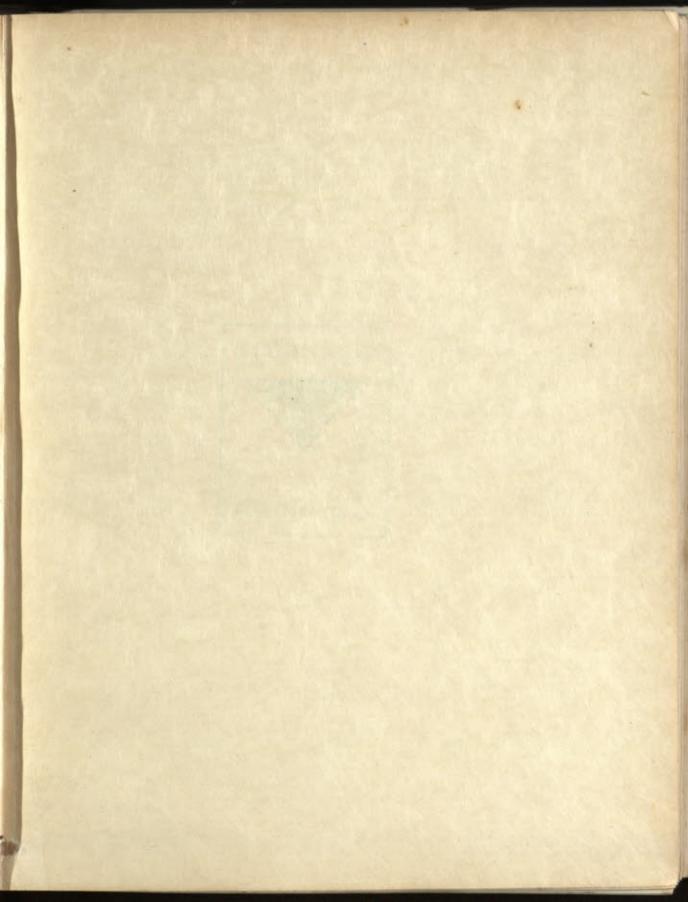
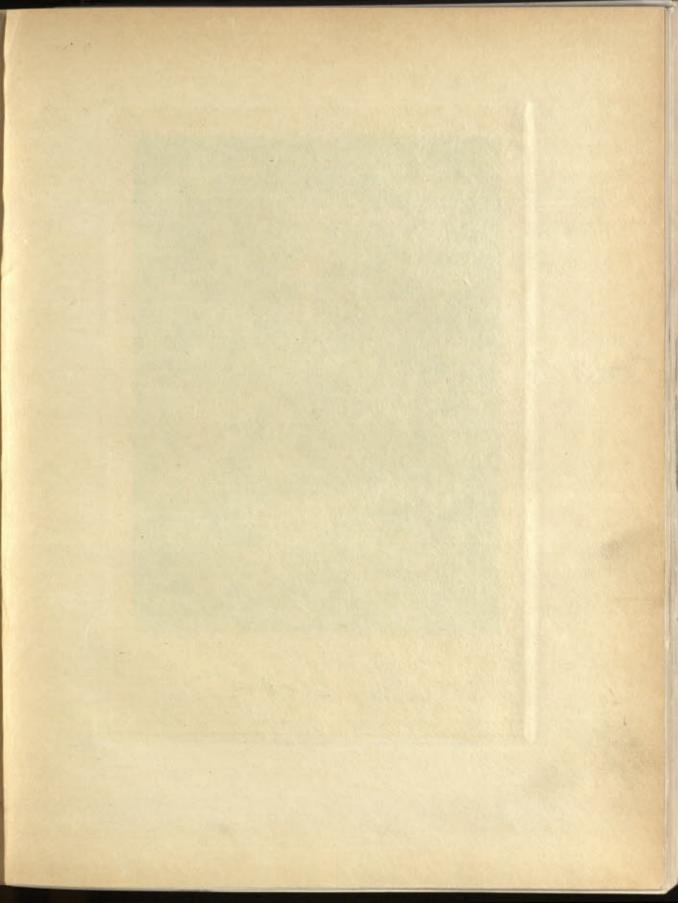
TECHNIQUE





To SAMUEL CABOT A LOYAL SON OF THE INSTITUTE AND A TYPE OF THE TRUE TECH MAN this VOLUME is DEDICATED





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TECHNIQUE 1905

The YEAR BOOK

19 JUN 1936

OF THE

Massachusetts Institute of Technology

POR THE CLASS of 1905

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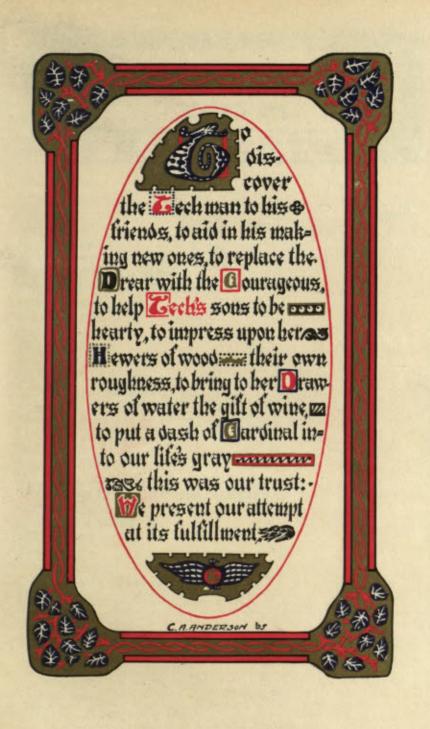
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1903

April

- 11 Freshman Class Meeting.
- 13 1905 Class Meeting.
- 24 Class Games on New Athletic Field. Sophomore Class Dinner.
- 25 Finals in Class Games at Soldiers Field.
- 28 Exercises suspended. "A Scientific King;" dress rehearsal at Hollis Street Theatre.
- 29 Annual Spring Concert and Dance of Musical Clubs at New Century Building. Freshman Competitive Drill at South Armory.
- 30 TECHNIQUE 1904, Vol. XIX, issued; the Tech Tea in Tech office.
 Junior Promenade at Hotel Tuilleries.

may

- Exercises suspended. Tech show, "A Scientic King," at Hollis Street Theatre. Tech Show Dinner at Tech Union.
- 7 Interscholastic Championship Drill at South Armory.
- 9 1906 Class Meeting. Dual Meet. M. I. T. vs. Dartmouth at Hanover; won by M. I. T. Baseball: M. I. T. '05 vs. M I. T. '06. 1906 Class Meeting.
- 11 1903 Class Meeting.
- 16 Baseball: M. I. T. '05 vs. M. I. T. '06.
- 22 Senior Portfolio issued.
- 25 N. E. I. T. A. Championship Meet.
- 27 M. I. T. A. A. elections. President G. A. Curtis.
- 29 1903 Smoker.

June

- 8 Class Day Exercises. H. S. Baker, First Marshal.
- 9 Commencement Day. Graduation Exercises in Huntington Hall. Tech night at the Pops. End of college year.

October

- 2 Y. M. C. A. Reception to Freshmen.
- 5 First Convocation. Dr. Edward Everett Hale, speaker.
- 9 Track Team Meeting. G. A. Curtis elected Captain.
- 10 1907 Class Meeting. G. W. Otis, temporary Chairman.
- 12 1905 Class Meeting.
- 17 1907 Class Meeting.

October-Continued

- 22 Fall Handicap Meet.
- 23 Fall Handicap Meet continued. Dean and Advisory Staff give informal reception to Graduate Students.
- 24 Fall Handicap Meet ended. 1906 Class Elections. President, J. T. Lawton.
- 26 1906 Class Meeting.
- 28 1904 Dinner at Union. Football: M. I. T. '06 vs. Harvard 07.
- 31 Hare and Hounds Run at Winchester. Chess Club Meeting. 1907 Class Meeting. 1905 Class Elections. A. J. Amberg, President.

Mobember

- 4 1905 Class Meeting.
- 7 Field Day, 1903; won by 1906.
- 9 1906 Class Meeting.
- 14 Cross-Country Race. M. I. T. vs. Amherst; won by M. I. T. 1904 Class Meeting.
- 19 Meeting of the Class of 1902 at Union.
- 21 1907 Class Elections. President G. W. Otis.
- 23 Informal 1905 Class Dinner at Union.

December

- 1 Annual Dinner to the participants in Field Day.
- 8 Basket Ball: Boston University vs. M. I. T.
- 10 All-Round Contest began.
- 11 Chess Match: Harvard vs. M. I. T.
- 12 Basket Ball: M. I. T. vs. Holy Cross.
- 16 Class of 1898 Reunion at the Tech Union.
- 17 All-Round Contest.
- 18 Annual Concert of Musical Clubs at New Century Building. Convocation in Huntington Hall. Chess Match: M. I. T. vs. Harvard.
- 19 Beginning of Christmas vacation.
- 25 President and Mrs. Pritchett received at the Union.
- 29 Christmas vacation ends.
- 31 Annual Senior Meeting on Rogers Steps to see the New Year in.

1904 January

- 4 1906 Class Meeting.
- 6 Trial for Indoor Meet in High Jump. Shot Put and Pole Vault.
- 7 Annual Indoor meet at gymnasium; won by Class of 1907.
- 8 Chess Match: M. I. T. vs. Boston Chess Club.
- 9 Basket Ball: M. I. T. vs. Worcester Polytechnic Institute. Fencing: M. I. T., vs. Harvard.
- 12 Freshman Battalion Hop at Paul Revere Hall.
- 13 1905 Class Meeting to elect Prom. Committee.
- 14 All-Round Contest. First Trial for Technology Relay Team.
- 16 Basket Ball: M. I. T. vs. N. H. Agricultural College.

January-Continued

- 19 Semi-Annual Examinations begin.
- 30 Semi-Annual Examinations end.

*eBruary

- 1-9 Mid-Year Vacation.
- 10 Basket Ball: M. I. T. vs. Brown.
- 13 B. A. A. Meet; Relay Race between M. I. T. and Georgetown. Fencing: M. I. T. vs. Harvard.
- 15 Reunion of Class of 1898 at Union.
- 16 All-Round Contest.
- 17 Basket Ball: M. I. T. vs. Amherst,
- 18 All-Round Contest.
- 20 1907 Class Meeting.
- 25 1904 Kommers at Union.
- 26 Reunion of Class of 1901.
- 26 Class Match: M. I. T. vs. Harvard.
- 29 1905 Class Meeting. 1906 Class Meeting.

march

- 3 1905 Annual Class Dinner at Union. All-Round Contest.
- 4 Reunion of Class of 1902 at Union. M. I. T. wins Intercollegiate Fencing Match with Harvard, Yale, and University of Penn.
- 8 1906 Class Dinner at Union.
- 9 Basket Ball: M. I. T. vs. Worcester Tech.
- 11 1907 Class Dinner at Union. Chess Match: M. I. T. vs. Boston Chess Club.
- 14 Cross Country Association, President, W. K. Major, '07.
- 18 Chess Match: M. I. T. vs. Press Club.
- 20 1906 Class Meeting.
- 25 Chess Match: M. I. T. vs. Dorchester Chess Club.
- 30 Smoker and Reunion of Class of 1903.

April

- 1 Reunion of Class of 1902.
- 2 Election of 1904 Class Day Officers; Currier Lang, First Marshal.
- 4 1906 Class Meeting.
- 9 Applications for Tech Show Seats received. Rush began at 1 P. M. on April 8th.
- 25 Tech Show "Simon Pure Brass" at Malden.
- 26 Tech Show, Hollis Street Theater.
- 27 Annual Concert of Musical Clubs.
- 28 TECHNIQUE 1905, Volume XIX, issued at noon. The Tech Tea in General Library. Junior Promenade at Hotel Somerset.
- 29 Tech Show at Hollis Street Theater.

may

7 Dual Meet with Dartmouth at Newton Athletic Field.



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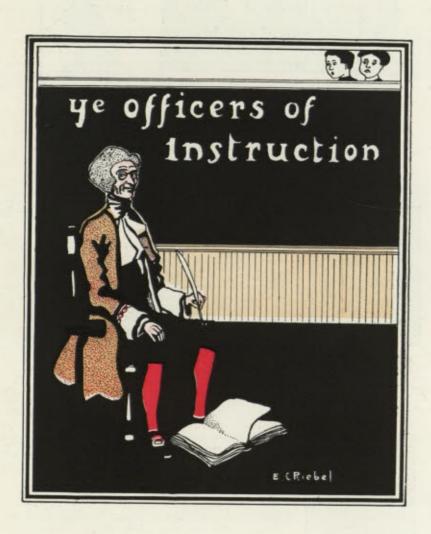
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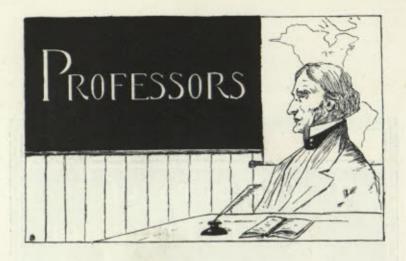
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PRESIDENT of the Corporation, Massachusetts Institute of Technology; made Assistant Professor in the Naval Observatory, Washington, 1878; Assistant Professor of Mathematics and Astronomy in Washington University, St. Louis, Mo., 1881; Professor of Astronomy in Washington University, 1884; Chosen Superintendent of the U. S. G. and C. Survey, 1897; President of the Massachusetts Institute of Technology from 1900.

Report on Observations of the Total Eclipse of July 29, 1878; Observations of Conjunctions of the Satellites of Saturn; A Determination of the Mass of Mars; A Determination of the Diameter of Mars from Micrometric Observations, with a Discussion of Systematic Errors; Determination of the Longitude of the Mexican National Observatory; The Transit of Mercury, 1891; Report of Washington University Eclipse Expedition; The Solar Corona of 1899 with Discussions of the Photographs; Eclipses of Saturn's Satellites and Their Use in Determining the Planet's Diameter (with tables); Personal Equation in Time Observations; Meridian Circle Observations, etc.; A Plan for an International Arc of the Meridian; and many other papers and reports.

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Assistant Professor of Mathematics, U. S. Naval Academy, 1861-65; Professor of Mathematics, Massachusetts Institute of Technology, from 1866; Secretary of Faculty, 1868-71; Walker Professor of Mathematics, from 1902.

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

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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 the M. I. T. Alumni Association, 1873-76; President of the American Institute of Mining Engineers, 1886-87.

Author of Ore Dressing, 1903. Residence, 32 Eliot Street, Jamaica Plain.



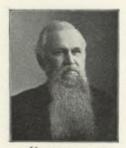
Robert N. Richards

WILLIAM H. NILES, S.B., Ph.B., A.M., LL.D., Professor of Geology and Geography Emeritus.—S.B., Harvard, L. S., '66; Ph.B., Yale, S.S., '67; Berzelius Society; A.M., Wesleyan, '69; LL.D., Temple, '03.

Professor of Physical Geography, Massachusetts Institute of Technology, 1871-78; Professor of Geology and Geography, Massachusetts Institute of Technology since 1878, Emeritus 1902; Stated Lecturer on Geology, Wellesley College, 1882-88; Professor of Geology, Wellesley College since 1888; President, Boston Society of Natural History, 1892-97; President, Appalachian Mountain Club, 1879, 1882 and 1898.

Author of various geological papers, published chiefly in Proceedings of Boston Society of Natural History and American Journal of Science.

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CHARLES R. CROSS, S.B., Thayer Professor of Physics and Director of the Rogers Laboratory.— M. I. T., '70, Sci. and Lit.

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 from its establishment in 1882 till 1902.

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

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GAETANO LANZA, C.E., Professor of Theoretical and Applied Mechanics; in charge of the Department of Mechanical Engineering.

Instructor, Massachusetts Institute of Technology, 1871-72; Assistant Professor, 1872-75; Professor of Theoretical and Applied Mechanics from 1875; also in charge of Department of Mechanical Engineering from 1883.

Author of Applied Mechanics (1885), and of many papers in Transactions American Society of Mechanical Engineers, Proceedings Society of Arts, Proceedings British Institution of Civil Engineers, Technology Quarterly, etc. Notes on Mechanical Engineering (1886). Notes on Friction (1887), etc. Residence, 22 West Cedar Street.



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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; Director American Society of Civil Engineers, 1901-04.

Director American Society of Civil Engineers, 1901-04.

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 of Arts, Journal Franklin Institute, Journal of the Association of Engineering Societies, etc.

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FW transem.

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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; Member of Art Commission, City of Boston; Honorary Member of American Institute of Architecture.

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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Instructor in Physiological Chemistry, Sheffield Scientific School of Yale University, 1878-79; Fellow, Assistant and Associate in Biology, Johns Hopkins University, Baltimore, 1879-83; Assistant Professor of Biology, Massachusetts Institute of Technology, 1883-84; Associate Professor, 1884-91; Professor from 1891; Biologist, State Board of Health, 1888-96; Chairman, Pauper Institutions Trustees, City of Boston, 1897-99; Curator, Lowell Institute, since 1897; President American Society of Naturalists, 1901.

Author, General Biology (1886), New Edition (1895); Assistant Editor, Life and Letters of William Barton Rogers, 2 vols., 1896; Author, Principles of Sanitary Science and the Public Health, 1902; of numerous reports to the State Board of Health of Massachusetts on Epidemics of Typhoid Fever Caused by Infected Water, Milk, etc., various scientific memoirs and monographs, addresses on Education, etc.

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Author of a Syllabus on Political History since 1815 (1887); Graphic Statistics, etc.; Editor of Discussions in Economics and Statistics by Francis A. Walker, 2 vols. (1899); Contributor to Dictionary of Political Economy; Education for Commerce (1901); Contributor to the Literature of American History (1902); Author of Financial History of the United States, (1903); Editor of Special Report, Employees and Wages, Twelfth Census of the United States.

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

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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, Manual of the Steam Engine Indicator (1900), etc. Residence, 25 Columbia Street, Brookline.



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ARLO BATES, A.M., Litt.D., Professor of English.— Bowdoin, '76: A Δ Φ, Φ BK.

Epiror of Broadside, 1878-79; Editor of Boston Courier, 1880-93; Correspondent of Providence Journal, Chicago Tribune, Book Buyer, etc., 1880-83; 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 Philistines, 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, Under the Beech Tree, Love in a Cloud, Talks on Writing English, Second Series, and The Diary of a Saint.

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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 Architects français; took part in the Concours de Rome four times, and classed first with title of First Second Grand Prix in 1889; Lauréat of the Institut de France; Lauréat of the Salon, first medal in 1900, hors concours, purchased by the government of France; Officier d'Academie; Officier de l'Instruction publique; Assistant Inspector of State Buildings and National Palaces, and under this title helped in the building of the New Ministry of Agriculture and Commerce, National Library, Bank of France, the mansion of M. Wilson and M. Grevy (ex-President), and various other public and private edifices.

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Peter Schwamb, S.B., Professor of Machine Design and Director of the Mechanical Laboratories.— 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; Professor of Machine Design, 1901.

Author of Notes on the Elements of Mechanism (1885), Notes on Gearing (1888), etc. Residence, 33 Academy Street, Arlington.

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

Assistant Engineer, Providence Sewerage, 1873-75; Assistant Engineer, Newton Waterworks, 1875-76; Engineer Inspector, Boston Sewerage, 1877; Assistant Engineer, Atchison, Topeka & Sante Fe R. R., 1878-80; Assistant Engineer, Mexican Central R. R., 1880; Chief Engineer, Las Vegas Waterworks, and general engineering, 1880; Assistant Engineer, Atchison, Topeka & Sante Fe 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, President, 1903-1904; Member of Executive Committee, New England Railroad Club, 1899-1904; Member of Committee on Roadway of American Railway Engineering and Maintenance of Way Association; Admitted to Practice Law in the Courts of New Mexico, 1885, and of Massachusetts, 1901; Member of Committee of Publication Technology Review, 1899-1901; Assistant Professor Massachusetts Institute of Technology, 1887-89; Associate Professor, 1889-96; Professor from 1896. Author of Measurement of the Angular Deflection of Beams

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, and several articles in engineering magazines.

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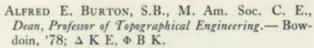
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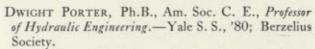


april E. Burton



LAND Surveyor, 1878-79; Topographical Draughtsman and Topographer on U. S. Coast and Geodetic Survey, 1879-82; Commissioner on Massachusetts Topographical Survey, 1895-1900; in charge of Scientific Expedition to Umanak, Greenland, summer of 1896; in charge of Eclipse Expedition to Washington, Georgia, May, 1900; in charge of Eclipse Expedition to Sumatra, 1901; Instructor in Topographical Engineering, Massachusetts Institute of Technology, 1882-84; Assistant Professor, 1884-89; Associate Professor, 1889-96; Professor from 1896; Dean from 1902.

Author of several articles in Technology Quarterly, Review. Residence, 58 Webster Street, West Newton.



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 from 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. Residence, 149 Hawthorne Street, Malden.

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PRACTICING Metallurgist, 1877-85; Private Assistant to Prof. R. H. Richards, and Lecturer on Metallurgy, Massachusetts Institute of Technology, 1887-88; Professor of Metallurgy and Assaying, Dakota School of Mines, 1887-89; Assistant Professor of Mining and Metallurgy, Massachusetts Institute of Technology, 1889-91; Associate Professor of Mining and Metallurgy,

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 (1892-1902); 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 and Fluxes (1898); Aluminum as a Reducing and Heat-Producing Agent (1902); Encyclopedia Britannica Supplement, articles on Lead and on Silver (1902). Residence, 88 Robinwood Avenue, Jamaica Plain.



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Assistant in Analytical Chemistry, Massachusetts Institute of Technology, 1885-87; Instructor, 1887-88 and 1890-92; Assistant Professor of Analytical Chemistry, 1892-95; Associate Professor of Analytical Chemistry, 1895-98; Professor of Analytical Chemistry, 1898-1902; Professor of Inorganic and Analytical Chemistry, from 1902.

Author of Ueber das Verhalten der Tiglinsäure und Angelicasäure gegen Bromwasserstoff und Jodwasserstoff (1890); Notes on the Action of Hybromic and Hydriodic Acids on Tiglic Acids (1891); An Index to the Literature of Angelic and Tiglic Acids from 1842 to 1892; Notes on the Properties of Hydrogen Peroxide Solutions (with H. R. Moody); An Introductory Course of Quantitative Chemical Analysis (1897); A Bibliography of the Analytical Chemistry of Manganese (with John W. Brown) (1902); The Recorded History of the Members of the Argon Group (1902); and other Chemical Papers. Residence, 273 Otis Street, West Newton.



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Assistant in Analytical Chemistry, Massachusetts Institute of Technology, 1887-88; Instructor, 1890-94; Assistant Professor, 1894-97; Associate Professor of Organic Chemistry, 1897-99; Professor of Theoretical and Organic Chemistry, 1899-1902; Professor of Theoretical Chemistry from 1902.

Author of A Detailed Course of Qualitative Analysis; General Principles of Physical Science; Laboratory Experiments on the Class Reactions and Identification of Organic Substances; and many articles in scientific journals.

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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, from 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.

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WILLIAM BAIRD, Captain U. S. A., Professor of Military Science and Tactics (Relieved February 15, 1904).-West Point, '75.

MEMBER Regular Army and Navy Union; Loyal Legion, Sons of the Revolution; Society of Colonial Wars; National Geo-

Telegraphy, Fort Meyer, Va., 1881.

Service with Sixth U. S. Cavalry, participating in the Chiricahua, Chimhuevi, Victorio and Geronimo Campaigns. Explorations and Surveys for Wagon Routes in Tonto Basin, in Moqui and Navajo Country, 1877; Colorado Cañon, 1880. Inspector of Supplies, Shoshone Reservation, Wyo., 1891. Garrison Duty at Fort Leavenworth, Kan. Infantry and Cavalry School, 1894. Retired, 1897 ("Disability in line of

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POSTGRADUATE Student in Sanskrit and Germanic Philology and Instructor in German, Harvard University, 1871-74; Instructor in French, Sanskrit and Anglo-Saxon, Boston University, 1874-83; Lecturer, German Literature, Gothic and Middle High German, Johns Hopkins University, 1883-85; Instructor in Modern Languages, Massachusetts Institute of Technology, 1886-91; Assistant Professor, 1891-95; Associate Professor, 1895-1901; Professor from 1901.

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,

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Instructor in History and Political Science, Massachusetts Institute of Technology, 1891-93; Assistant Professor of History, 1893-95; Associate Professor, 1895-1901; Professor of History from 1901. Residence, Winchester.



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LIEUTENANT of Danish Navy, 1879-97; Commander from 1897; On Technical Staff of the Copenhagen Navy Yard, 1886-94; Sub-Director of Burmeister and Wains Ship and Engine Company, 1895-97; Member of the Danish Transit of Venus Expedition to St. Croix, 1882.

Member of the Institute of Naval Architects and of the American Society of Naval Architects and Mining Engineers.

Author of Submarine Boats, and also two books on Physical Exercise.

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GRADUATE U. S. Naval Academy, 1880; Assisted Professor Rowland in the determination of the Ohm, 1882; Graduate of Course of Torpedo Instruction at Torpedo School, Newport, R. I., 1883; President of Board of Judges at International Electrical Exhibition, 1884; Resigned from Navy, 1886; Head of course of Applied Electricity at Johns Hopkins to 1898; Major in the First Regiment of Volunteer Engineers during Spanish-American War; Present Electrical Engineer for the New York Rapid Transit Commission and for several railroad and telephone companies; Professor of Electrical Engineering, Massachusetts Institute of Technology from 1902.

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Author of General Principles of the Method of Least Squares.



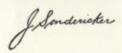
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Author of a number of articles printed in the Transactions American Society of Mechanical Engineers, the Technology Quarterly, Machinery, and other Engineering papers, Steam Boilers (with C. H. Peabody), Waste Heat Engines (New England Water Works Association, Engineering News, Engineering Record); Foreign Technical Schools.

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Editor and Annotator of Chamisso's Peter Schlemihl's Wundersame Geschichte, Hauff's Lichtenstein, Storm's Geschichten aus der Tonne, A Scientific German Reader, and other publica-

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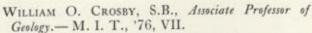
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Author of Elements of Shades and Shadows, Principles of Perspective.

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STUDENT Assistant in Paleontology, 1875-76; Assistant in Paleontology, 1876-78; Assistant in Geology, 1878-80; Instructor in Geology, 1880-83; Assistant Professor of Mineralogy and Lithology, 1883-92; Assistant Professor of Structural and Economic Geology, 1892; Associate Professor of Geology, 1902.

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 Notes on Heat, Derived Electrical Units, Elements of the Theory of Potential, and various papers published in the Technology Quarterly, Proceedings of the American Academy of Arts and Sciences, etc.

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Author of Neue Beobachtungen über das Verhalten der Sesquiterpene, Concentration Changes in the Electrolysis of Brine, Industrial Preparation of Electrolytic Bleaching Liquor, and occasional other scientific papers.

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Assistant in Mathematics, Harvard University, 1889-91; Instructor in Mathematics, Massachusetts Institute of Technology, 1891-93; Assistant Professor from 1893.

Author of Plane and Solid Analytic Geometry (with Professor

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Assistant in General and Sanitary Chemistry, Massachusetts Institute of Technology, 1884-86; Instructor, 1886-87; Water Analyst State Board of Health, 1887-88; Instructor in Gas Analysis, Massachusetts Institute of Technology, 1890-94, Assistant Professor from 1894; Assistant Professor of Technical Analysis from 1903; Lecturer at Wellesley College, 1893-94. President North Eastern Section of the American Chemical Society, 1903.

Author of Gas and Fuel Analysis for Engineers (1896), New Edition (1902), A Short Handbook of Oil Analysis (1897), New Edition (1903,) and of twenty papers in scientific periodicals. Editor of a Register of Publications of the Institute (1862-1893), First Supplement (1893-1898).

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RICHARD W. LODGE, Assistant Professor of Mining and Metallurgy. -M. I. T., '79, III.

Assistant in Mining and Metallurgical Laboratory of the Massachusetts Institute of Technology, 1879-80; Mining in Colorado, 1880-81; Mine Superintendent in Nevada, 1881-82; Assistant in Mining and Metallurgical Laboratory of the Massachusetts Institute of Technology, 1882-83; Head Chemist for North Chicago Rolling Mill Company, South Chicago, Ill., 1883-85; Chemist for Sloss Iron and Steel Company, Alabama, 1887; Instructor in Mining and Metallurgical Laboratory of the Massachusetts Institute of Technology, 1889-94; Assistant Professor from 1895.

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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; Lecturer on Mathematics, Harvard University, 1898-99.

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Author of Plane and Solid Analytic Geometry (with Professor Bailey, 1897); Papers in Mathematical Journals; Editor of Annals of Mathematics.

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Instructor in Engineering and Mathematics (and for part of the time in Physics and French), Sheffield Scientific School, Yale, 1873-81; Computor and Draughtsman, Statistical Atlas of Ninth Census, 1873-75; Manager and Treasurer of the American Electric Company, 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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GEORGE H. BARTON, S.B., Assistant Professor of Geology.-M. I. T., '80, III.

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; Assistant in United States Geological Survey, 1888-93; President Appalachian Mountain Club, 1903; Curator of the Teachers' School of Science.

Author of Outline of Elementary Lithology, Outline of Dynamical and Structural Geology, and 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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Assistant in Physics, 1889-91; Instructor in Physics, 1891-93; Instructor in Electrical Measurements, 1893-97; Assistant Professor of Electrical Measurements, 1897; Assistant Professor of Electrical Testing from 1902.

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. Residence, 81 Essex Street, Salem.



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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; Notes on Physical Laboratory Experiments; Some Experimental Researches in Acoustics, 1890; Studien zur Voltasche Kette, 1892; The Fundamental Laws of Electrolytic Conduction, 1899; and various papers in scientific journals. Residence, 232 Townsend Street, Roxbury.

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Instructor, Massachusetts Institute of Technology, 1893, Assistant Professor from 1898.

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Assistant in Physics, Massachusetts Institute of Technology, 1892-93; Instructor in Physics, 1893-1900; Assistant Professor of Physics from 1900; in charge of Instruction in Physics, Boston Normal School of Gymnastics from 1894; Instructor in Physics, Boston University, from 1895.

Author of Notes on Methods of Telegraphy; Notes on Dynamo Design; and a number of articles in various technical publica-

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Assistant in Physics, Massachusetts Institute of Technology, 1892-93; Instructor in Physics, 1893-1900; Savage Fellow of Massachusetts Institute of Technology, studying in Leipzig, 1896-98; Honorary Fellow of Massachusetts Institute of Technology, studying in Berlin, 1898-99; Assistant Professor of Physics from 1900. Author of Ueber die Rotations Dispersion der Weinsäure

und des Terpentinöls; Paper on some Experiments with the Phonograph relating to the Vowel Theory of Helmholtz; Secretary of Society of Arts (1899-1902), Massachusetts Institute of Technology.

Residence, 39 Cedar Street, Somerville.



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Assistant in Chemistry, Massachusetts Institute of Technology, 1890-94; Instructor in Chemistry, 1896-1900; Assistant Professor of Theoretical Chemistry from 1900; studying in Leipzig, 1894-96; studying in Paris in 1896.

Translator of Le Blanc's Electro-Chemistry and author of several papers in Scientific Journals; Electro-Chemist for the General Electric Company. Residence, Technology Club.



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Assistant in Industrial Chemistry, Massachusetts Institute of Technology, 1889-91; Instructor, 1894-1900; Assistant Profes-

Author of Ueber die Oxime der Substituierten Benzophenone (1893); A Review of Some Improvements in Chemical Industry (1896); Inorganic Chemical Preparations (1896); Outlines of Industrial Chemistry (1898). Residence, 45 Oriole Street, West Roxbury.

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Contributed to various publications, papers on Fire Protection, Heat Conduction, The Protection of Steam-Heated Surfaces, The Application of X-rays to Medicinal Diagnoses, The Illumination of Interiors by Ribbed and Prismatic Glass, Electric Furnaces, etc.

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Assistant in Chemistry, Massachusetts Institute of Technology, 1895-96; Instructor in Chemistry, 1896-1900; Assistant Professor from 1900; Secretary of the Society of Arts; Secretary of the Johns Hopkins Club of New England.

Author of about twenty papers on Chemistry published in the American Chemical Journal.

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Pictures exhibited at Boston Art Club and Copley Association of Boston, New York Academy of Design and Philadelphia

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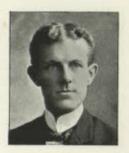
Instructor in Architecture, 1896-1903; Assistant Professor from 1903.

Author of Shades and Shadow Notes for the American School of Correspondence.

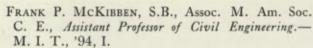
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Translated Effront's Enzymes and their Applications, 1901. Chief Author of Science and Experiment in Canning, 1903; Elements of Water Bacteriology (with C.-E. A. Winslow), 1904, and many articles relating to sanitary and industrial bacteriology.

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Residence: 25 Highland Avenue, Newtonville

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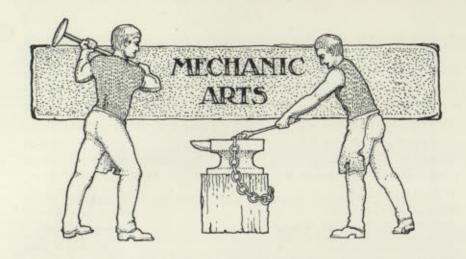


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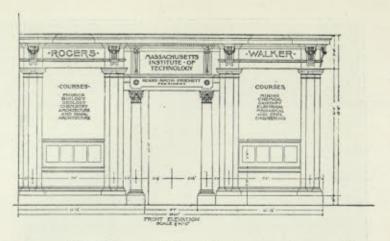
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Technology at the World's Fair

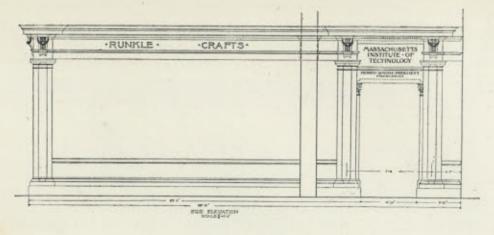
HE INSTITUTE has been fittingly represented at the last two International Expositions, and intends to surpass its previous records by its complete and artistic exhibit at the World's Fair this year. The location of the exhibit in the Education building is very convenient, Technology having secured one of the best spaces allotted to any college. The Education building itself is in the center of the "main picture," being located in the central court at the very foot of the cascades, which are the feature of the Exposition.

The work of arranging for the exhibit has been done by a committee composed of Professors Derr, Gardner, Lawrence, Norris and Park, with Dean Burton as chairman. This committee decided that the ornamental booth to contain the entire exhibit should be designed by the Architectural Department. This was accordingly done, and resulted in a design which not only has an individuality, but is also typical of the work of the Architectural course. The booth is 26 by 38 feet, and the walls show the Institute colors, gray predominating, with the names of the courses, and a few other lines in red. On the outside wall, along the main aisle, will be shown a series of photographs, drawings and blue prints, the work of graduates. Within is found work representative of every



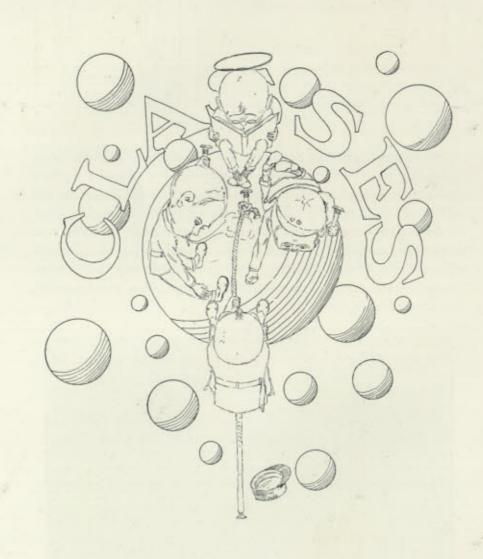
department of Institute activity. Each course has an album containing photographs and descriptive text. There is also a large album of student life, showing cuts of the various athletic teams, musical clubs and other organizations. On the walls are large photographs of all the Institute buildings and laboratories. Drawings chosen at random from the courses in Civil and Mechanical Engineering, Architecture and Naval Architecture, as well as models of ships made by the Naval Architects, are exhibited. The Architectural Department is represented in part by the booth itself, but in addition to this one entire wall is covered with their work. During the Fair different Institute men, first one professor then another, with now and then a student, will have charge of the exhibit.





The great prominence given to the educational department—this being the first International Exposition to devote an entire building to educational purposes—gives special significance to the exhibit of the Institute. In this day of rapidly changing ideas Technology has many formidable competitors, but it is certain that the energy expended in showing to the world, side by side with other colleges, the methods and results of the Institute, will tend to strengthen its already firmly established reputation for thorough and efficient work.







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Senior Class History

It being a Chronicle of some of the Events and Doings of the Class of 1904

1.36.36

Walter Cronin waiting for the Institute to open its doors to receive "me, the Co-eds, and the Class of 1904," and hid its face at the sight. Such might have been the unpropitious entrance of Dr. Pritchett and the present Senior Class; but Walter was impatient, and wandered off in quest of other laurels. So the game was spoiled. As it was, we registered with the usual trials and tribulations, and started on our Institute course, which can only be likened to a rocket soaring, with ever-increasing brilliancy, upward and upward, until at last, with one supreme effort, it bursts,—spreading its magnificent fire over the heavens, and dies out,—leaving only the memory of its short, but brilliant career.

After forcing the Sophs to beat a hasty retreat in our first rush, we organized, with Mat. Emerson at the helm, until the permanent class elections placed Charlie Homer in the lead for our Freshman year. Then we began. The reverses and sad memories of that first Field Day and last Cane Rush were put aside, and we went after the track championship,—landing tie with 1902 for that place. But—unlike the B. and M. R. R.—we are running ahead of schedule, and have omitted to tell of the times we helped lick Harvard after the political Parade, and assisted Tommy Pope and "Phosphorus" Burns in their research for chemical phenomena. The phenomena—though not exactly chemical—proved to be "the

Technique twins," Haar and Kaiser, and our "envoy to Wellesley," Peacham Paine. We came through the effects of Christmas in time to pass our mid-years, breaking all records for the time spent on a military science exam, and fell over the line into the second term. monotony of English themes was broken by drill, Analyt. and Descript.; and we passed the time away till "Major" Briggs (not the Advisory Council) showed up at our exhibition drill with thirteen (actual count) silver (?) medals draped in graceful patterns across his manly chest. That was too great a shock for some of us to survive, and, strange to say, it affected our soldier boys, "Short" Burrows and Weaver, so much that they were not on hand in the fall to help us beat the Freshmen into shape.

Sophomores at last; and who knows the joyous thrill of such a name until they have slept through one of Charlie Cross's lectures, and heard Arlo thunder out his dissertation on "Have Beans" to the assembled populace. It was necessary for Porter to show up late at one lecture, and to get stuck at "Mac's" again in order to realize we were back at the same old place. Things journeyed along, and we dug Calculus and all the rest of it till Field Day came to relieve the monotony. After making 1903 look like that smile of Dana P.'s, we let the Freshmen win the Field Day, and then took up our way again with L. P. Burnham in the band wagon. Our success in the Winter Meet, and the result of the exams, which came only too soon afterwards, left us with a mixture of feelings hard to describe. But with the coming of the second term we found "Joe" Crowell trying to invent that machine to do his work without any effort on his part. "Doc." Wendell queered all that, though, with one of his "straight-forward" questions that "beat the Devil around the bush"; and the smoke cleared off to find "Fats" Rupf building (?) an auto to run by electricity, gas, and hot He found its efficiency-using "Charlie" as a standard—was .01 per cent, and gave up in disgust. TECHNIQUE elections were upon us, and great was the disappointment of "Dmit" Bary when he lost out on being elected to the Electorial Committee. Once more, to our glory, we had no Dick Croker, no ring, to boast of, but it was the survival of the fittest. We won the championship

in track, cleaned up the Freshmen in baseball, and then turned our Technique attention to the spring exams-giving "Plugger" Peiler a chance to get in some good licks.

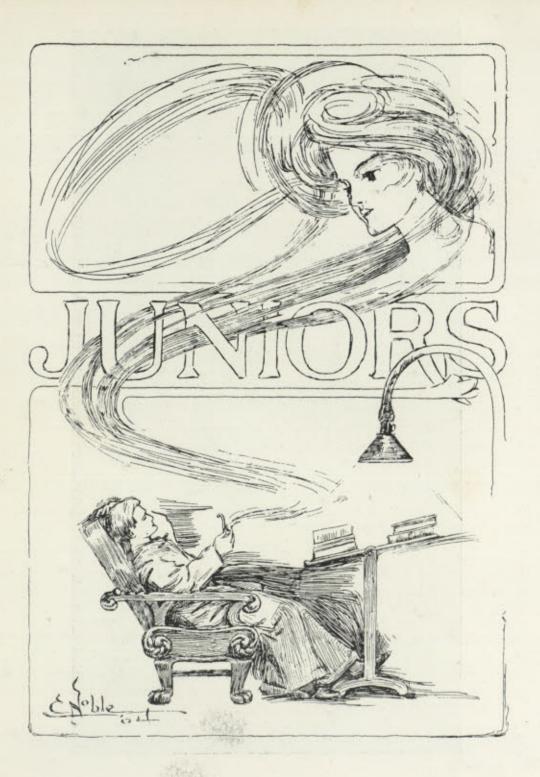
We returned (what there was left of us) after a strenuous summer, Juniors, upper-class men-pretty much the whole show. Some celebrities had left us. Bary, of the long hair, had sought other conquests. Gould, noted for the Cane spree and his affection for a sweater, no longer graced our classes with his presence. And our erstwhile President, L. P. Burnham, preferred climes less warm than those connected with the Institute. We found "Jerry" Sweet and Gould, Downes, Lang, and the rest of the gang seated on the ledge of the Bursar's window as we came into Rogers; while Harry T. and "Little" Humphreys (looking a perfect miniature of Harry) rushed around, trying to distribute scrap paper termed rollslips. Politics were hot this year with the ring all for "Pret" Smith, who was eventually elected. A quiet, studious life, once in a while interrupted by Harry Clifford's lectures on "The Manufacture of Liquid Air for Commercial Uses," or "The Equation of a Perfect Gas as illustrated by Peabo's Thermo," characterized the first term. Applied and Thermo presented new fields to conquer or not, as the fortunes of war (commonly known as Profs) decreed. But all was leading up to that period in the Junior Year known as Junior Week, to which every Tech man had been looking forward in the fond expectancy that 1904 would turn out the best yet. And their hopes were realized. The 1904 TECHNIQUE came out with a rush in more senses than one, and made all previous Techniques fade into dim insignificance in comparison! On the same day we put aside engineering and literary feats, found some hot fussers in "Tammy" Rockwood and "Billy" Cronin, and held the Prom. Again 1904 showed its versatility by pushing through the best Prom. ever held; so those that were in a position to judge declared. The following day the other classes helped us make the "Scientific King" a tremendous success.

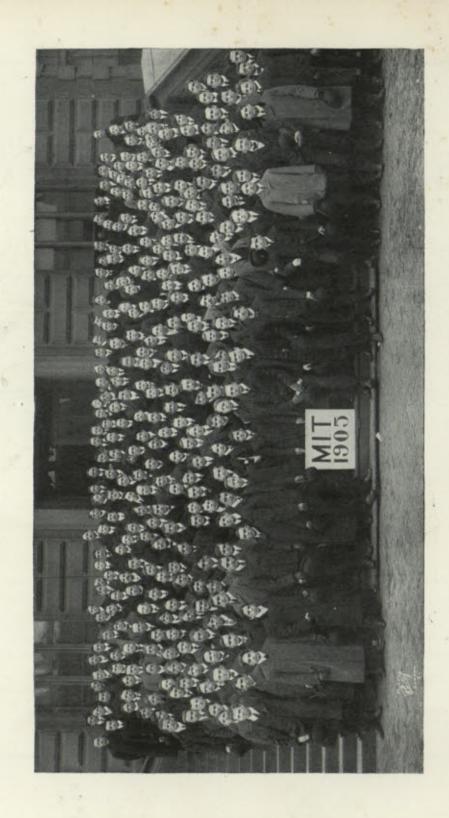
Senior Year brought to our friend "Bous" the thought "I shall conquer the world," as he walked up Rogers steps that bright morning last September. What the rest of us thought is not

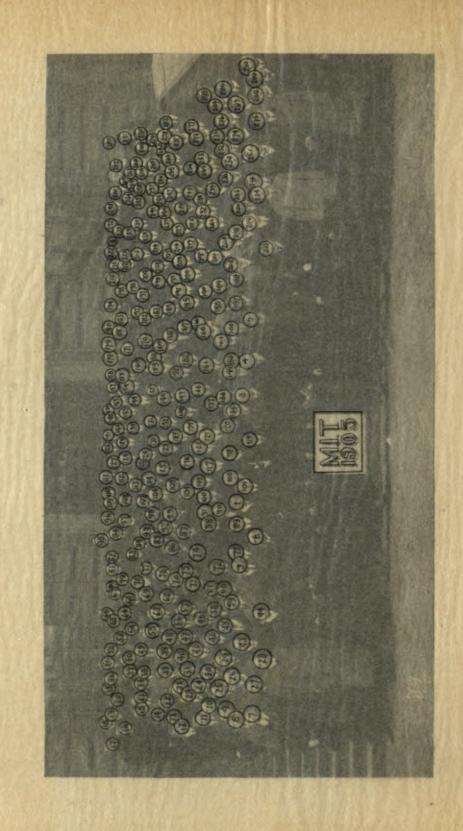
Technique recorded in the book! Once on the last lap we found many pacemakers. "Zeus" Roberts started out to kill the bunch, but the Tech Chambers training table went back on him, and it was all off. "Theses to the right of us, theses to the left of us!" Who can imagine the benefits to mankind arising from the investigations of our Class? When Haar gets his insoluble substances dissolved, when "Cap" Curtis gets that suspension bridge from Eng. A. to Rogers, when "Chick" Emerson and "Cal" Bascom get an engine running by using the CO, from the air, then you, O Reader, will understand the likeness of our great and glorious Class to the beforementioned rocket. We've passed the first term with nothing to disturb us but class elections, which only resulted, as has always been the case with us, in the best man getting the job, when Walter Hadley got the Presidency. We've held our last Kommers, which was a repetition of the many joyous occasions we've spent around the festive board. Our class dinners and Kommers will always hold a bright place in our memories of pleasures here, -especially when we think of "Volts" Ovington's tricks, "Freddie" Pierce on the box, those long-winded harangues of "Jerry" Sweet's, and blush at some of the jokes told by "Benny" Blum at our Freshman dinner. How well we can hear dear old Blackie make his puns at our expense, and cheer him as he says, "The Class of 1904 is the first and foremost of the century."

> Now we're on the home stretch; and as soon as the disturbance of Class Day elections is over everything will be serene until we have that elusive article known as our degree in our hands; and then—for us only the future remains. Our book is nearly closed, and these will be the last chronicled events of our Class's career. To finish out, we leave our Alma Mater, the places that have grown familiar to us through the past four years, early in June. What our Class will be twenty years from now is hard to say, and it is not in the historian's province to try. But, in spite of all, we'll always be in the Class of 1904 of the Massachusetts Institute of Technology; and as for the rest, -

> > "Trust no future, howe'er pleasant; Let the dead past bury its dead: Act! act in the living present, Heart within, and God o'erhead! "







255 Whitney, H. L. 255 Hoggs, C. A. 257 Biggs, A. J. 258 Krigsman, E. F. 259 Krigsman, E. F. 250 Krigsman, C. H. 250 Krigsman, C. H. 251 Taylor, W. A. 252 Krigh, C. H. 253 Krigsman, J. H. 253 Krigsman, J. H. 254 Krigsman, J. H. 255 Krigsman, J. H. 256 Krigsman, J. H. 256 Krigsman, J. H. 257 Krigsman, J. H. 258 Krigsman, J. H. 259 Krigsman, J. H. 250 Krigsman, J. H	124 Tebbetts, J. H. 133 Thomas, G. C. 230 Tower, G. S. 231 Turner, W. 233 Turner, W. 234 Turner, W. 235 Turner, W. 235 Turner, W. 236 Turner, W. 237 Turner, W. 237 Turner, W. 238 Walker, H. L. 258 Walker, H. L. 258 Warre, C. E. 258 Walker, H. L. 258 Warren, C. E. 258 Walker, H. L. 258 Warren, C. E. 259 Warren, C. E. 250 Warren, C. E. 250 Warren, C. E. 250 Warren, C. E. 251 Walls, P. L. 252 Wells, P. L. 253 Wells, P. L. 254 Whitning, H. 255 Whitning, H. 256 Whitning, H. 256 Whitning, H. 257 Whitning, H. 258 Whitning, H. 259 Whitning, H. 250 Whit
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Class of Mineteen Hundred and Kive

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A Technological Experiment

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HE night before the exam in Applied Mechanics I was returning up Boylston Street from the house of a friend, where we had been cramming together. When I reached Rogers Building I paused to consider an idea which had occurred to me. It was twelve by the clock in front of Met-The night was dark, and the huge structure before me looked unusually gloomy. Everything was perfectly still and quiet, save for the occasional hoot of an owl from the Natural History Rooms. An oppressive sense of dread came upon me, for indeed I was in a bad fix. The building recalled thoughts of the cuts that had been, and the flunks that were to come, and especially of that great catastrophe which the morrow was to bring forth. "It is the only hope there is. 'To do or not to do'?" said I, and then added grimly, "Or, rather, 'to do or to be done,' that is the question;" and the thought brought me courage. I crept cautiously to the back of the building, climbed the fire escape, found a window unlocked, and crawled in. I made straight for the room where the Faculty hold their meetings. "Oh! if I can only find them; they must keep them here somewhere!" And, sure enough, after a long search I found a closet filled with shelves, on which were bottles of all sizes and descriptions; little bottles and big bottles, blue bottles and green bottles, long-necked bottles and short-necked bottles; bottles innumerable. "Now if I can only find the right one;" and visions of "C's" dazzled me, and made me tremble with anxiety. Then I read the following labels, and many more besides: Blacky's Dutch Concoction, Cross's Hair Invigorator, Pope's Soothing Syrup, Dewey's Corn Cure, The Old Doctor Tyler's Extract of Flunks,

Technique Dippy's Non-alcoholic Cordial, Arlo's Bitters, Crosby's Spirits of Defunct Fossils, Baird's Soothing Syrup, Wendell's Universal Physic, Osborne's Elixir of Youth.

> They all sounded well, but I did not know which would have the desired result. So I reasoned that if I took them all, then it would directly follow by the process of elimination that I should get the right one, -Q. E. D. I took a drink from all, and started home with expectations of coming triumphs in the exams. But I did not get far. I began to feel the most unusual and extraordinary internal sensations. I felt like a set of complete chemical reactions,—the kind that Tommy Pope used to give us. My brain began to whirl. I reeled; the sidewalk came up and hit me, and I lost consciousness.

> Then a wonderful thing happened. It was again last October, and I was standing in the center of a vast and barren plain, which stretched away to plus and minus infinity, and then back on the other side. Near me was a large hole in the ground, beside which stood this sign:

> > ALL HOPE ABANDON YE WHO ENTER HERE.

MASS.

INST. OF

TECH

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The place looked familiar, so I descended and knocked at a door which bore the sign "Registrar's Office." The door opened,

and before I could speak a little red demon rushed out with a Technique whole pile of attendance, Bursar and registration cards, a fathom of roll slips, Y. M. C. A. notices, and the rest of the outfit. Assuming my most supercilious air, which I have learnt from the janitor at the Gym., I spoke. "Excuse me; I come not as a student," and I handed him my card, on which I had written as many degrees after my name as space and imagination allowed. With each degree his chilliness thawed a little, until his manner seemed 30° C warmer. Bowing low, he asked in humble tones what he could do for me. I told him I had come to observe the history and experiences of the Class of 1905 for the ensuing term.

He bowed again and conducted me through a long, dark passage to where thirteen doors led off, the ninth bearing the sign "No Admittance." "These," he said, "are the doors where the different courses enter; each has its own guardian fiend, who oversees the torture of the victims; the routes are difficult and beset with pitfalls and exams, and each has its own particular torments. These fiends are assisted by other fiends and imps known as "Destructors" and "Assistants." I will first show you those fiends who torment the Class of 1905."

We entered a spacious room which was wholly lighted by the luminaries who were seated within. The room was frescoed with F's and L's; in the centre was the Herian spring of knowledge, whose waters welled out into a small C, from which the water was carried in sieves to the students. The only pieces of furniture were hard wood logarithmic tables, upon which the fiends were inclined in various postures. In one corner Professor Dewey was conducting a monoply sale of syllabuses at twenty-five cents, marked down from a quarter, payable in U. S. or Bursar's bonds. Professor Norton, with his head in a water jacket and his feet in a hot mustard bath, was determining the thermal equivalent of two pints of "Chapel's Delight." C. Frank had a railway curve, like a halo, around his head, to keep the train of his thoughts from being sidetracked on his own theorems. Peabo was all snarled up in a discussion of whether the curve of metacenters really met anything, and if not, why not? Dr. Moore was trying the effect

Technique of a mixture of HCN and HAŝH on Ethyl Acetate. I saw, also, many other familiar faces.

"Now," said my guide, "I will show you some of the rooms where the torments of the class takes place." We now entered the Chemical Laboratories, where the smoke and fumes were so thick that nothing could be seen. I asked my guide if the fumes were not injurious to health. "No; quite the contrary," he assured me. "Nothing better could be imagined. It is so admirably fumigated that no germ can live here." We then ascended and descended innumerable flights of stairs, which, my guide told me, in strict confidence, were arranged by him and Dr. Tyler so that a student might get enough exercise to keep himself on the verge of sickness until the end of the term, when a judicious arrangement of exams is supplied to lay him up for the vacation. The severity of the exams are adjusted to the length of the vacation.

We now entered a room where drawing tables stretched away as far as the eye could see, and over which students were suspended (by Faculty vote) from the ceiling in a horizontal position by an ingenious arrangement of pulleys and ropes. "It keeps them tied down to business," commented my companion.

We again descended to where machinery of all kinds was makan unearthly din, and where a tremendous dynamo was supplying the F (or Ma) to operate a monstrous machine called the "Lanza Improved High-Pressure Three Phase Triple Flunk 5.60 Plunk Differentiator," into one end of which students were fed head first as V, and from the other were ejected as dV.

Finally we came to a hole in the ground, through which smoke and flame were issuing, and looking below, I beheld the glow and roar of countless fires, and felt the hot rush of gases on my cheek. My guide looked at me. "Is your courage good?" he said. "This is the Mining Lab., the worst torment we have yet devised." My heart failed me, but I replied, "Proceed." I cannot describe the horrible sights and agonies that I beheld below. In front of roaring furnaces, from which issued dancing jets of flame, stood those whom a terrible fate had consigned to this gruesome place. The heat was unbearable,—even above the highest limit of a Siebeck

pyrometer. My hair was singed, and before I could turn and flee **Technique** I was beginning to sizzle and boil. As I regained the outer air, I noticed a pleased smile on the face of my guide. "This is our chief joy and delight. When life seems dull, when flunks are coming slow, and C's are coming fast, when students seem con-

can always find comfort, and gratification."

tented with their lot, we always have this as a resort.

"Now," he said, "I must leave you. Yonder on the right are the members of the Junior Class, and you may accompany them for the rest of the term. I must return to keep an eye on Powers, to write the President's opening address, and to invent new ways for establishing the importance of my position." And turning a double back somersault, he disappeared in a cloud of sulphur and brimstone.

Then, before the phantasmagorical retina of the dreamatory cavities of my brain, hovered sundry incongruous and incoherent visions of the events of last term.

The first thing I noticed was that an annual malady, known as Class Elections, affected the Class. Each member had a mental delusion that he wanted an office for himself or for some particular friend. The effect of this disease was to give those that sought office a "swelled head," and the office was to go to him who developed the largest. The trial was made, the candidates placed back to back, and, lo! Amberg towered far above the rest!

The next scene I beheld was in a large field beside the river Charles. Crowds of students had come to see Field Day, the annual contest between the Sophs and Freshmen. The Juniors have won the day twice, and now did their best to help the Freshmen to victory; but the Freshmen were defeated. The Sophs are an inferior class, who, from intellectual incapacity, or willful ignorance, made the fatal mistake of coming to Tech a year too late or too soon, and both the Juniors and Freshmen endeavor to show them their folly.

Then I beheld Tech night at the Columbia. The crowd helped out the management by kindly offered suggestions, and showed their appreciation by cheers and comments, till I was reminded of some of Arlo's or Crosby's lectures. Technique

Then the scene changed, and I beheld the Class Dinner at the Union. Fond as Tech men are of eating, we all were willing to stop to witness the efforts of Whittemore to absorb his cigar or of the cigar to absorb Whittemore. Whittemore won on a foul.

Next, in rapid succession, and with kaleidosocopic effect, followed phantoms and phantasies of the week of Christmas fussing, the Tech hop, and concert, and the weeks of plugging before the exams.

And then came the exams themselves,—those terrors alike to the sport and grind. Now, I am not a psychologist, and do not even ride a bicycle, yet, for some reason, psychological or Lodgeical, the very thought of exams must have jarred some of the subvacuum cells of my superexaminated brain, for I regained consciousness and looked around.

I was in my room at home, with many anxious faces about the bed. The doctor, looking very serious, was just saying: "He must be kept very quiet. No, he will not be able to return to Tech this year."





Class of Mineteen Hundred and Six

2000

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A DETAILED COURSE

OF

QUALITATIVE TECHNOLOGICAL ANALYSIS

OF '06 SUBSTANCES,

WITH

EXPLANATORY NOTES.

PREFACE.

THE author desires to express his great indebtedness to Prof. A-th-r A. N-y-s, P. D. Q., for his valuable services in regard to the general features of the work and for his numerous suggestions, which have been of great service.

THE PROCESS OF ANALYSIS.

REDUCTION OF THE SOLUTION.

Procedure.—To the original solution add one year's experience at Tech, dilute with a summer's vacation after several rigid examinations. Add F until the solution has begun to decrease rapidly in volume. If it decreases

too rapidly try a petition. Add L until the solution turns pale, P to one half the volume, C sparingly. Filter and wash, adding the washings to '07.

- Notes.—1. If F is added in excess a great deal of trouble is caused in further work, and in some cases the student must begin over again.
- 2.—The petition is very seldom successful; too much reliance must not be placed upon it.
- 3.—The original solution is usually green, but it gradually loses its color in the process of analysis.

SEPARATION OF THE BASEBALL GROUP.

Procedure.—Treat the C_1 P_2 L_4 F_{∞} precipitate with a mid-year vacation. Return and add a class meeting. Produce a letter from the Advisory Council allowing no class baseball teams. Add immediately a vote of \$100 for baseball.

- Notes.—1. At this point the baseball element appears to be exceedingly prominent.
- 2. After neutralizing with a few days' practice this element may be readily reduced, leaving a precipitate which combines, forming a team.
- 3. The superiority of this compound was easily proved in the spring of 1903.

PRECIPITATION OF THE EPICUREAN GROUP.

Procedure.—After the \$100 treatment add several weeks, a Sophomore dinner, and a vote not to molest the Freshmen at their dinner. Add a trip to Gloucester in an auto, in search of a class president and toastmaster. Add a successful 1906 dinner. Discard disgusted 1905.

Notes .- 1. The following reaction takes place:

'05 dinner + member of Faculty = vote not to hinder '06 dinner.

'06 dinner + trip to Gloucester = disgusted 1905.

2.—Any Tech dinner + Prexy = dissertation on German student life.

SEPARATION OF THE ROUGH HOUSE GROUP.

Procedure.—Allow the solution to work for several weeks. Then to a dark night add a 1906 flag and some patriotic spirits. The next day add

the whole undergraduate body and some bags of flour. Then add some rushes, the Dean, a broken wire, a Tech editorial and two lawsuits. Collect the residue.

- Notes.—1. At this point in the procedure great care should be used to avoid the watchman. If the experiment is correctly carried out the spirits should not be detected.
- 2.—It should be noted that the action of the flour is simply catalytic, causing greater muscular activity.
- The Dean is added to prevent, as far as possible, too much effervesence.
- 4.—It is to be observed that nothing could go on without a Tech editorial.

Procedure.—After collecting the residue allow it to settle down a little; then subject it to some rigid examination; filter and wash, discarding the washings as before. Spread out the residue all over the country and leave it for several months. Collect, add Sir Walter, roll slips, attendance cards, etc. Add practice for Field Day, a tie score with the Harvard Freshmen, class meetings, assessments and an excess of Arlo. Wait until November seventh.

- Notes.—1. The settling down process is by way of preparation for the examination. If some of the lighter elements do not settle down, the examinations are not so satisfactory.
- 2. In that case make a more complete washing.
- Sir Walter is a rather unpleasant compound to deal with, and should be put under the hood.
 - 4. The practice for Field Day will be severely criticised by the Tech.

ANALYSIS OF THE FIELD DAY GROUP.

Procedure.—Add Charles River Park; acidify with a 1906 banner; warm to boiling point.

- 1. This precipitates a 1906 victory.
- 2. The following reaction takes place.
- M. I. T. '06 + football = 17

M. I. T. '07 + football = 0

M. I. T. '06 + relay = M. I. T. '06 (first) + -

M. I. T. '06 + Tug o' war = same reaction.

Adding, M. I. T. '06 + Field Day = M. I. T. '07-victory.

3. It is evident at this point that the Tech's argument is forcibly refuted.

TECH NIGHT PRECIPITATION.

Procedure.—Remove to the Columbia Theater. Add 1906 enthusiasm. Then add dainty chorus girls with '06 flags. Add more enthusiasm and some class cheers. If flush, adjourn to Charlie Wirth's.

Notes .- 1. The Solution at this point becomes more or less cloudy.

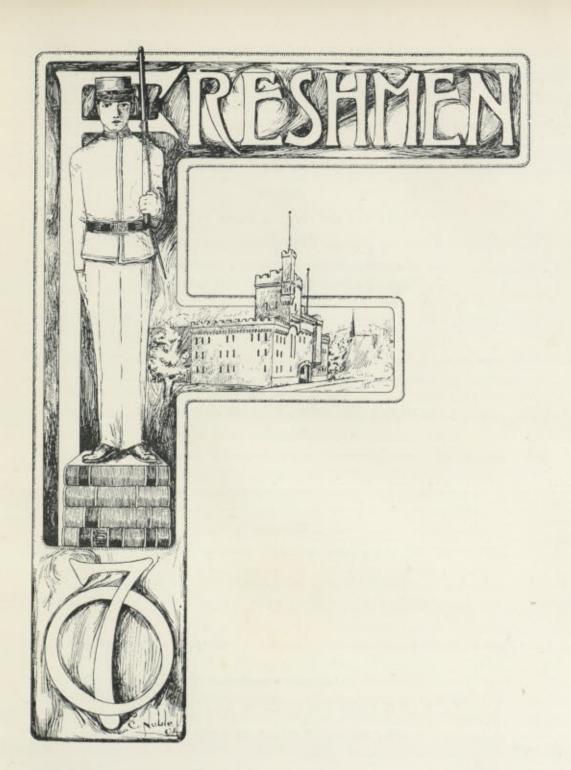
PRECIPITATION OF TECH EDITORIALS.

Procedure. After considerable time has elapsed, subject to more examinations, return, and add another Tech editorial to neutralize the above.

Notes.—1. The effect of physics and calculus should be carefully noted in the report.

The editorials are for the purpose of arousing interest in the election of the 1906 Technique Electorial Committee.

This experiment proves very effective. Check up lab. drawers and go home.



Class of Mineteen Hundred and Seven

1. J. J.

Officers

GEORGE WILLIAM OTIS

President

ALEXANDER MACOMBER

Vice President

JAMES HOLLAND MULCARE
Secretary

GEORGE APPLETON GRIFFIN
Treasurer

35

Directors

ERSKINE PHILLIPS NOYES ORRIN WILLIAM POTTER

30

Institute Committee

RICHARD CHESLEY ASHENDEN ERSKINE PHILLIPS NOYES

Freshman Class History

303030

UST when the history of the Class of 1907 began is an unknown quantity. The first time that we came together was when we took the "Prelims," which had been held up to us during the previous year, and for which we had been working nearly as hard and worrying more than if they had been the final trials for a place on the relay team of our "prep" school.

Next year we again met, and tried to establish the reputation of our old teachers. In September we wrote again with those who were taking all the examinations at once; we then tried to avoid conditions, and thoughtfully strove to fool the instructors by passing off first term's work, about which we knew nothing.

On the 29th of September, 1903, those of us who had received notice that we were admitted to the first class, began our real acquaintance with the Massachusetts Institute of Technology. I think that my experience of the first day or two is not very different from that of the other fellows, so with due respect to them I will tell what happened to me. The afternoon before the school year began I walked into Rogers corridor, and after gathering an armful of subject lists, roll slips, tabular views, attendance cards and other registration stuff, started to find a place where I could puzzle out what was required of me. I got hopelessly tangled up, and was just about to give it up as a bad job when an upper-class man, out of the kindness of his heart, offered to help me. Together we worked out a program until we came to chemistry, and then he sent me chasing all over the 'Stute to find Tommy Pope, and ask him if I knew enough to know that copper gains weight when it is burned. After a few other such difficulties were settled we had it arranged,

Technique

and I went home satisfied that in four years I would have an S.B. after my name and a dozen positions awaiting me.

That night some one told me that I could take shop-work, and as I wanted to get my money's worth I rearranged my program, and the next morning handed in a new set of cards. About a week later I received a notice that my program would be accepted when I had changed the greater part of it. Through many mistakes and changes I had, by the time it was satisfactorily fixed, visited nearly every Math. instructor, and was grateful for having escaped Miller and Wells, and was quite content to settle down with MacDonald.

Tech opened September 30th, and that afternoon we learned who "Free Hand Charlie" was. His reputation was sustained and his popularity assured when he told us that we could have a portfolio of his Letter Plates for \$2.00, and that old ones were of no use to us; also to pay \$1.50 for a coupon, and when we had learned to use our instruments and materials he would give us "Notes on Mechanical Drawing," covering what we already knew. After this lecture was over we paid about \$25.00 for our materials, and were ready to commence work.

The first week was an interesting one. We decided that Tech was a cinch; got mad at Sawyer when he said that our work was rotten, but laughed when he told the next fellow that his plate was a curiosity; the next that he ought to stop dreaming about the South Sea Islands; the next that he didn't know anything; and so on. We cursed the stairs that we had to climb to reach Chemistry and Drawing, and wished that the bannisters were free from knobs, so we could slide down. We decided that Blanchard did not know anything; that Talbot was all right; that the "little instructor" in Chemistry was easy; that the language teachers would do, and that Foljambe was the best man in the drawing rooms; we found that dodging cars on Boylston Street could be made to furnish some excitement, and that we had three Co-eds. We learned the pleasures of sitting on Rogers steps and found where "Chapel" was, and the uses and location of the "Cage." In short, in a week we had learned (or thought we had, which is the same thing) all the little points of interest about our class and section.

1905

The Y. M. C. A. gave us an invitation to come to the Union Technique one night to hear some people talk; meet our classmates and professors; have something to eat and become acquainted with the Tech songs. We went, and although we missed our Co-eds we left our bashfulness outside, and had a pretty decent time. We were glad to know our fellow-prisoners better, and to find that the professors could take off their class-room manners and have a good time with the boys. We heard President Pritchett for the second time, and were won by his simple, sensible talk. We knew that he was our friend, and we vowed that we would work for such a President.

About this time we had a class meeting. Most of us did not know the candidates, so they stood up in a row, and the class voted for the ones they thought best fitted for the positions. Otis was elected for his good looks; Middleton for his business-like manner; Rood because he seemed to have the self-assurance necessary to collect money; and the Constitution committee for their pugilistic appearance.

The call for money and for candidates for the teams came at about the same time. I don't know whether or not there is any connection between the two, but the fellows who don't play have to pay, and the ones who play generally have the better time. Woodward was the busy man where football was concerned, while Wonson called a roll every afternoon to see how many strong men had taken a bath. Noves, however, was the energetic man; failing to find a coach for the relay team he decided to save the money for the Class, and did the work himself. Daily he stood and watched the candidates as they ran around the Gymnasium or the track at Charles River Park. '07 bravely entered into the Fall games, and won enough points to show that in an all-round meet they could give a good account of themselves.

On October 14th we had a jolly good time at our dinner. The various things in which we should be interested were presented by the upper-class men, while each person gave us enough of his history to make us know our Class better. It was an enthuiastic gathering but our spirit had largely disappeared before Field Day.

Technique 1905

Field Day was sad. Briefly, the record was: '06 flags were displayed on the field; they won the football game 17-0; the relay race by fifty yards; the tug-of-war in less than a minute; and easily beat us.

After the last event was over both classes marched back to Boston, and by the brilliant scheme of running through Beacon Street, '07 gained possession of Rogers steps. They could have held them easily if their natural politeness had not forced them to allow some women to come out of the building, thus leaving one side of the steps defenseless.

In the evening everybody went to the Columbia Theater and enjoyed '07's weak attempt at making a noise. The football men sat in one place; the tug-of-war team in another; the runners in still another, while the remainder of the Class was scattered. The result was that any feeble burst of cheering was entirely drowned. Kid fashion, '07 delighted in the use of bean-blowers and other things indicative of their inclinations. '07 was certainly badly beaten in everything that day, but the experience and the criticisms will certainly be of benefit to us.

About a week after Field Day we got our first reports, and they were almost as encouraging as the contests had been. The F's were particularly prevalent in Chemistry, and one section swears that the papers were never examined at all, but simply marked F in wholesale lots.

Rather frightened by this report we settled down to work and to save money for Xmas, when we knew that we would have one whole glorious week in which to loaf. Thanksgiving Day was a short one, and we spent it largely in eating and sleeping. Christmas came, and although we would have preferred the next week we made the best of it, and spent it in fussing and other innocent diversions. We were given a royal welcome at home, and the good people were much surprised to know that we had not changed during our contact with the dreadful Institute of Technology.

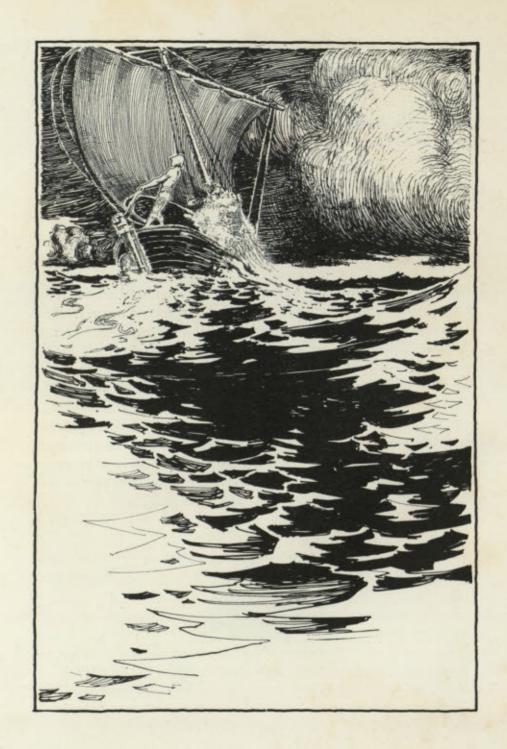
After Xmas came the Indoor Meet, and the glorious victory of '07 went a long way toward cleaning up Field Day. '07 got a first or second in every event but one, and beat all classes in the military

1905

relay race. Noyes and Barrows were the mighty Freshmen, Technique Noves winning six points and Barrows five. With our eleven points from the team race we defeated '04 by twelve and a half points, '05 by thirteen and a half, while the poor little Sophs were left behind to the tune of thirty and a half to twelve and a half.

Looking back on the first half of our course we find that it has, at least, been a splendid experience for us. We came from "prep" school, where we had done well in studies and athletics, and were rather inclined to have swelled heads. This feeling was increased when we were told that the entrance examinations for us had been harder than ever before, and that we were "a survival of the fittest"; we thought that if we had done well previously, without doubt we could get through Tech all right. The half year has taken such ideas from our heads, and has shown us rather effectively that we must work, and work hard, if we expect to succeed. We have found that there is a gap between "prep" school and college, and that very different methods are used in the latter from those in the former. It has shown us that Chemistry does not consist in making beautiful color combinations, but that it means hard work. We have seen that the work is going to be severe, but we know that others have done it, and why cannot we? During the half year we have not met all of our classmates, but we know some of them, and are glad to call them friends. On the whole we have enjoyed it, and shall remember with very pleasant feelings the first part of our course at the Massachusetts Institute of Technology.







the Breek Letter Fraternities

REPRESENTED AT

the Massachusetts Institute of Technology

363636

IN THE ORDER OF THEIR ESTABLISHMENT

Sigma Chi

1855	Gamma	Ohio Wesleyan University	Delaware, Ohio
1857	Eta	University of Mississippi .	University, Miss.
1858	Lambda	Indiana University	Bloomington, Ind.
1859	Xi	De Pauw University	Greencastle, Ind.
1859	Omicron	Dickinson College	Carlisle, Pa.
1860	Psi	University of Virginia	Charlottesville, Va.
1863	Theta	Pennsylvania College	Gettysburgh, Pa.
1864	Kappa	Bucknell University	Lewisburg, Pa.
1865	Rho	Butler College	Irvington, Ind.
1866	Zeta	Wash'n and Lee University	Lexington, Va.
1868	Mu	Denison University	Granville, Ohio
1869	Omega	Northwestern University .	Evanston, Ill.
1871	Chi	Hanover College	Hanover, Ind.
1872	Sigma Sigma	Hampden-Sydney College .	Hampden-Syd., Va.
1874	Gamma Gamma	Randolph-Macon College .	Ashland, Va.
1875	Delta Delta	Purdue University	Lafayette, Ind.
1876	Zeta Zeta	Centre College	Danville, Ky.
1877	Theta Theta	University of Michigan .	Ann Arbor, Mich.
1882	Zeta Psi	University of Cincinnati .	Cincinnati, Ohio
1882	Alpha Theta	Af T CT 1	
1882	Alpha Gamma	Ohio State University	Boston, Mass. Columbus, Ohio
1882	Alpha Zeta	Dalais Callana	Beloit, Wis.
1883	Alpha Epsilon	University of Nebraska .	Lincoln, Neb.
1883	Alpha Iota	Illinois Wesleyan University	
1884	Alpha Lambda	University of Wisconsin .	Bloomington, Ill. Madison, Wis.
1884	Alpha Xi	II.'. CV	Lawrence, Kan.
1884	Alpha Nu	University of Texas	
1886	Alpha Omicron	Tulane University	Austin, Texas New Orleans, La.
1886	Alpha Pi	Albien Cellere	Albion, Mich.
1886	Alpha Beta	University of California .	Berkeley, Cal.
1888	Alpha Sigma	University of Minnesota .	Minneapolis, Minn.
1889	Alpha Upsilon	Univ. of Southern Cal.	Los Angeles, Cal.
1890	Alpha Phi	Cornell University	Ithaca, N. Y.
1891	Alpha Chi	Pennsylvania State College	State College, Pa.
1891	Alpha Psi	Vanderbilt University	Nashville, Tenn.
1891	Alpha Omega	Leland Stanford, Jr., Univ.	Palo Alto, Cal.
1891	Карра Карра	TT	Champaign, Ill.
1892	Alpha	14' 'YT' '	
1892	Alpha Alpha	H.L. C.II	Oxford, Ohio
1893	Eta Eta	Dartmouth College	Geneva, N. Y.
1893	Lambda Lambda	Kentucky State College .	Hanover, N. H. Lexington, Ky.
	- Annie and Anni	training office conege .	Dexington, Ky.

1893	Alpha Rho	Lehigh University	Bethlehem, Pa.
1894	Nu Nu	Columbia University	New York, N. Y.
1894	Epsilon	Columbian University	Washington, D. C.
1895	Mu Mu	West Virginia University .	Morgant'n, W. Va.
1896	Phi Phi	University of Pennsylvania	Philadelphia, Pa.
1896	Tau	Roanoke College	Salem, Va.
1896	Xi Xi	Missouri State College .	Columbia, Mo.
1897	Omicron Omicron	University of Chicago	Chicago, Ill.
1899	Beta	University of Wooster	Wooster, Ohio
1899	Phi	Lafayette College	Easton, Pa.
1902	Rho Rho	University of Maine	Orono, Me.
1902	Alpha Eta	University of Iowa	Iowa City, Iowa
1903	Tau Tau	Washington University .	St. Louis, Mo.
1903	Upsilon Upsilon	University of Washington .	Seattle, Wash.



Sigma Chi

ALPHA THETA CHAPTER

Established 1882

Gratres

EDWARD TAYLOR BARRON
SYDNEY ATMORE CAINE
FRANK STEELE CRAVER
JOHN CHARLES DALY, JR.
JOHN DONALDSON
CHARLES WICKERSHAM ELMER
CHARLES ALVIN EMERSON, JR.
LEROY BERNARD FAYMONVILLE
WILLIAM BURDER FERGUSON, JR.
THORTON MERIWEATHER GILMER
FRANK DAVID HALL

RALPH CURTIS JORDAN
JAMES ALLEN KANE
HERMAN WILLIAM LACKMAN
WILLIAM HUGH LALLY
MORTIMER LIVINGSTON NAGEL
ALBERT SENIOR PRINCE
GEORGE AUSTIN QUINLAN
WILLIAM CLEMENTS RINEARSON, JR.
JAMES HAMPTON ROGERS
ROSS PELTON SCHLABACH
CLAYTON MILLER SIMMERS

CARL MARTIN WILLIAMS

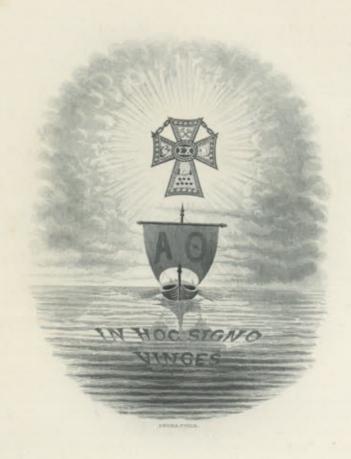
Fratres in Urbe

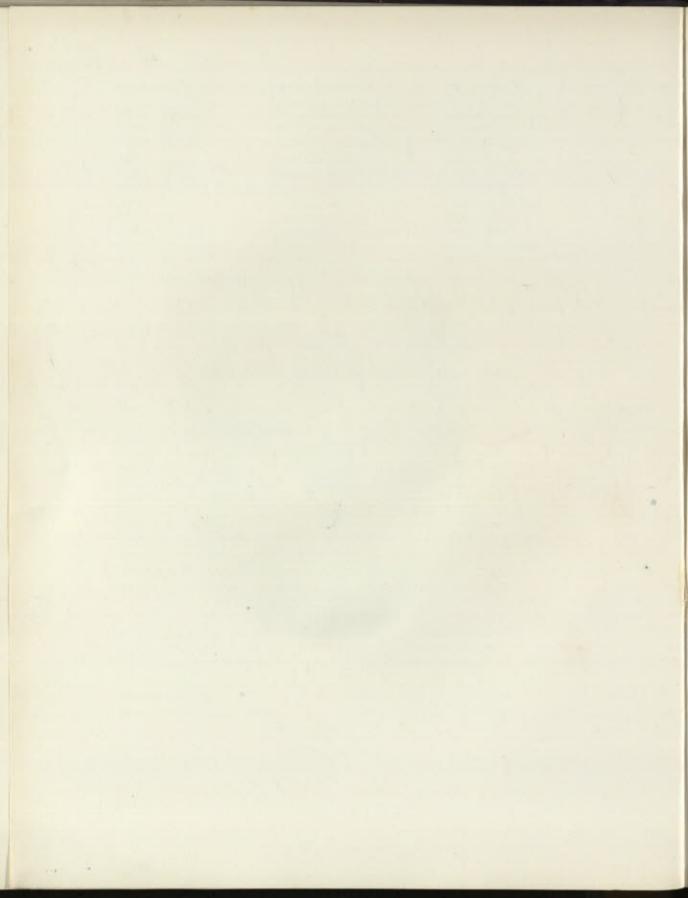
WINTHROP ALEXANDER
ARTHUR FRANCIS BARDWELL
JOHN ANDREW CURTIN
WILLIAM WORCESTER CUTLER
WINTHROP DAHLGREN
JOHN ASHLEY HIGHLANDS

LEON GILBERT MORRILL
JAMES STUART NEWTON
ARTHUR SEWALL PERCY
LUCIUS SPALDING TYLER
EDWARD PAYSON WHITMAN
EDWIN RUTHVEN STILWELL

RHODES GREENE LOCKWOOD

311 Beacon Street





Theta Xi

A	Rensselaer Polytechnic Institute .			1	. Troy, N. Y.
В	Sheffield Scientific School				New Haven, Conn.
Г	Stevens Institute of Technology .		2	2	Hoboken, N. J.
Δ	Massachusetts Institute of Technol	ogy		1	. Boston, Mass.
E	Columbia Schools of Engineering .		7	-2	New York, N. Y.
Z	Sibley School of Engineering .				. Ithaca, N. Y.

Theta Xi

DELTA CHAPTER

Established 1885

Gratres in Cacultate

HARRY ELSWORTH CLIFFORD HENRY GREENLEAF PEARSON

Wratres

ERWIN FERDINAND BENDER CARROLL CARY CURTIS ARTHUR DE WITT CLARK CURTIS ROCKWELL GRAY CHARLES EDWARD HOWES ROY GUTHRIE KENNEDY FREDERICK ELLWOOD LANGENHEIM ROY FISK LOVEJOY HAROLD KAY MERROW BENJAMIN MADERO JULIO MADERO CLARKE EDWARD WARREN

gratres in Urbe

ARTHUR HUMPHREYS ALLEY
WILLIAM CORNELL APPLETON
ALBERT FARWELL BEMIS
ALFRED MILLER BLINN
EDWARD LYMAN BROWN
MORTON EDDY COBB
HENRY MARSHALL CROSBY
HENRY JOHN CONANT
NATHAN BROWN DAY
FRANKLIN WHITNEY DOLIBER
JOHN COWPER EDWARDS
HORATIO SOUTHWORTH FRAZER

CHARLES HAYDEN
CHARLES BURTON HOWE
EDWARD JOHNSON, JR.
FREDERICK WAIT LORD
HENRY ADAMS MORSS
HERBERT STURGIS POTTER
JAMES HENRY REED, JR.
CLIFFORD HOPKINS SHIVERS
TIMOTHY WILSON SPRAGUE
JOHN WATSON TARBOX
JAMES WINTHROP TEWKSBURY
WALTER BACON TROWBRIDGE

HARRY HAYWARD YOUNG

137 Coolidge Street, Brookline



Deeks, Phila



Delta Psi

A	Columbia College .		-			. New York City
Δ	University of Pennsylvania				,	. Philadelphia, Pa.
	Trinity College					
Λ	Williams College .					Williamstown, Mass.
Ф	University of Mississippi		0.5			. Oxford, Miss.
Y	University of Virginia .		100			. Charlottesville, Va.
Σ	Sheffield Scientific School					. New Haven, Conn.
Т	Massachusetts Institute of	Techi	nology	20	39	. Boston, Mass.



TAU CHAPTER

LOUIS GUSTAVE BOUSCAREN, JR.
KENNETH HULBERT DISQUE
HARRY WALKER DONALD
HENRY LINCOLN GREEN
GEORGE BATES HARRINGTON
ANDREW HOPEWELL HEPBURN
BRADFORD BUTRICK HOLMES
CYRUS HENRY LOUTREL
KENNETH OLWELL MAJOR

Benjamin Nields, Jr.
Orrin William Potter
John Randolph Reyburn
Edward Minor Richardson
William Hampden Sage, Jr.
Allan Seymour
Norman Leslie Snow
Edward Thomas Steel, 2d.
Robert Edward Lee Taylor

JULIAN MAY WRIGHT

6 Louisburg Square



STATISTICS PHONE



Chi (phi

A University of Virgini	a					. Charlottesville, Va.
B Massachusetts Institu						Boston, Mass.
Γ Emory College .	1		¥		1	Oxford, Ga.
Δ Rutgers College .		*				New Brunswick, N. J.
E Hampden-Sydney Co	llege	2	4	201	20	Hampden-Sydney, Va.
Z Franklin and Marsha	ill Col	lege				. Lancaster, Pa.
H University of Georgi	a				1150	Athens, Ga.
⊗ Rensselaer Polytechn						
I Ohio State University	y	46			0.00	. Columbus, Ohio
A University of Californ	nia					Berkeley, Cal.
M Stevens Institute of	Techn	ology				. Hoboken, N. J.
N University of Texas			*			Austin, Texas
■ Cornell University	4	725	2		7.25	. Ithaca, N. Y.
O Sheffield Scientific Sci	chool,	Yale	Unive	rsity	18	. New Haven, Conn.
P Lafayette College		5			74	Easton, Pa.
∑ Wofford College					141	. Spartansburg, S. C.
						. Amherst, Mass.
X Dartmouth College	24	227	0	12	535	. Hanover, N. H.
Ψ Lehigh University					-	South Bethlehem, Pa.

Chi (Phi

BETA CHAPTER

Established 1890

James Lee Ackerson
Laurance Montjoy Buck
Neil Davis Emerson
John Evans
Julius Augustus Furer
Alfred W. Geist, Jr.
William Clarkson Giffing
Frederick Bertine Guest
Lucius Felt Hallet
Robert Stavely Hamilton
Sidney Morgan Henry
Edwin Bruce Hill

JOHN HAMPDEN HOLLIDAY, JR.
EMORY GILFILLAN HUKILL
EDWIN ROLAND HUMPHREY
JAMES MCCLURG LAMBIE
CHARLES GREELY LORING
LEWIS BOWEN MCBRIDE
NATHAN ATHERTON MIDDLETON
THEODORE PARKER MOOREHEAD
FREDERIC NICKERSON
GEORGE HARDY POWELL
RUSSELL PETER RAYNOLDS
EDWIN LAWRENCE SMITH

MERRICK EUGENE VINTON, JR.

261 Newbury Street





Delta Rappa Epsilon

	20,100					
Phi	Yale University				100	1844
Theta	Rowdoin College					1844
Xi	Color Chircuster			14	240	1845
Sigma	Amnerst College	140				1846
Gamma	Vanderbilt University			14		1847
Psi	University of Alabama					1847
Upsilon	Brown University					1850
Chi	University of Mississippi					1850
Beta	University of North Car	olin	a .			1851
Eta	University of Virginia			9	152	1852
Kappa	Miami University					1852
Lambda	Kenyon College				35.	1852
Pi	Dartmouth College					1853
Iota	Central University of Ke	entu	icky	12		1854
Alpha Alpha	Middlebury College					1854
Omicron	Middlebury College University of Michigan		-			1855
Epsilon	Williams College			*		1855
Rho	Williams College Lafayette College		-			1855
Tau	Hamilton College					1856
Mu	0 1 ** 1					1856
Nu	College of the City of N	ew	York	2		1856
Beta Phi	University of Rochester			8		1856
Phi Chi	Rutgers College			3.11		1861
Psi Phi	De Pauw University					1866
Gamma Phi	Wesleyan University					1867
Psi Omega	Renssalaer Polytechnic I					1867
Beta Chi	Adelbert College					1868
Delta Chi	Cornell University					1870
Delta Delta	Chicago University		34.1			1870
Phi Gamma	Chicago University Syracuse University Columbia College . University of California	*	0.50	**		1871
Gamma Beta	Columbia College		137	*	- 15	1874
Theta Zeta	University of California		1.5			1876
Alpha Chi	Trinity College .	0		Š		1879
Phi Epsilon	University of Minnesota	÷				1889
Sigma Tau	Massachusetts Institute	of T	Cechno	loov		1890
Tau Lambda						1898
Alpha Phi	Tulane University University of Toronto					1898
Delta Kappa	University of Pennsulvan	10		*		1899
Tau Alpha	University of Pennsylvan	ist	*			1901
Sigma Rho	McGill University Leland Stanford, Jr., Un	· ·	eite.	(4)		1901
oigina Kilo	Leiand Stanford, Jr., Un	iven	SILV	W	1	1902

Delta Rappa Epsilon

SIGMA TAU CHAPTER

Established 1890

Fratres in Facultate

ALFRED EDGAR BURTON

GEORGE VINCENT WENDELL

Gratres

ARTHUR JOHN AMBERG
CHARLES LYMAN ANSON
JOHN FORD CARD
ROBERT KEEP CLARKCHARLES WOLSTON COFFIN
THEODORE AUGUSTINE DISSEL
EMMET JOSEPH DWYER
HENRY DOUGLAS EATON
DAVID ELWELL
CHARLES JOSEPH EMERSON
EDWARD CHESTER GRANT
WHEATON IRA GRIFFIN
PHILIP EDWARD HINKLEY
ROBERT RISHWORTH JORDAN

WILLIAM JARED KNAPP
CURRIER LANG
NORMAN LOMBARD
ANDREW OTTERSON MILLER
BLAINE HESTON MILLER
GEORGE WILLIAM OTIS
STEPHEN KENDALL POOLE
EARL HOWELL REED, JR.
WINSLOW DAVIS ROBINSON
WALDRON PAGE SCHUMACHER
ERNEST MAXWELL SMITH
PRESTON MORRIS SMITH
HERBERT MYGATT WILCOX
CLARENCE BENTON WILLIAMS

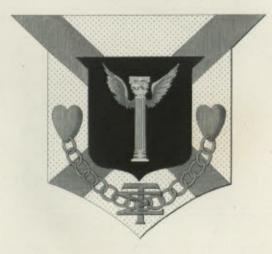
Kratres in Urbe

THOMAS BUTLER BOOTH
HOWELL FISHER
WILLIAM STUART FORBES
ISAAC BREWSTER HAZELTON
WALTER HUMPHREYS
ALLEN WINCHESTER JACKSON
HENRY ORLANDO MARCY, JR.

LEONARD METCALF
BENJAMIN F. W. RUSSELL
WILLIAM OTIS SAWTELLE
MAURICE DE KAY THOMPSON, JR.
JOHN ALDEN TROTT
EDWARD AUSTIN TUCKER
RALPH SPELLMAN WHITING

215 Newbury Street







FILLIST T. PSTILA.



Phi Beta Epsilon

Je 36 36

LOCAL AT TECHNOLOGY

Phi Beta Epsilon

Established 1890

gratres.

RICHARD CHESLEY ASHENDEN
GEORGE EDWIN ATKINS
FRANCIS GEORGE BALDWIN
MAXWELL ALANSON COE
EDGAR BAILEY COOPER
PHILIP GRENVILLE DARLING
WILLIAM FRANKLYN ENGLIS
SAMUEL ARNOLD GREELEY
ERNEST HARRAH
WALTER TURNER HOOVER

WALTER AUSTIN HOPKINS
MILTON TURNLEY LIGHTNER
WILLIAM COOLBOUGH MARSH
ANTHONY PAUL MATHESIUS
ALBERT MANTON READ
BERTAM ALLEN RICHARDSON
LEBARON TURNER
WALTER HAYWOOD TRASK, JR.
WILLIAM MARTIN VAN AMERINGE
JOSEPH DAMON WHITTEMORE

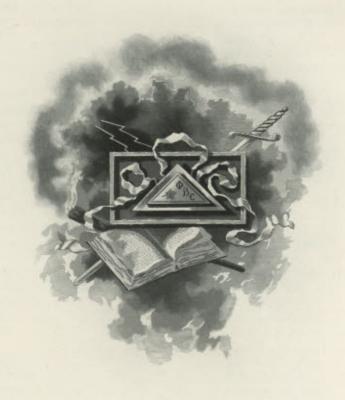
Gratres in Urbe

GEORGE RUTHERFORD ANTHONY
HARRY NELSON ATWOOD
STEPHEN BOWEN
RICHARD BAKER DERBY
GEORGE ISAAC FISKE
SUMNER HATHERLY FOSTER
ANDREW DANIEL FULLER
DURELLE GAGE
DAVID EDGERTON GREY
GEORGE WELLINGTON HAYDEN

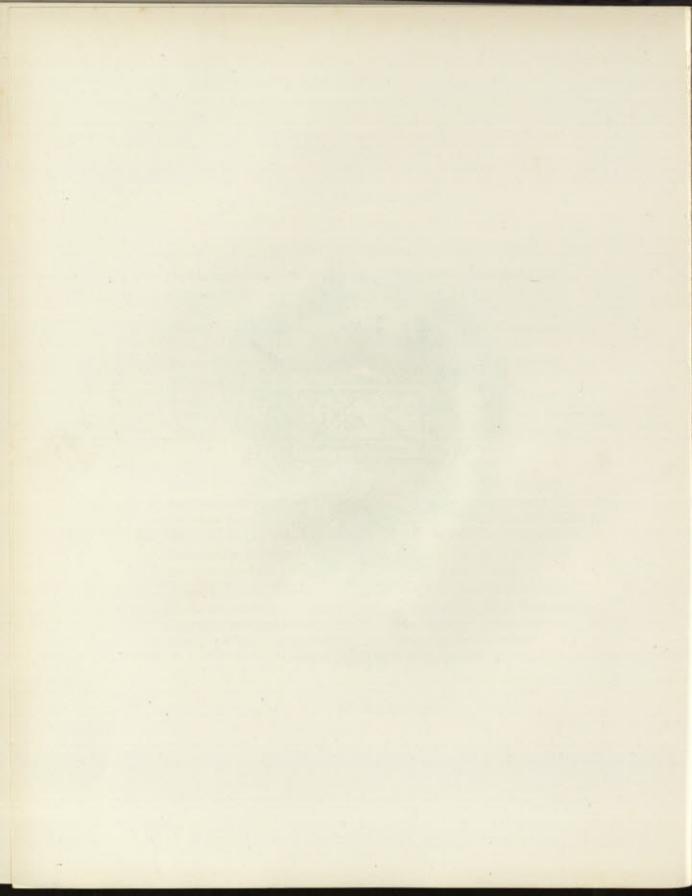
SHELDON LEAVITT HOWARD
HARRY GEORGE JOHNSON
GEORGE WHITEFIELD FAY REED
THOMAS PENDLETON ROBINSON
CHARLES ADRIAN SAWYER, JR.
RALPH EDMUND SAWYER
WALTER MULLIKEN STEARNS
WILLIAM COOLIDGE THALHEIMER
JOHN GIFFORD THOMPSON
WILLIAM EATON WEST

HENRY THORNTON WINCHESTER

237 Beacon Street



Shanner Stone



Delta Upsilon

Founded at Williams College, 1834

Chapter Roll

			C	lapter	Roll		
1834	Williams .						Williamston, Mass.
1838	Union .				3		Schenectady, N. Y.
1847	Hamilton					0	Clinton, N. Y.
1847	Amherst .					2	Amherst, Mass.
1847	Adelbert .			10			Cleveland, Ohio
1852	Colby .						Waterville, Me.
1852	Rochester						Rochester, N. Y.
1856	Middlebury						Middlebury, Vt.
1857							Brunswick, Me.
1858	Rutgers .	**					New Brunswick, N. J.
1860					1000		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		10			21	Ann Arbor, Mich.
1880	Northwestern		*	4		4	Evanston, Ill.
1880	Harvard .		+:				Cambridge, Mass.
1885	Wisconsin						Madison, Wis.
1885	Lafayette .						Easton, Pa.
1885							New York City
1885	Lehigh .					*::	South Bethlehem, Pa.
1886	Tufts .						West Somerville, Mass.
1887	De Pauw		20				Greencastle, Ind.
1888	Pennsylvania						Philadelphia, Pa.
1890							Minneapolis, Minn.
1891	Technology		*		7 3		Boston, Mass.
1894	Swathmore		100				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

Gratres in Cacuftate

FRANK VOGEL

LOUIS DERR

Kratres

MIGUEL AHUMADA, JR. RUTHERFORD BINGHAM ALBERT SHIRLEY BLACK ARTHUR WILLIAM BLAKE FRANK STEPHENSON DANFORTH ALBERT HENRY DONNEWALD CHARLES DEAN KLAHR FRANCIS FIELDING LONGLEY HUBERT MERRYWEATHER WILLIAM DUFFIELD BELL MOTTER, JR. GEORGE MORRIS WINNE

HOWARD J. MORTON ROBERT PORTER NICHOLS CHARLES LORING RODGERS ROBERT WYNDHAM SEYMS DONALD ARGYLE STEWART SIDNEY TALBOT STRICKLAND GILBERT SANDERS TOWER WALDSO TURNER JAMES RICE WILLIAMS

EDWARD THRASHER WILLIAMS

Kratres in Urbe

Joshua Atwood, 3D. GEORGE PHILLIPS DIKE CHARLES DUNN CHARLES WARREN HAPGOOD JOHN WINSLOW HORR WILLIAM SPENCER HUTCHINSON FRANK BALDWIN JEWETT PHILIP JOHN KEARNEY ARTHUR SAMUEL KEENE ALBERT LINCOLN KENDALL

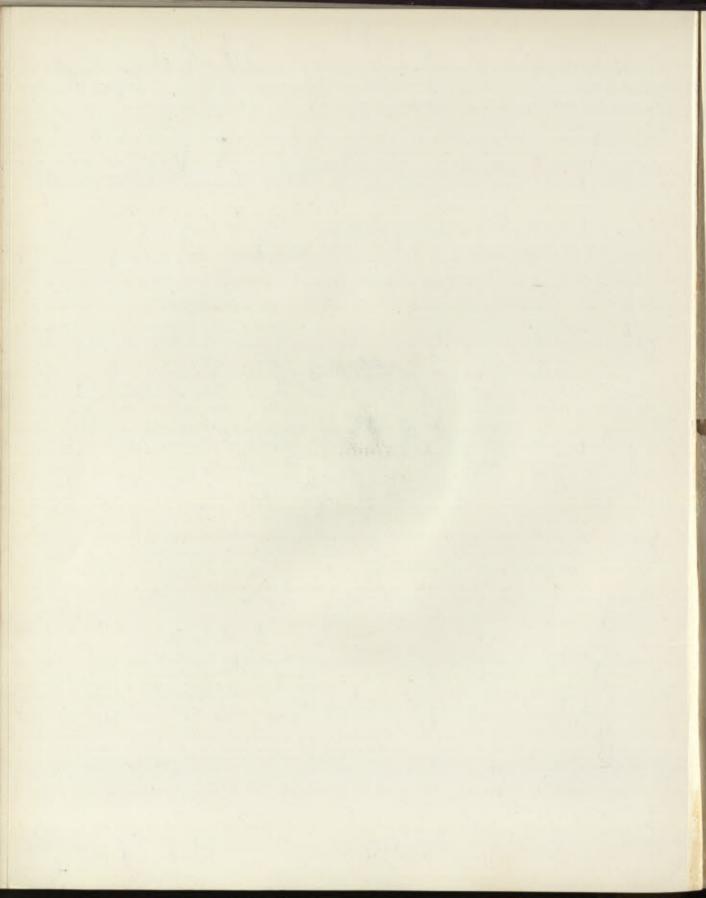
WALTER ELBRIDGE PIPER THOMAS GLEASON RICHARDS MILES STANDISH RICHMOND GARDNER ROGERS JOHN CARLTON SHERMAN CLIFFORD MELVILLE SWAN ALFRED BALL TENNEY EVERETT PENDELTON TURNER HOWARD CHUBBUCK TURNER HARRY WARREN UPHAM

WILLIAM CORTELYOU WHISTON

264 Newbury Street



ELLERY PHILA



Sigma Alpha Epsilon

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

Chapter Roll

Maine Alpha	University of Maine	Orono, Me.
Massachusetts Iota Tau	Massachusetts Institute of Technology	Boston, Mass.
Massachusetts Beta Upsilon	Boston University	Boston, Mass.
Massachusetts Gamma	Harvard University	Cambridge, Mass.
Massachusetts Delta	Worcester Polytechnic Institute .	Worcester, Mass.
New York Alpha	Cornell University	Ithaca, N. Y.
New York Mu	Columbia University	New York, N. Y.
New York Sigma Phi	St. Stephens College	Annandale, N. Y.
Pennsylvania Omega	Allegheny College	Meadville, Pa.
Pennsylvania Sigma Phi	Dickinson College	Carlisle, Pa.
Pennsylvania Alpha Zeta	Pennsylvania State College	State College, Pa.
Pennsylvania Zeta	Bucknell University	Lewisburg, Pa.
Pennsylvania Delta	Gettysburg College	Gettysburg, Pa.
Pennsylvania Theta	University of Pennsylvania	Philadelphia, Pa.
Virginia Omicron	University of Virginia	Charlottesville, Va.
Virginia Sigma	Washington and Lee University	Lexington, Va.
North Carolina Xi	University of North Carolina	Chapel Hill, N.C.
North Carolina Theta	Davidson College	Davidson, N. C.
South Carolina Gamma	Wofford College	Spartansburg, S.C.
Georgia Beta	University of Georgia	Athens, Ga.
Georgia Psi	Mercer University	Macon, Ga.
Georgia Epsilon	Emory College	Oxford, Ga.
Georgia Phi	Georgia School of Technology	Atlanta, Ga.
Michigan Iota Beta	University of Michigan	Ann Arbor, Mich.
Michigan Alpha	Adrian Calless	Adrian, Mich.
Ohio Sigma	Mount Union College	Alliance, Ohio
Ohio Delta	Ohla Washam W. L.	Delaware, Ohio
Ohio Epsilon	University of Cincinnati	Cincinnati, Ohio
Ohio Theta	Oh! - Care II.	Columbus, Ohio
Indiana Alpha	m 111 m 11	Principal Control of the Control of
Indiana Beta	Purdua Universita	Columbus, Ind. Lafayette, Ind.
Illinois Psi Omega	Northwest Walnut	Evanston, Ill.
Illinois Beta	TT. 1. C. YILL 1	
Illinois Gamma	TT 1 1 / COL1	Champaign, Ill. Chicago, Ill.
Kentucky Kappa	Control Halounte	DESCRIPTION OF THE PROPERTY OF
Kentucky Iota	Pathal Callana	Richmond, Ky.
Kentucky Epsilon	Kentucky State College	Russelville, Ky.
Tennessee Zeta	Southwestern Presbyterian University	Lexington, Ky. Clarksville, Tenn.
Tennessee Lambda	Company of the second	
Tennessee Mu	Y7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lebanon, Tenn.
Tennessee Kappa	Plat of the Company	Nashville, Tenn.
Tennessee Omega	** 1	Knoxville, Tenn.
- San	University of the South	Sawanee, Tenn.

Tennessee Eta Alabama Mu Alabama Iota Alabama Alpha Mu Mississippi Gamma Missouri Alpha Missouri Beta Nebraska Lambda Pi Arkansas Alpha Upsilon Kansas Alpha Texas Rho Colorado Chi Colorado Zeta Colorado Gamma California Alpha California Beta Louisiana Tau Upsilon Louisiana Epsilon Minnesota Alpha Wisconsin Alpha

Southwestern Baptist University Jackson, Tenn. University of Alabama Tuscaloosa, Ala. Greenboro, Ala. Southern University . Auburn, Ala. Alabama Polytechnic Institute . University of Mississippi . Oxford, Miss. University of Missouri Columbia, Mo. St. Louis, Mo. Washington University University of Nebraska Lincoln, Neb. University of Arkansas Fayetteville, Ark. University of Kansas Lawrence, Kan. University of Texas . Austin, Texas Boulder, Col. University of Colorado Denver University . Denver, Col. Colorado School of Mines. Golden, Col. Leland Stanford, Jr., University Palo Alto, Cal. Berkeley, Cal. University of California . Tulane University . New Orleans, La. Baton Rouge, La. Louisiana State University Minn'olis, Minn. University of Minnesota . University of Wisconsin . Madison, Wis.



Sigma Alpha Epsilon

MASSACHUSETTS IOTA TAU CHAPTER

ROLAND HUNNEWELL BALLOU
ASA JONES BIGGS [Tenn. Eta]
HERMAN OTTO BLATT
WILLIAM BRENTON BOGGS
CHARLES REID BOGGS
WILLIAM HOSMER EAGER
JOSEPH HALL FEEMSTER, JR.
WILLIAM GREEN
NATHAN JACKSON GIBBS
CARL HERMAN GRAESSER
JOSEPH KENTIGERN HEYDON
HAROLD GARFIELD HIXON
CARL ALFRED HOUCK

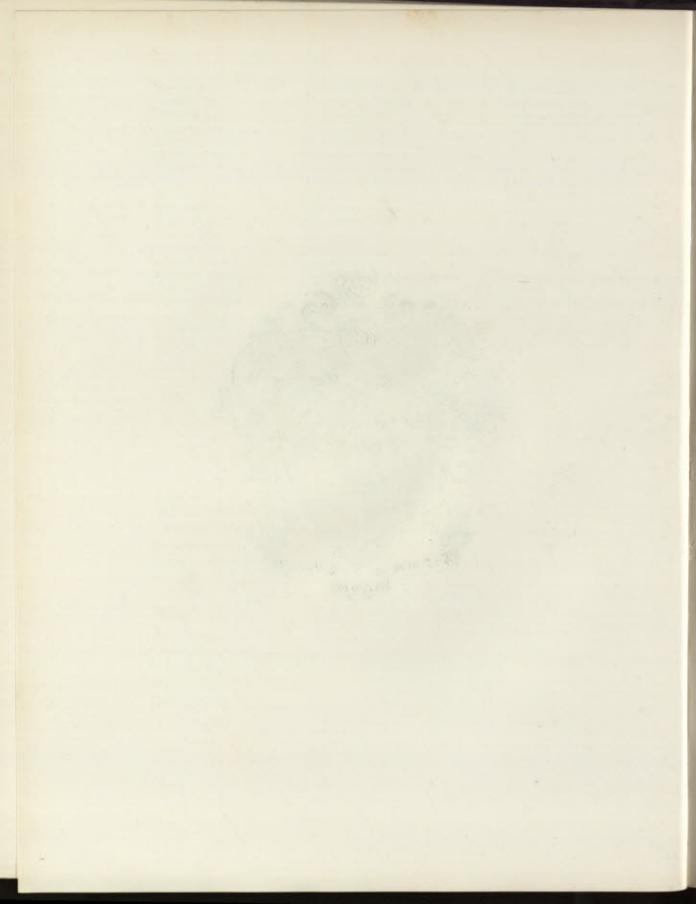
CHARLES ROSS LITTIG
WILLIAM NEILSON
HENRY GEORGE NICHOLAS
UTAR JAMES NICHOLAS
CLARENCE A. NEAL [Mo. Alpha]
OCTAVIUS LIBBEY PEABODY
FRANK EDWARD PAYNE
GEORGE WILLIAM PRENTISS
EDWARD FARNUM ROCKWOOD
HENRY CHRISTIAN SCHAEFER
RALPH LEROY SEGAR
JEAN PHILIP VARIAN
WILLIAM HAROLD WARNOCK

LEWIS GAMALIEL WILSON [Tenn. Zeta] [Mass. Delta]

263 Newbury Street



ELLITTY PHILE



Phi Bamma Delta

Established 1848

Chapter Roll

Alpha	Washington and Jefferson College	Washington
Lambda	De Pauw University	Greencastle,
Nu	Bethel College	Russelville,
Beta Deuteron	Roanoke College	Salem, Va.
Omicron	Roanoke College	Charlottesvi
Xi	Pennsylvania College	Gettysburg,
Pi	Allegheny College	Meadville,
Tau	Hanover College	Hanover, In
Epsilon	City College of New York	New York,
Psi	Wabash College	Crawfordsvi
Omega	Columbia University	New York,
Alpha Deuteron	Illinois Wesleyan University .	Bloomington
Gamma Deuteron	Knox College	Galesburg,
Zeta Deuteron	Washington and Lee College .	Lexington,
Theta Deuteron	Ohio Wesleyan University	Delaware, C
Zeta	Indiana State University	Bloomingto
Delta Deuteron	Hampden-Sydney College	Hampden-Sy
Nu Deuteron	Yale University	New Haven
Omicron Deuteron	Ohio State University	Columbus,
Beta	University of Pennsylvania	Philadelphia
Pi Deuteron	University of Kansas	Lawrence, F
Delta	Bucknell College	Lewisburg,
Lambda Deuteron	Denison University	Granville, C
Rho Deuteron	Wooster University	Wooster, Ol
Sigma Deuteron	Lafayette College	Easton, Pa.
Sigma	Wittenburg College	Springfield,
Zeta Phi	William Jewell	Liberty, Mo
Delta Xi	University of California	Berkeley, C
Theta Psi	Colgate University	Hamilton N
Delta Chi	Lehigh University	Bethlehem,
Gamma Phi	Pennsylvania State College	State Colleg
Iota Mu	Mass. Institute of Technology .	Boston, Mas
Kappa Nu	Cornell University	Ithaca, N. Y
Mu Sigma	University of Minnesota	Minneapolis
Rho Chi	Richmond College	Richmond,
Beta Mu	Johns Hopkins	Baltimore, N
Kappa Tau	University of Tennessee	Knoxville,
Pi Iota	Worcester Polytechnic Institute .	Worcester, !
Nu Epsilon	New York University	Univ. Heigh
Alpha Chi	Amherst College	Amherst, M
Tau Alpha	Trinity College	Hartford, C

on, Pa. e, Ind. Ky. ille, Va. , Pa. Pa. nd. N. Y. ville, Ind. N.Y. on, Ill. III. Va. Ohio on, Ind. Sydney, Va. n, Conn. Ohio ia, Pa. Kan. Pa. Ohio Dhio , Ohio o. Cal. N. Y. Pa. ge, Pa. ass. Υ. is, Minn. Va. Md. Tenn. Mass. ghts, N.Y. Mass. Conn.

Chi	Union College	600	4.	Schenectady, N. Y.
Mu	University of Wisconsin		-	Madison, Wis.
Phi Iota	University of Illinois .	- 33		Champaign, Ill.
Lambda Nu	University of Nebraska .		-	Lincoln, Neb.
Chi Mu	University of Missouri .		41	Columbia, Mo.
Omega Mu	University of Maine .			Orono, Me.
Sigma Tau	University of Washington	-		Seattle, Wash.
Delta Nu	Dartmouth College .	45	4	Hanover, N. H.
Sigma Nu	University of Syracuse .	57800		Syracuse, N. Y.
Theta	University of Alabama .			Tuscaloosa, Ala.
Tau Delta	University of Texas .			Austin, Texas
Xi Delta	Adelbert College	-		Cleveland, Ohio
Alpha Iota	Purdue University .			Lafayette, Ind.
Pi Rho	Brown University			Providence, R. I.
Chi Epsilon	Chicago University .			Chicago, Ill.
Alpha Theta	University of Michigan	+3	*	Ann Arbor, Mich.



Phi Gamma Delta

IOTA MU CHAPTER

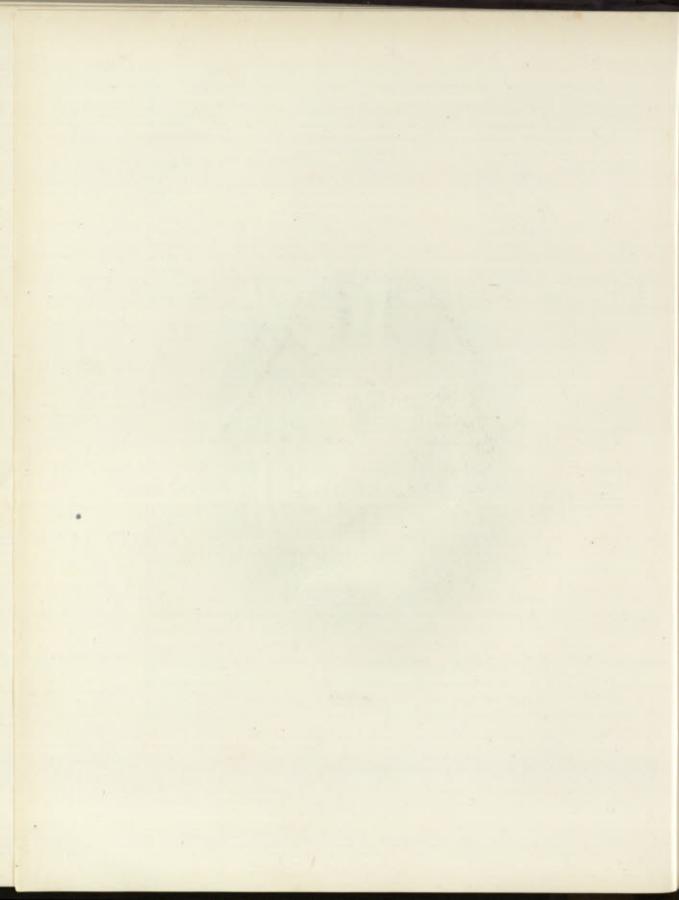
WALTER GEORGE DE STEIGUER
HAROLD CLAPP STETSON
WINFRED ALBERT TAYLOR
RAYMOND WARE
WALTER BREVOORT WYMAN
JAY WILLIAM WILLIAMS, JR.
ERNEST GAIL SCHMEISSER
MERRITT BEACH MERWIN
ROBERT RAND
JAMES BENIDICT PACKARD
EMIL WILKINSON
HERBERT JAMES MANN
ROBERT EUGENE KEYES
PHELPS NASH SWETT

EVERETT SHACKELFORD CASON
FREDRICK CLARK DURANT, JR.
QUINCY PIERCE EMERY
FREDERICK LYLE HIGGINS
ELMER ALLEN HOLBROOK
RALPH OSBORNE INGRAM
FREDERICK SCHUYLER KRAG
JOSEPH THOMAS LAWTON, JR.
BEN EDWIN LINDSLY
ALPHEUS LYON
MARK GRAHAM MAGNUSON
PAUL MCCLARY PAINE
THOMAS COULSON PINKERTON
LANE SCHOFIELD

74 Marlborough Street



WALLEST, PHILA



Phi Sigma Kappa

Chapter Roll

1070	11.1	
1873	Alpha	Massachusetts Agricultural College
1888	Beta	Union University
1889	Gamma	Cornell University
1891	Delta	West Virginia University
1893	Epsilon	Yale University
1896	Zeta	College of the City of New York
1897	Eta	University of Maryland
1897	Theta	Columbia University
1899	Iota	Stevens Institute of Technology
1899	Kappa	The Pennsylvania State College
1899	Lambda	The Columbian University
1900	Mu	University of Pennsylvania
1901	Nu	Lehigh University
1902	Xi	St. Lawrence University
1902	Omicron	Massachusetts Institute of Technology
1903	Pi	Franklin and Marshall College
1903	Rho	Queens University
1903	Sigma	St. Johns College

Roll of Clubs

The New York Club	1889
The Boston Club	1897
The Albany Club	1900
The Connecticut Club	1901
The Southern Club	1902

Phi Sigma Kappa

OMICRON CHAPTER

Established 1902

gratres.

HAROLD GILLILAND CRANE
WILLIAM STRACHAN GOUINLOCK
RALPH NIMS WHITCOMB
JOHN DELANEY McQUAID
HARRY TEBBETTS ROLLINS
WILLIAM WALTER CRONIN

WILLIAM ARTHUR KEMPER
THOMAS BARLOW HOLMES
CHARLES LAKE DEAN
GEORGE CHOATE FURNESS
EDWARD MASON READ, JR.
FREDERICK EUGENE BANFIELD, JR.

FRANKLIN RIPLEY, JR.

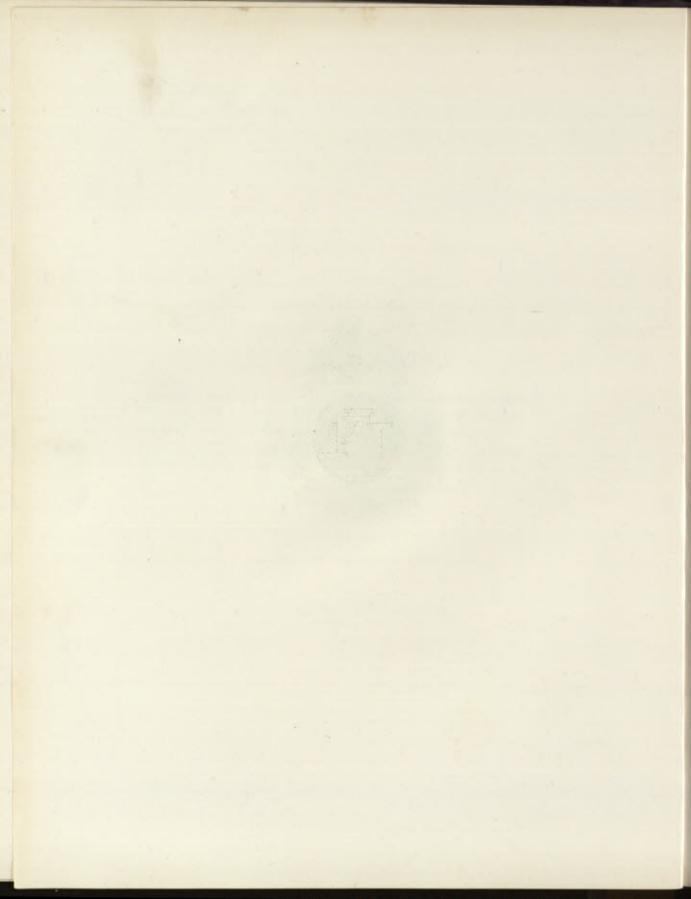
Grater in Urbe

ARTHUR NELSON HASTINGS

197 Longwood Avenue, Brookline



Staurer Penns



Delta Cau Delta

Established at Bethany College, 1859

Chapter Roll southern division

Λ	7.67		276.276	100000000000000000000000000000000000000	Vanderbilt University
п	1350			0.55	University of Mississippi
Ф		-		- 12	Washington and Lee University
BE					Emory College
B _Θ	100		- 0	100	University of the South
BI	*				University of Virginia
B≡	Gran .			1	Tulane University
ГН	-				Columbian University
111	0040		WES	TERN I	DIVISION
0			***************************************	LEKH	
	1.5	- 1			University of Iowa
ВГ	- 2				University of Wisconsin
BH					University of Minnesota
BK	114				University of Colorado
ВП	100			565	Northwestern University
BP		2.	14	8.4	Leland Stanford, Jr., University
BT	100		1.9	(10)	University of Nebraska
BY	100			0.00	University of Illinois
ΒΩ				1000	University of California
ГА				9.00	University of Chicago
ГВ	5.0			(*)	Armour Institute Technology
TΘ		*	22		Baker University
			NORT	HERN	DIVISION
В					Ohio University
Δ			- 10		University of Michigan
E			-		Albion College
Z					Adelbert College
K					Hillsdale College
M					Ohio Wesleyan University
X					Kenyon College
BA					Indiana University
BB	2	-			De Pauw University
BZ			15		Butler College, University of Indianapolis
ВФ	20		-		Ohio State University
ВΨ					Wabash College
$\Gamma\Delta$	-		-		University of West Virginia
	*.		EAST	ERN I	DIVISION
A			370	17	Allegheny College
Г	-			- 1	Washington and Jefferson College
					** asimigron and Jenerson Conege

P	23	7	-	27	Stevens Institute of Technology
Y	-		1	1.0	Rensselaer Polytechnic Institute
Ω					University of Pennsylvania
BA					Lehigh University
BM					Tufts College
BN	200			190	Massachusetts Institute of Technology
ВО					Cornell University
BX			1 .		Brown University
ГГ				11.0	Dartmouth College
ГЕ					Columbia University
ΓZ	2				Wesleyan University



Delta Cau Delta

BETA MU CHAPTER

Gratres.

FRED HATHAWAY ABBOTT ROBERT HARBISON BOOTH CLEM CLARE CARHART FRANK MILTON CARHART FRANK SPENCER ELLIOTT ROBERT MORSE FOLSOM ARTHUR PETERSON GERRY FRANK EMMONS GUILD GEORGE FOSTER HOBSON

HENRY FRANCIS LEWIS ELLIOTT LUM FRANK LEE NILES EUGENE PHELPES WILLISTON CANFIELD RICH ARTHUR SCOTT THOMAS FREMONT NELSON TURGEON WILLIAM HENRY PRENTICE WRIGHT BARTOLETTE ARTMAN YODER

gratres in Urbe

ARTHUR GIBSON BIXBY FRANCIS MINOT BLAKE GEORGE WILLIAM BRYDEN WILLIAM LOUIS CREDEN HENRY BODGE PENNELL

GEORGE BATCHELLER PERKINS FREDERICK POND SIMONDS FRANCIS FAY HILL SMITH WALTER SOHIER CLIFFORD MOLINEAUX TYLER

RALPH BENJAMIN YERXA

21 Marlborough Street



Drown Peter



Theta Chi

Founded at Norwich University, 1856

Chapter Roll

Alpha Beta Norwich University

Massachusetts Institute of Technology

Theta Chi

BETA CHAPTER

Established 1902

CHARLES MORTON HUTCHINS
EDWARD RUDDOCK HYDE
CHARLES EDWARD JOHNSON
BURTON WARREN KENDALL
PATRICK JAMES KENNEDY, JR.

JAMES WILLIAM KIDDER
CLARENCE EMMET LASHER
HENRY DELANO LORING
ROLAND EVERETT PAGE
RALPH OMER REED

PAUL BARON WEBBER

Phi Rappa Sigma

Chapter Roll

Alpha Chapter	University of Pennsylvania	
	College of New Jersey .	6
	Lafayette College	
	Washington and Jefferson Col	llege
	Dickinson College	
	Franklin and Marshall Colleg	e
Eta Chapter	University of Virginia .	*1
Theta Chapter	Centenary College of Louisian	na
Iota Chapter	Columbia College	
Kappa Chapter	Lake Forest University .	0
Lambda Chapter	University of North Carolina	
Mu Chapter	Tulane University .	
Nu Chapter	Cumberland University .	
Xi Chapter	University of Mississippi	
Omicron Chapter	Centre College	
Pi Chapter	Harvard University	
Rho Chapter	University of Illinois .	
Sigma Chapter	Lehigh University	(6)
Tau Chapter	Randolph Macon College	
Upsilon Chapter	Northwestern University .	0
Phi Chapter	Richmond College	
Chi Chapter	Racine College	
Psi Chapter	Pennsylvania State College	
Omega Chapter	Haverford College	
Alpha Alpha Chapter	Washington and Lee Univers	ity
Alpha Beta Chapter	University of Toronto .	1
Alpha Gamma Chapter	West Virginia University	
Alpha Delta Chapter	University of Maine .	
Alpha Epsilon Chapter	Armour Institute of Technological	ogy
Alpha Zeta Chapter	University of Maryland .	1
Alpha Eta Chapter	College of Charleston .	11.4
Alpha Theta Chapter	University of Wisconsin .	1
Alpha Iota Chapter	Vanderbilt University .	1
Alpha Kappa Chapter	University of Alabama .	
Alpha Lambda Chapter	University of California .	
Alpha Mu Chapter	Mass. Institute of Technolog	
Alpha Nu Chapter	Georgia Institute of Technol	ogy

Philadelphia, Pa. Princeton, N. J. Easton, Pa. Washington, Pa. Carlisle, Pa. Lancaster, Pa. Albemarle Co., Va. Jackson, La. New York City Lake Forest, Ill. Chapel Hill, N. C. New Orleans, La. Cumberland, Tenn. Oxford, Miss. Danville, Ky. Cambridge, Mass. Urbana, Ill. South Bethlehem, Pa. Ashland, Va. Evanston, Ill. Richmond, Va. Racine, Wis. State College, Va. Haverford, Pa. Lexington, Va. Toronto, Can. Morgantown, W. Va. Orono, Me. Chicago, Ill. Baltimore, Md. Charleston, S. C. Madison, Wis. Nashville, Tenn. Tuscaloosa, Ala. Berkeley, Cal. Boston, Mass.

Atlanta, Ga.

Phi Rappa Sigma

ALPHA MU CHAPTER

Frater in Sacustate
William H. Walker

Gratres

FLETCHER HAMILTON BURKE CHARLES FRANCIS UNDERHILL
THOMAS BRECKINRIDGE CABELL ARTHUR CUTTS WILLARD
EDWIN THOMAS WOOD

Gratres in Urbe

J. E. BEARD

W. E. BENSCOTER

G. G. CROCKER

Alpha Delta Phi

A. 36.36

ALUMNI ASSOCIATION

Alpha Delta Phi

Alumni Association at Technology

	(4	Bowdoin College
•0		Yale University
*		University of Rochester
		Williams College
*		University of Wisconsin
		Kenyon College
		Western Reserve University
		University of Rochester
	-	Dartmouth College
		Johns Hopkins University
	* * * * * * * * * * * * * * * * * * * *	



OTHUER FRATIERNITHES REPRESENTED

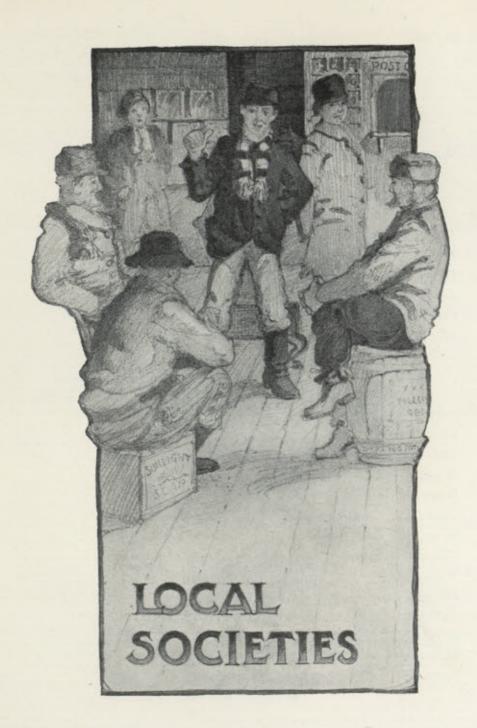
Alpha Chi Rho	Edward H. Lorenz,	Trinity College
	Robert Calvin Bisbee,	Bowdoin College
Beta Theta Pi	William Dexter Clarke,	Amherst College
	Frank Logan .	Indiana University
	Stuart L. Walcott,	Wabash College
	Albert W. Wells .	Dartmouth College
Delta Kappa Epsilon	Grant Ford	Amherst College
Theta Delta Chi	Edward F. Moody,	Bowdoin College
Kappa Alpha	William W. Ammen,	Johns Hopkins University
	John A. Spilman .	Virginia Military Institute
Kappa Sigma	Allen Ashley	University of Louisiana
	H. B. Thornson .	
Sigma Xi	William G. Houskeeper,	University of Pennsylvania
Sigma Chi	Clarence B. Powell,	Kansas University
Sigma Nu	T. P. Bedford .	Central College
Phi Beta Kappa	William P. Bentley,	Trinity College
	Grant Ford	Amherst College
	Edward H. Lorenz,	Trinity College
Phi Delta Theta	Elmer W. Wiggins,	Amherst College
Phi Kappa Psi	Byron H. Clingerman,	Wittenberg College
Phi Nu Theta	Arthur S. Douglass,	Wesleyan University
Chi Psi	Maurice B. Landers,	Hamilton College
	Clark D. Simonds .	Middleburg College
	Eugene W. Mason, Jr.,	Brown University



								7	No. of ?	Members
Sigma Chi .										23
Theta Chi .										12
Delta Psi .										19
Chi Phi								. 1	- 6	25
Delta Kappa Epsilo	n	-		1		13			- 3	28
Phi Beta Epsilon					-			100		20
Delta Upsilon .							140			19
Sigma Alpha Epsilo	n									26
Phi Gamma Delta									-	28
Delta Tau Delta		***								18
Phi Sigma Kappa			*			*			*	13
Theta Chi .		100			-	*		183	*	11
Phi Kappa Sigma				1				350	*	5
Other Fraternities r	opro	ented			15			100	*	18
Other Praternities I	epres	senteu	*	-		*	1	1.74	*	10
Total .		300			100	2.0		-	-	265

PERCENTAGE OF FRATERNITY MEN AT TECHNOLOGY

Year	No. of Men								Per Cent	
1885-86					52		141			8.5
1886-87					42					8.9
1887-88					42		200			6.1
1888-89	545				45					5.4
1889-90					93					10.8
1890-91					158	-				16.0
1891-92					184					17.1
1892-93					207		10			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
1899-00					216					18.4
1900-01		0.000			213					17.9
1901-02					245					17.1
1902-03					274				- 1	16.9
1903-04					265				- 00	17.3
									2.5	The second second



R2 \$

Established 1883

Members

WARREN ULYSSES CHASE BATON
STUART WELLS BENSON
WALTER GREGORY BENT
MOSES BROWN, JR.
HENRY POPE CARRUTH
EDWARD MAY COFFIN
FRANK EUGENE DIXON
ROBERT FAULKNER
OTIS DWIGHT FELLOWS, JR.
WALTER ELBRIDGE HADLEY

CHARLES ROGERSON HAYNES
REGINALD HAZELTINE
CHARLES WISWELL JOHNSTON
WILLIAM HERBERT KEEN
CLARENCE RONALD LAMONT
MARQUIS EDGAR MASON
JAMES HIGBIE POLHEMUS
GUY CROSBY RIDDELL
JOHN WHITMAN SHAW
ROBERT LIBBEY YOUNG

Honorary Members

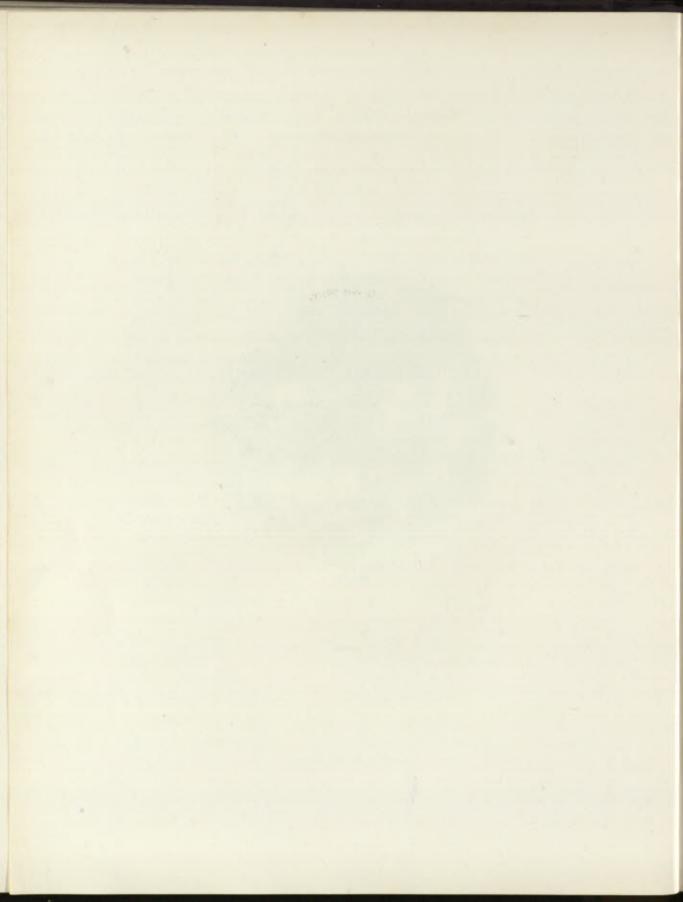
JOHN ALDEN
FRED L. BARDWELL
SAMUEL CABOT
HENRY CARMICHAEL
JAMES M. CRAFTS
CHARLES R. CROSS
WILLIAM S. DAVENPORT
THOMAS M. DROWN
THOMAS EVANS
HENRY FAY
AUGUSTUS H. GILL
HEINRICH O. HOFMAN
G. RUSSEL LINCOLN
ARTHUR D. LITTLE

RICHARD W. LODGE
F. JEWETT MOORE
SAMUEL P. MULLIKEN
JAMES F. NORRIS
ARTHUR A. NOYES
THOMAS E. POPE
HENRY S. PRITCHETT
ROBERT H. RICHARDS
GEORGE W. ROLFE
WILLIAM T. SEDGEWICK
JOHN W. SMITH
HENRY P. TALBOT
FRANK H. THORP
WILLIAM H. WALKER

WILLIS R. WHITNEY



Declin Fibrile.





Officers

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E. T. STEEL, 2D.

JOHN H. HOLLIDAY, JR. W. D. B. MOTTER, JR. T. MORRIS POTTS

MEMBERS 1905

RENSHAW BORIE M. BRYANT BOWMAN H. W. DONALD MANGAMAN JOHN H. HOLLIDAY, JR. ROBERT H. W. LORD W. D. B. MOTTER, JR. T. MORRIS POTTS

LOUIS E. ROBBE H. F. SCHAEFER SAMUEL SEAVER ROBERT W. SEYMS E. T. STEEL, 2D. SIDNEY T. STRICKLAND WALDSO TURNER

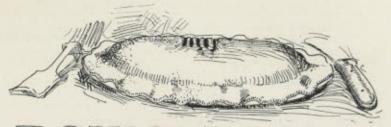
RENSHAW BORIE

1906

MIGUEL AHUMADA, JR. EDGAR CLARK BALLOU R. BINGHAM ARTHUR W. BLAKE LAURANCE M. BUCK H. K. DISQUE

R. H. DOEPKE NUGENT FALLON ALLAN SEYMOUR DONALD A. STEWART HAROLD STREET WILKINS JULIAN M. WRIGHT

M. E. VINTON, JR.



ROUND TABLE

King Arthur . . . MELVILLE BRYANT BOWMAN Queen Guinever, WILLIAM DUFFIELD BELL MOTTER, JR. Merlin WALDSO TURNER

KNIGHTS

Sir Galahad HARRY WALKER DONALD
Sir Launcelot . . . JOHN HAMPDEN HOLLIDAY, JR.
Sir Gawain . . . HOWARD MAURICE EDMUNDS



FERDANDO MORENO BLOUNT
MELVILLE BRYANT BOWMAN
JAMES S. BROWN
HARRY WALKER DONALD
HOWARD MAURICE EDMUNDS
EDWIN BRUCE HILL
JOHN HAMPDEN HOLLIDAY, JR.
ROBERT HOWARD WM. LORD

THEODORE PARKER MOOREHEAD
WM. DUFFIELD BELL MOTTER, JR.
SAMUEL SEAVER
ROBERT WYNDHAM SEYMS
EDWIN L. SMITH
SIDNEY TALBOT STRICKLAND
LE BARON TURNER
WALDSO TURNER

The Pawned Ring

363636

A young man who knew his love for Science,
Nature's foster daughter.
Straightway, he sought his Love,
Journeying eastward.
The roar of wheels, the onrush challenge of bells,
And the low-keyed retreat of the bells passed by,
Were the music that told him of his Love,
And of her ways with men.
For a time he sought and wooed,
And in the ending
Men shouted, for they said he won;
But he knew he lost.

His eyes once could see his Love's splendor openly, but now
His vision was darkened by a veil of close-printed pages.
It was with bitterness
That he found he prized the luster
Of the thirty pieces of silver above the radiance
Of the Pawned Bride's Ring.

the tech Show

Je 36.36

N view of the fact that the Tech Show has in five years grown to be one of the big events not only of Junior Week, but of the entire year, and since no record, aside from the programs, has ever been kept of the Show, a short history of its beginning and subsequent growth may be of interest at this time.

Mr. Allan W. Rowe, 'OI, one of the originators of the Tech Show, in response to an invitation of the Technique Board to tell

of the Show, says:-

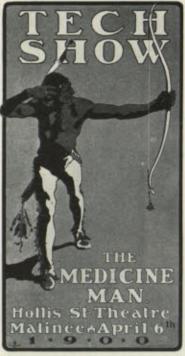
"The Tech Show was not, as is sometimes now taken for granted, the unlooked-for outcome of an accidental condition. It was

the realization of a long-cherished dream, made possible by an opportunity. I have asked the friend whose dream it was, before yet it had the smallest beginning in fact, to tell Tech of the origin of our 'Show.' The following is the answer received to my request:—

"'For many years there had been a growing realization and regret in the minds of the friends of Tech as an all-round place of education, that the school had no social center, little social inter-relation among its students, and next to no social standing in the eyes of the community in which it was situated. The scientific and educational standing of Tech were beyond question from the first; but the students of



Technique 1905



Tech were unquestioningly classed as "grinds" by youthful Boston at large, -as men neither fitted for nor desirous of social opportunities. It is true that the fraternities, the musical clubs, the teams, gave occasion for a few of the men to meet otherwise than on a scholastic basis, but these occasions were few and limited. Socially "Tech" was inchoate; and this fact could not be without serious effect on youth the most plastic of whose years were passed at Tech, and whose social ideals and social manners were largely formed by the opportunities of those years. By social opportunities is not meant occasional chances to enjoy a dance or to eat a dinner. There is meant the natural mingling of the youth who are transient visit-

ors to a city with the everyday sports and pleasures of young life of the residents of that city; a mingling that is possible only when the visitor has some power of returning the pleasures offered him by other pleasures distinctively in his gift. Tech has no dormitories. The merry, chaperoned afternoon teas or informal musicales of other colleges were impossible to the men lodged in True, the musical clubs and the fraternities boarding houses. offered limited facilities for this sort of entertaining; but how about the immense majority of men who lack musical talent, - or, what is as much to the purpose, the occasion to make its possession known, - and the men whose pecuniary limitations make fraternity life a forbidden luxury? Nor was this all. No college which lacks at least a temporary social centralization ever fully develops that esprit de corps which means, among other things, material prosperity, since the gifts of the materially successful among its old grads come largely from the sentiment born

1905

and fostered by the social associations of the undergraduate Technique career.

"'For all these reasons social centralization at the Institute seemed, to one friend of the Institute at least, a thing worth striving for. A proposed "Minstrel Show" in 1899, concerning whose details this friend chanced to be consulted, furnished the opportunity for at least experiment with social centralization. The experiment was tried. The result was the first Tech Show.'

"Such is the account given by the friend of Tech of the Show's inception. From my own knowledge I may add a few details. The opportunity for the first great Show was a minstrel show proposed by a few students in 1899. The opportunity-it is not too much to say, perhaps, the howling need-of this minstrel show, was the acute crisis in the chronic impecuniosity of the Athletic Association. Like Mr. Richard Swiveller, the officers of the Association were obliged to go out of town in order to cross the street, such was the importunity of the creditors from whom the Association had bought its medals in the past, and of the

athletic young gentlemen to whom medals were long overdue in the present. It was purposed to give a minstrel show in Huntington Hall for the modest admission fee of twentyfive cents. A suggestion to charge fifty cents was voted down, as involving liability to a suit for obtaining money under false pretences. The friend above quoted was consulted as to the details of this scheme. The final outcome of that consultation was the giving of the first Tech Show in the Hollis Street Theatre on the afternoon of the 12th of May, 1899. The tottering reason of the student management of the first Show at finding itself in the Hollis Street Theatre, with some thousand dollars' worth of liabil-



Technique 1905



ities waiting for immediate settlement, was only saved by the knowledge that a blank check was in the hands of the manager in chief, responsibly signed, waiting the event of failure of the Show to meet expenses-so great faith did the friend of Tech have in the resources of Tech, competently handled. What the feelings of the management were on waking next day to find Tech ranked, in the phrase of an influential newspaper, 'in the front of the front rank of college entertainers,' and to find in its trembling hands receipts for about a thousand dollars and a check for several clean hundreds over and above all bills, may

be left to the imagination. Tech also came awake on that day to several other matters of importance; namely, that it had in its undergraduate ranks, singers, dancers, actors, who compared favorably with any talent that any of the show-giving colleges had to boast; also, that among one's classmates and fellow-students in general there were a hundred or so gifted and likable men who, up to the first rehearsal of the Show, had been to their fellows merely names in a catalogue, but henceforth would rank as friends and fellow-workers and record-breakers. Discoveries, these, worth to Tech at large far more than the hundreds of dollars to the agonized Athletic Association. It may be added that these discoveries are made anew year by year, and that their value does not diminish; also that they will be made so long as there obtains, in the conduct of the Show, the policy inaugurated by its founder,absolute democracy in its handling the best part to the best man, impartial outside expert judgment deciding who is the best man.

"The first Tech Show took the form of a minstrel performance,
—plus; the 'plus' being the very unusual value of the musical

selections written for the Show by distinguished Boston composers, Technique and then given their first public hearing.

"No one, I am sure, more vividly remembers or more gratefully acknowledges than do the members of the Tech Show undergraduate committee of 1899, under what close and accurate direction of the founder of the Show, its coaches and its pecuniary advisers, the committee brought the occasion to such a memorable success.

"The Shows of 1900 and 1901 were, respectively, 'THE MEDICINE MAN,' a comic opera whose characters were with one exception, 'Indians with the bark on,' and 'THE GRAND DUKE,' by Gilbert and Sullivan, on this occasion given its first presentation in America.

"It remains to be added that the coaches of the Show have been, from the date of the 'Medicine Man' to the present,-Mrs. Janet Edmondson-Walker, Stage Director; Mr. John Mullaly, Musical Director; Mr. John Coleman, Master of the Ballet."

Mr. Rowe does not give the name of the "friend of Tech," but we feel that it is only right that every Tech man should know who was the real founder of the Show, the one to whom our respect and appreciation is due,-Mrs. Evelyn Greenleaf Sutherland.

The show for 1902 was "APPLIED MECHANICS," by Mrs. Janet Edmonson-Walker. It was distinctly different from its predecessors in that it was written for the occasion, and contained many ideas and songs of Tech men. The 1903 Show was even more local and approached more nearly the ideal "Tech Show."

It was a "A Scientific King," by Gerald Francis Loughlin, '03, and was unanimously considered the most successful performance held up to that time. This year's show, however, by John A. Fremmer, '04, is the best typical show yet presented, as it is practically all the work of Tech students.



1905

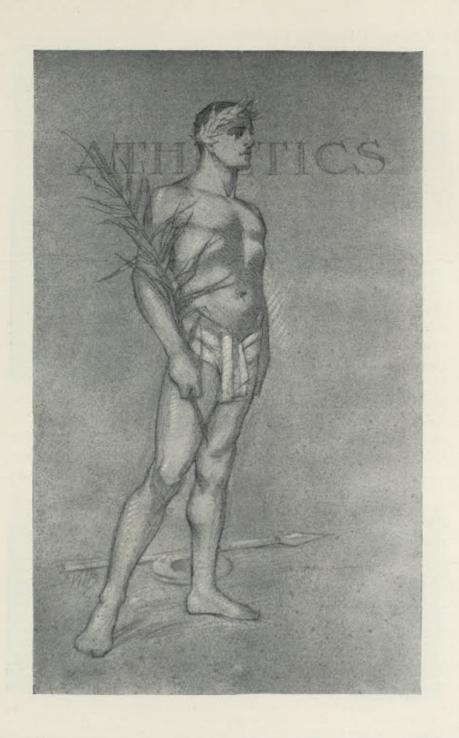
Technique 1905



The Tech Show has grown not only from a Minstrel Show to an original comic opera, but the business management has improved to such an extent that in the same theatre and with the same two performances the profits of the Show have increased from "several clean hundreds" to more than a thousand dollars.

Such has been the development of the Tech Show. As Mr. Rowe says, "Its history has been one of continual and waxing success, and such will be its history so long as the original policy holds sway over its fortunes,—'The best place to the bestman.'"





Athletics

36.36

ECHNOLOGY has succeeded in Athletics during the past year. Though its teams have not all won championships, they have been victorious in many contests and have failed in none. The Track Team has done far better than in recent years, and the Cross-country, Basket Ball, and Fencing Teams have made good records. Despite the fact that the 1903 Field Day fell short of former standards, and that the Freshman-Sophomore Baseball Games last spring were poor, there has been a great improvement



G, H. BUCKINGHAM

both in the teams and in the interest taken in them. This improvement has been due chiefly to the management of the Athletic Advisory Council. Its policy has often been criticised, but results



J. B. RILEY



E. F. JENKINS



R. S. FRANKLIN

Cechnique



E. L. OVINGTON

have already vindicated both its conservatism and economy. By any other course the Track Team could have had neither coach, training table, nor athletic field; and without these our victory at Hanover and our success at Worcester last spring would have been impossible. Also the victory of the Crosscounty Team over Amherst



J. F. MAHAN

last fall may be partly attributed to the same cause. Furthermore, during the past year, the "Advisory Council" has approved the M. I. T. A. A.'s taking charge of the "All-round Athletic Contest"; and has promoted the purchase by the classes of a new class-championship cup. Another impetus to the general interest in athletics has been the issuing of certificates by the Advisory Council to those men entitled to wear Technology emblems.

The Athletic Advisory Council has devoted the main part of its resources to track athletics, and it is of our record in this branch of athletics that we have most cause to be proud. Though the class games last spring showed that we had good material out of



which to make a team, our victory in the Dual Meet at Hanover was a surprise both to Dartmouth and to many Tech men. It was the victory of an evenly developed, carefully trained team, containing few stars, and made up mainly of great men—one for which both the men and coach Mahan deserve great credit.



L. B. TURNER

R. D. EMERSON

Technique



START - CROSS-COUNTRY RACE WITH AMHERST

The same is true of the team's record in the N. E. I. A. A. Meet at Worcester, in which it gave Williams a hard race for second place. The winning of the Cross-country Race with Amherst was another proof that there are men at

Technology who can and will run, if they are given only a chance to train, and are backed by a little enthusiasm from the rest of us. The loss of the Relay Race with Georgetown at the B. A. A. Games this winter was a disappointment, but it must be realized that the Technology team ran a good race, and that its defeat was to some extent due to lack of experience in indoor running. The work of the Fencing Team has been good. Indeed, considering the number of naval cadets at Tech, there is no reason why it should not be. The Basket Ball Team has had a splendid record. It has proved that basket ball can be played at Technology, and that it deserves the recognition and support of the Advisory Council.

The 1903 Field Day lacked enthusiasm. The Freshman

Class apparently did not realize that its contests with the Sophomores constituted one of the most important events in Technology athletics, and it shirked. Nevertheless, the Field Day was not a failure, except for 1907. The Freshman-Sophomore Baseball Games last spring were poorly played, and aroused but little general interest. They showed that even class enthusiasm will not



R. D. EMERSON

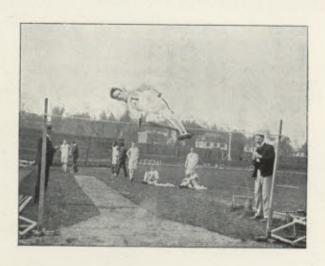


SPRING MEET-RILEY WINNING THE 2 MILE

stomach class baseball in an open lot Technique played to the hoots of the losing side. Let either the two classes obtain proper fields and proper coaches, or let Freshman-Sophomore baseball be dropped.

For the coming year the outlook is encouraging. In track athletics we have lost several valuable men, but the fall and winter meets have given promise of a larger squad in the spring from which to draw recruits. Therefore, though we may not be able to fill the places of those who have left, we should be able to balance their loss by devel-

oping good men in other events. That the other teams will continue their good work, and that the next Field Day will be a success, there is every reason to expect.



R. D. FARRINGTON, HANOVER, 1903



THE Athletic Advisory Council regulates all M. I. T. athletics, and has supervision over the management of all M. I. T. teams.

OFFICERS

Chairman

FRANK H. BRIGGS, '81

Secretary and Treasurer HARRY L. MORSE, '99

Refresentatives from M. I. T. Alumni Association

THOMAS HIBBARD, '75

FRANK H. BRIGGS, '81

JOHN L. BATCHELDER, JR., '90

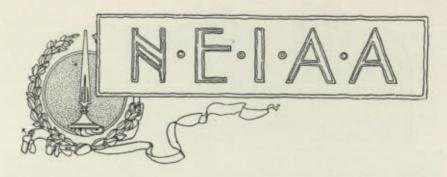
Representative from Institute Committee
WILLIAM HOSMER EAGER, '04

Representative from Athletic Association WILLIAM M. VAN AMRINGE, '06



DANIEL ADAMS JOHN WINTHROP AGER HOWARD COLBURN BLAKE WILLIAM BRENTON BOGGS CHARLES RANDALL BURLEIGH GEORGE HOBART CHAPMAN MAXWELL ALANSON COE GEORGE ALDEN CURTIS BARRY CANFIELD EASTHAM GUY WARNER EASTMAN RALPH DAMMARELL EMERSON ROBERT DOUGLAS FARRINGTON RALPH STOWELL FRANKLIN DUNCAN GATEWOOD CHARLES ROGERSON HAYNES ERNEST FOSTER JENKINS JOSEPH RUSSELL JONES, JR. JORGE LAGE

CURRIER LANG ARTHUR HOOPER LANGLEY BEN EDWIN LINDSLY EDWARD HENRY LORENZ KENNETH OLWELL MAJOR GROSVENOR DE WITT MARCY WILLIAM E. H. MATHESON LEON GILBERT MORRILL ROBERT PORTER NICHOLS EARLE LEWIS OVINGTON FRANCIS BRADFORD RILEY LEWIS ADAMS RILEY, 2D. ARTHUR OSBORNE ROBERTS KATSUZO TSURUTA LE BARON TURNER ELMER WESLEY WIGGINS HERRERT LAWRENCE WILLIAMS EDWARD LOWELL WILSON



THE New England Intercollegiate Athletic Association was arranged in 1886 with Amherst, Bowdoin, Brown, Dartmouth, Trinity, Tufts and Williams as charter members. The Association is governed by an executive council consisting of a president, vice president, secretary, treasurer and an executive committee of three. This council meets in Boston once a year to transact the business of the Association, to arrange for the Annual Field Day, and to elect officers for the coming year. Technology became a member of the Association in 1894.

OFFICERS-1904

President

W. I. HAMILTON, Amherst

Vice President

Secretary

R. E. HALL, Bowdoin

H. J. MANN, M. I. T.

Treasurer

C. J. GOODWILLIE, Williams

Executive Committee

C. H. HULL, Brown

T. E. JEWETT, M. I. T.

T. R. BARRETT, Vermont

Members of the Association

Dartmouth College Brown University Williams College Massachusetts Institute of Technology

University of Maine Wesleyan University Trinity College

Amherst College Bowdoin College Tufts College

Worcester Polytechnic Institute University of Vermont

Winners of the Championship

Amherst, 1888, 1890, 1891, 1892, 1902, 1903; Bowdoin, 1899; Dartmouth, 1887, 1889, 1893, 1895, 1896, 1897; M. I. T., 1894. Tie between Amherst and Brown, 1898; Williams, 1900, 1901.



THE M. I. T. Athletic Association has charge of track athletics at the Institute, subject to the approval of the Athletic Advisory Council. During the past year the Association has held three annual closed meets,—the Spring Meet in May, the Fall Handicap Meet in November, and the Indoor Meet in January. It has also taken charge of the All-Round Athletic Contest, inaugurated last year by Dr. Skarstrom.

OFFICERS

President
GEORGE ALDEN CURTIS, '04

Vice President
ROBERT PORTER NICHOLS, '05

Secretary

WILLIAM WALTER CRONIN, '04

Treasurer
LE BARON TURNER, '05

Representative to Advisory Council RALPH DAMMARELL EMERSON, '05

Manager of Track Team
HERBERT JAMES MANN, '06



Track Team





Buckingham Tsuruta Gibbons Knapp Mahan, Haynes Mackie J. W. Williams Coach

LINDSLY EMERSON FRANKLIN OVINGTON CURTIS TURNER LANG H. L. WILLIAMS EASTHAM
RILEY COE NICHOLS JENKINS



OFFICERS

Captain GEORGE ALDEN CURTIS, '04

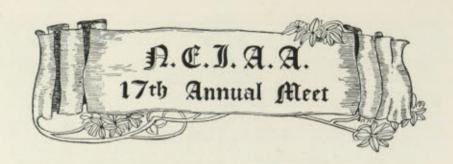
Manager HERBERT JAMES MANN, '06

Coach JOHN F. MAHAN

TEAM

GEORGE H. BUCKINGHAM, '05 GEORGE AUSTIN CASEY, '05 MAXWELL ALANSON COE, '06 GEORGE ALDEN CURTIS, '04 HENRY LAWRENCE DEAN, '05 BARRY CANFIELD EASTHAM, '05 RALPH DAMMARELL EMERSON, '05 ROBERT DOUGLAS FARRINGTON, '05 KATSUZO TSURUTA, '05 RALPH STOWELL FRANKLIN, '04 MICHAEL JOSEPH GIBBONS, JR., '06 CHARLES ROGERSON HAYNES, '04 ERNEST F. JENKINS, '04

WILLIAM JARED KNAPP, '06 CURRIER LANG, '04 BEN EDWIN LINDSLY, '05 MITCHELL MACKIE, '05 LEON GILBERT MORRILL, '05 EARLE LEWIS OVINGTON, '04 FRANCIS BRADFORD RILEY, '05 LE BARON TURNER, '05 HERBERT LAWRENCE WILLIAMS, '06 JAMES RICE WILLIAMS, '06 EDWARD LOWELL WILSON, '06



Held at Worcester, May 23, 1903

Event	Winners	Time, Height, or Distance
100 -Yard Dash .	F. L. THOMPSON, G. L. SWASEY, R. S. FRANKLIN, C. F. JENKS,	Amherst 10 1-5 sec. Dartmouth M. I. T. Bowdoin
220 - Yard Dash .	F. L. THOMPSON, G. L. SWASEY, R. S. FRANKLIN, H. L. WILLIAMS,	Amherst 22 3-5 sec. Dartmouth M. I. T. M. I. T.
120-Yard High Hurdles		Williams 16 sec. M. I. T. M. I. T. Williams
220-Yard Low Hurdles		Amherst 26 1-5 sec. Bowdoin M. I. T. Dartmouth
440-Yard Run	H. E. TAYLOR, R. E. MARTIN, E. H. LEANING, C. R. BLYTH,	Amherst 51 4-5 sec. Wesleyan Williams Amherst

880-Yard Run	H. E. TAYLOR, W. A. NEWELL, R. F. PATTERSON, R. E. LEWERS,	Amherst . 2 min. 7 sec. Technique Williams Vermont Dartmouth
One-Mile Run	E. F. JENKINS, C. A. CAMPBELL, B. MEARS, SAUNDERS,	M. I. T. 4 min. 41 2-5 sec. Dartmouth Williams Williams
Two-Mile Run .	F. B. RILEY, H. W. DYE, E. BENSON, C. F. CORNER,	M. I. T., 10 min. 40 4-5 sec. Williams Wesleyan Wesleyan
Running Broad Jump	W. P. HUBBARD, A. T. FOSTER, H. G. VAN WEELDEN, L. G. BLACKMER,	Amherst . **22 ft. 7 in. Amherst . 22 ft. 1-2 in. Trinity . 21 ft. 3 in. Williams 21 ft.
Running High Jump	L. G. BLACKMER, H. E. TAYLOR, R. N. ERNST, J. E. GRIFFIN,	Williams } 5 ft. 8 3-4 in. Williams . 5 ft. 7 1-2 in. Dartmouth . 5 ft. 6 1-2 in.
Putting 16-Pound Shot	R. E. ROLLINS, A. C. DENNING, J. W. PARK, V. M. PLACE,	Amherst 42 ft. 3 in. Bowdoin . 41 ft. 1 1-4 in. Amherst 40 ft. 3 in. Dartmouth
Throwing 16-Pound Hammer	A. C. Denning, J. W. Park, B. E. Lindsly, E. A. Dunlap,	Bowdoin . 129 ft. 6 in. Amherst . 120 ft. 8 in. M. I. T 117 ft. Bowdoin . 114 ft. 4 in.
Discus Throw	F. E. EHMKE, J. W. PARK, V. M. PLACE, L. G. MORRILL,	Brown . 115 ft. 3 in. Amherst . 109 ft. 4 in. Dartmouth . 108 ft. 7 in. M. I. T 107 ft. 9 in.
Pole Vault	W. H. PEABODY, G. A. CURTIS, F. P. FLETCHER, W. SQUIRES,	Williams 11 ft. 1-2 in. M. I. T. Wesleyan Williams * 10 ft. 9 1-2 in.

^{**} N. E. I. A. A. record — not allowed on account of wind.

* M. I. T. Record.

SUMMARY OF POINTS BY COLLEGES

Amherst 51	Williams 31	M. I. T. 30
Dartmouth 15	Bowdoin 13	Wesleyan 13
Brown 7	Trinity 3	University of Vermont 2

SUMMARY OF POINTS BY EVENTS

	Amh,	Will.	M.I.T	Dar.	Bow.	Wes.	Br.	Trin.	U.V.
100-Yard Dash .	5	0	2	3	1	0	0	0	0
220-Yard Dash .	5	0	2	1	3	0	0	0	0
120-Yard Hurdles	0	6	5	0	0	0	0	0	0
220-Yard Hurdles	5	0	2	1	3	0	0	0	0
440-Yard Run .	6	2	0	0	0	3	0	0	0
880-Yard Run .	5	3	0	1	0	0	0	0	2
One-Mile Run .	0	3	5	3	0	0	0	0	0
Two-Mile Run .	0	3	5	0	0	3	0	0	0
Running Broad Jump	8	1	0	0	0	0	0	2	0
Running High Jump	4	6	0	1	0	0	0	0	0
Putting 16-lb. Shot	7	0	0	1	3	0	0	0	0
Throwing 16-lb. Ham	r3	0	2	0	6	0	0	0	0
Discus Throw .	3	0	1	2	0	0	5	0	0
Pole Vault	0	7	2	0	0	2	0	0	0
Two-Mile Bicycle Ra	ce 0	0	3	0	0	5	2	1	0
Totals	51	31	30	15	13	13	7	3	2



Held at Hanover, May 9, 1903

Dartmouth, 71 Points

M. I. T., 91 Points

Event		Winners	Time, Height or Distance
100-Yard Dash .	G. L. SWASEY, R. S. FRANKLIN, C. LANG, S. P. WARNER,	Dartmouth M. I. T. M. I. T. Dartmouth	10 2-5 sec.
220-Yard Dash .	R. S. Franklin, H. L. Williams, S. P. Warner, D. L. Jackson,	M. I. T. M. I. T. Dartmouth Dartmouth	23 1-5 sec.
120-Yard High Hurdles	E. L. OVINGTON, R. D. EMERSON, C. R. HAYNES, R. W. NEAL,	M. I. T. M. I. T. M. I. T. Dartmouth	*16 2-5 sec.
220-Yard Low Hurdles	J. H. BUELLE, E. L. OVINGTON, C. R. HAYNES, W. P. EMERY,	Dartmouth M. I. T. M. I. T. Dartmouth	26 1-5 sec.
440-Yard Run	G. L. SWASEY, LE B. TURNER, M. A. COE, S. P. WARNER,	Dartmouth M. I. T. M. I. T. Dartmouth	**50 3-5 sec.

^{*}M. I. T. Record ** Dartmouth Record

*			
technique 1905	880-Yard Run	H. D. THRALL, E. L. WILSON, R. P. NICHOLS, R. E. LEWERS,	Dartmouth 2 min. 3 2-5 sec. M. I. T. M. I. T. Dartmouth
	One-Mile Run	C. A. CAMPBELL, E. F. JENKINS, G. H. BUCKINGHAM, H. JOHNSON,	Dartmouth 4 min. 46 1-5 sec. M. I. T. M. I. T. Dartmouth
	Two-Mile Run	C. A. CAMPBELL, F. B. RILEY, E. F. JENKINS, G. A. CASEY,	Dartmouth **10 m. 21 1-5 s. M. I. T. M. I. T. M. I. T.
	Running Broad Jump	C. Lang, R. S. Franklin, M. W. Bullock, H. M. Hobart,	M. I. T 21 ft. 2 in. M. I. T. Dartmouth Dartmouth
	Running High Jump	G. A. Curtis, R. D. Farrington, M. W. Bullock, J. E. Griffin,	M. I. T. } M. I. T. } Dartmouth } Dartmouth }
	Putting 16-Pound Shot	V. M. Place, L. G. Morrill, D. C. Colesworthy, B. Jeffreys,	Dartmouth **39 ft. 5 1-4 in. M. I. T. Dartmouth Dartmouth
	Throwing 16-Pound Hammer	B. E. LINDSLY, V. M. PLACE, W. J. KNAPP, J. W. GAGE,	M. I. T * 118 ft. Dartmouth M. I. T. Dartmouth
	Throwing the Discus	L. G. Morrill, V. M. Place, B. Jeffreys, C. Lang,	M. I. T 105 ft. 7 in. Dartmouth Dartmouth M. I. T.
	Pole Vault	G. A. Curtis, F. B. Hazen, R. D. Farrington, M. Mackie,	M. I. T *10 ft. 6 1-2 in. Dartmouth M. I. T

^{**} Dartmouth record.

* M. I. T. Record.

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Two-Mile Bicycle	B. C. EASTHAM,	M. I. T	6 min. 17 sec.	Cechnique
Race	W. H. WATSON,	Dartmouth		
	P. G. FAVOR,	Dartmouth		1905
	F RRENNAN	Dartmouth		

SUMMARY OF POINTS

		Darti	nouth, 1	M.I.T.	Darte	nouth.	M.I.T.
100-Yard Dash			6	5	Running Broad Jump .	3	8
220-Yard Dash			3	8	Running High Jump .	3	8
120-Yard High	Hur	dles	1	10	Putting 16-pound Shot	8	3
220-Yard Low	Hur	dles	6	5	Throwing 16-pound Hamm	er4	7
440-Yard Run			6	5	Value of the second of the sec	5	6
880-Yard Run			6	5	Pole Vault	3	8
One-Mile Run			6	5	Two-Mile Bicycle Race	6	5
Two-Mile Run			5	6		_	_
Tota	ls,					71	94

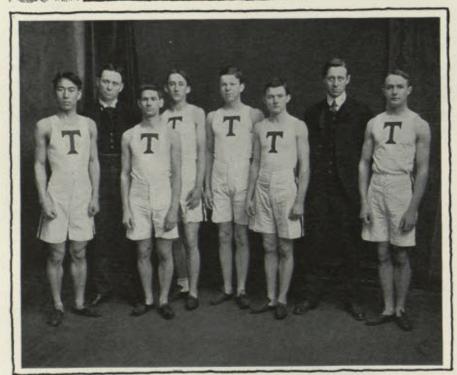


A COACH LOAD AT HANOVER

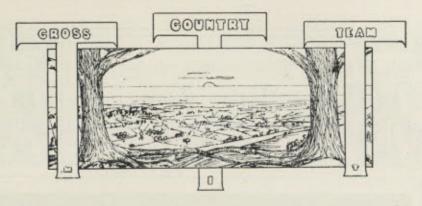


Cross Country Team





TSURUTA MAHAN, LORENZ ADAMS MAJOR MARCY MEYERS CHAPMAN Goach Manager



Officers of Cross-Country Association, 1903-1904

President
A. J. SWEET, '04

Captain E. H. LORENZ, '04

Secretary
C. R. HAYNES, '04

Manager L. F. Myers, '04

Chase, Captain
A. M. HOLCOMBE, '04

CROSS-COUNTRY RACE WITH AMHERST

Franklin Park

November 14, 1903

Course, 4 3-4 miles; Time, 27 min. 42 sec.

Amherst, 32 points

Technology, 23 points

TEAMS IN ORDER OF FINISHING

- 1. E. H. LORENZ, M. I. T.
- 6. G. D'W. MARCY, M. I. T.
- 2. D. Adams, M. I. T.
- 7. F. E. A. LEWIS, Amherst
- 3. C. W. BEAN, Amherst
- 8. F. G. THAYER, Amherst
- 4. G. H. CHAPMAN, M. I. T.
- 9. H. E. TAYLOR, Amherst 10. K. O. Major, M. I. T.
- 5. R. FREEMAN, Amherst 10. K. O. MAJ K. TSURUTA, Substitute, M. I. T.

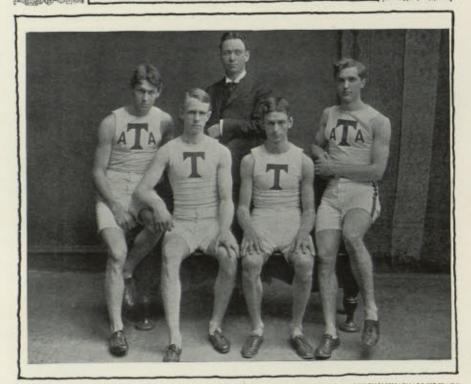
Coach

JOHN F. MAHAN

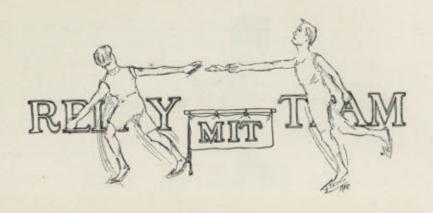


Relay Team





MAHAN
Coach
GOULD WILLIAMS WILSON HOWE



RELAY RACE WITH GEORGETOWN UNIVERSITY

Run at the Boston Athletic Association Games, Feb. 13, 1904

Won by Georgetown. Time, 3 min. 14 sec.

TEAMS

Georgetown

J. F. SULLIVAN
C. J. McCarthy

H. M. ETCHISON

J. V. MULLIGAN

M. I. T.

HERBERT LAWRENCE WILLIAMS, '06, Captain

EDWARD LOWELL WILSON, '06

ROBERT HOWE, '06

GARDNER SABIN GOULD, '07



April 23, 24 and 25, 1903

SUMMARY OF POINTS BY CLASSES

1905-73 190	4–37 1906–18	3 1903-7
Event	Winners	Time, Height or Distance * 10 2-5 sec.
100-Yard Dash	J. W. WILLIAMS, '06 LE B. TURNER, '05 R. S. FRANKLIN, '04	10 2-3 sec.
220-Yard Dash	LE B. TURNER, '05 R. S. FRANKLIN, '04 H. L. WILLIAMS, '06	* 22 3-5 sec.
120-Yard High Hurdles	E. L. Ovington, '04 R. D. Emerson, '05 R. D. Farrington, '05	17 sec.
220-Yard Low Hurdles .	E. L. Ovington, '04 R. D. Emerson, '05 C. R. Haynes, '04	26 4-5 sec.
440-Yard Run	LE B. TURNER, '05 M. A. COE, '06 E. T. STEEL, 2D., '05	54 sec.

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880-Yard Run	R. P. Nichols, '05 E. L. Wilson, '06 H. L. Marsh, '06	2 min. 9 sec.	Technique 1905
One-Mile Run	E. F. Jenkins, '04 G. D'W. Marcy, '05 G. H. Buckingham,' 05	4 min. 44 2-5 sec.	
Two-Mile Run	F. B. RILEY, '05 E. H. LORENZ, '05 F. B. THURBER, '06	10 min. 36 3-5 sec.	
Running Broad Jump .	C. Lang, '04 R. S. Franklin, '04 C. F. Northrup, '06	20 ft. 9 in.	
Running High Jump	R. D. Farrington, '05 G. A. Curtis, '04 R. D. Emerson, '05	5 ft. 7 1-2 in.	
Putting 16-Pound Shot .	L. G. Morrill, '05 J. B. Baker, '04 B. E. Lindsly, '05	38 ft. 3 in.	
Throwing 16-Pound Hammer	rB. E. Lindsly, '05 W. J. Knapp, '06 W. S. Gouinlock, '05	* 111 ft. 9 in.	
Throwing the Discus	L. G. Morrill, '05 C. Lang, '04 W. S. Gouinlock, '05	. *110 ft. 2 1-3 in.	
Pole Vault	G. A. Curtis, '04 L. Phillips, '04 M. Mackie, '05		
Two-Mile Bicycle Race .	K. Tsuruta, '05 B. C. Eastham, '06 H. L. Dean, '05	5 min. 13 sec.	
* Technology Record			

^{*} Technology Record



October 22, 23 and 24, 1903

Event	Winners	Time, Height or Distance
75-Yard Dash .	W. B. Boggs, '04 (3 yds.)	8 sec.
	A. Fisher, '05 (6 yds.)	
80-Yard High	R. D. FARRINGTON, '05 (5 yds.)	10 4-5 sec.
Hurdles	E. P. Noyes, '07 (4 yds.)	
	C. R. HAYNES, '04 (scratch)	
80-Yard Low	E. B. Snow, Jr., '05 (6 yds.)	9 3-4 sec.
Hurdles	G. A. Curtis, '04 (5 yds.)	
	J. V. SANTRY, '06 (6 yds.)	
440-Yard Run .	J. J. Thomas, '07 (20 yds.)	54 4-5 sec.
	M. A. Coe, '06 (16 yds.)	
	R. Howe, '06 (19 yds.)	
880-Yard Run .	E. L. Wilson, '06 (scratch)	2 min. 11 4-5 sec.
	C. R. Boggs, '05 (16 yds.)	
	M. A. Coe, '06 (20 yds.)	
One-Mile Run .	G. D'W. MARCY, '05 (40 yds.)	4 min. 54 4-5 sec.
	F. W. HORTON, '04 (50 yds.)	
	E. H. LORENZ, '05 (45 yds.)	

Two-Mile Run .	E. H. LORENZ, '05 (scratch) D. ADAMS, '05 (60 yds.) B. B. HOLMES, '07 (110 yds.)	11 min. 13-5 sec.	Technique 1905
Running High Jump	R. D. FARRINGTON, '05 (scratch) F. W. BARROWS, '07 (6 in.) G. A. CURTIS, '04 (scratch)	. 5 ft. 9 1-4 in. 5 ft. 7 in. . 5 ft. 6 1-4 in.	
Triffic and the second second second	G. D. LUTHER, '07 (11 in.) D. K. KELLER, '04 (1 ft. 3 in.) C. Hoy, '04 (1 ft. 6 in.)	. 19 ft. 10 in. 19 ft. 7 in. 19 ft.	
	D. C. Schonthal, '05 (1 ft. 8 in.) J. C. Baker, '04 (1 ft.) V. H. Paquet, '05 (3 ft.)	36 ft. 1 in. 35 ft. 9 in. 35 ft. 3 in.	
Pole Vault	C. R. Burleigh, '06 (2 ft.) H. P. Farrington, '07 (2 ft.) H. G. McVay, '07 (1 ft. 8 in.)	10 ft. 6 in.	



MEPORTHOS



January 7, 1904

SUMMARY OF POINTS BY CLASSES

1904	1905	1906
18	17	15
Winners		Time, Height, or Distance
M. T. LIGHTNER, '06		4 2-5 sec.
C. Lang, '04		
E. P. Noyes, '07		
H. W. Richards, '07		
E. P. Noyes, '07		5 sec.
C. R. HAYNES, '04		
R. D. FARRINGTON, '0	5	
Н. Н. Needham, '04		
R. D. FARRINGTON, '0	5,	5 ft. 7 3-4 in.
G. A. Curtis, '04		
R. D. EMERSON, '05		
C. R. Burleigh, '06		
F. W. Barrows, '07		34 ft. 3 in.
V. H. PAQUET, '05		
G. A. Curtis, '04		
J. C. BAKER, '04		
	Winners M. T. LIGHTNER, '06 C. LANG, '04 E. P. NOYES, '07 H. W. RICHARDS, '07 E. P. NOYES, '07 C. R. HAYNES, '04 R. D. FARRINGTON, '0 H. H. NEEDHAM, '04 R. D. FARRINGTON, '0 G. A. CURTIS, '04 R. D. EMERSON, '05 C. R. BURLEIGH, '06 F. W. BARROWS, '07 V. H. PAQUET, '05 G. A. CURTIS, '04	Winners M. T. LIGHTNER, '06 C. LANG, '04 E. P. NOYES, '07 H. W. RICHARDS, '07 E. P. NOYES, '07 C. R. HAYNES, '04 R. D. FARRINGTON, '05 H. H. NEEDHAM, '04 R. D. FARRINGTON, '05, G. A. CURTIS, '04 R. D. EMERSON, '05 C. R. BURLEIGH, '06 F. W. BARROWS, '07 V. H. PAQUET, '05 G. A. CURTIS, '04

Pole Vault	G. A. Curtis, '04 * 10 feet Cechnique N. Fallon, '07 R. D. Farrington, '05 H. W. Kenway, '06
Potato Race	R. Howe, '06 53 4-5 sec. G. H. Chapman, '07 G. D'W. Marcy, '05 E. H. Lorenz, '05
Military Relay Race	Won by 1907—second 1905

^{*} Technology Record

CLASS CHAMPIONSHIP, 1902-1903

Champions, Class of 1905

The class championship is held by the class winning the greatest number of points in the Annual Indoor and Annual Spring Meets.

SUMMARY OF POINTS

	1903	1904	1905	1906
Indoor Meet, Jan., 1903	3	41	15	4
Spring Meet, May, 1903	7	37	73	18
	0	_		_
Totals	10	78	88	22



FOR the purpose of encouraging a more general practice of athletics among the students, there is held each winter, in the gymnasium, an All-Round Athletic Competition.

EVENTS

1903-1904

Running High Jump Putting the 16-Pound Shot 35-Yard Dash Pole Vault 40-Yard Low Hurdles Potato Race

CONTESTANTS IN ORDER OF POINTS WON

Name		Points	Name			Points
G. A. Curtis, '04		50	F. L. Snow, '05 .			9
R. D. FARRINGTON, '05		39	LE B. TURNER, '05			7
F. W. BARROWS, '07 .	. 36	3-4	H. B. CANOVER, '07		12	5
E. P. Noyes, '07	. 28	1-2	G. D. LUTHER, '07			5
J. C. BAKER, '04	. 25	1-2	R. Howe, '06			4 1-2
K. W. RICHARDS, '07.		24	A. FISHER, JR, '05		7	4 1-2
C. R. HAYNES, '04	. 21	1-2	J. TETLOW, '07 .			4
V. H. PAQUET, '05	. 17	-12	E. H. LORENZ, '05			4
D. C. Schonthal, '05		16	W. S. Moore, '07			3
R. D. EMERSON, '05 .						3
R. C. Albro, '07		11	B. Bullard, '07 .			3
G. C. Young, '06		10	A. W. GEIST, JR., '06	6	,	1
			W. A. T. MOFFATT,	'06		1

Third Annual Field Day

XXX

O the main body of Institute men the 1903 Field Day was a disappointment, because its contests lacked enthusiasm and vigor. The football game, relay race, and tugof-war were all one-sided, and all were won with equal ease by 1906. The Freshman teams were not trained; and this, at least in the case of the football team, was not due to lack of effort



FOOTBALL GAME

on the part of the Juniors, but to the indifference of the men themselves. In addition, the cheering from both grand stand and bleachers was poor, and the band had apparently not even thought of attending. Nevertheless, though the Field Day suffered badly from comparison with its

predecessors, it was by no means a failure, and the Sophomores should be given full credit for their victory. Let this year's expe-

rience only be a warning to 1907 and 1908 next year.

SUMMARY OF POINTS

1906		1907
4	Football Game	0
3	Relay Race	0
2	Tug-of-War	0
_		_
0		0

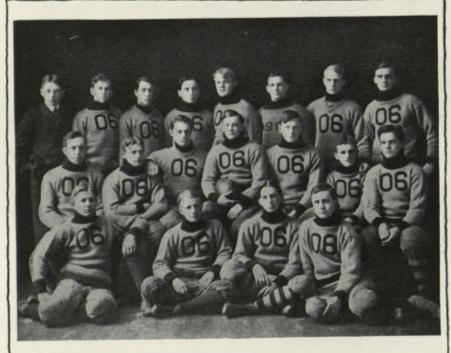


START OF RELAY RACE



1906 Football Team





VINTON BARBER TAYLOR HENDERSON HARDY LORING WILLIAMS MATHESIUS
SANTRY SOULE FRIEND GEIST MOORE REED COEY
LASHER EATON MANSON GRIFFIN

STATE OF THE PROPERTY OF THE P



Champions 1903, Field Day

Captain						Manag	er	
Alfred W. Geist, Jr				MERE		EUGEN		NTON
RALPH OMAR REED .	٠.						Lef	t End
ALLYN CHANDLER TAYLOR							Lef	t End
RALPH NELSON SOULE .						. L	eft T	ackle
CLARENCE EMMETT LASHER						. L	eft T	ackle
FRED MOORE						. 1	Left (Guard
CHARLES GREELY LORING			1783			-	. (Centre
ANTHONY PAUL MATHESIUS		1.	-			10	(Centre
FRANK WALDO FRIEND .						. Ri	ght (Guard
GEORGE MITCHELL HENDERS	ON							ackle
JAMES EDWIN GRIFFIN .			14				Righ	t End
ALFRED W. GEIST, JR .						Qu	arter	Back
HENRY DOUGLAS EATON .						Qu	arter	Back
RAYMOND JENNESS BARBER						Left	Half	Back
JOSEPH VINCENT SANTRY .						Left	Half	Back
WILLIAM ABBOTT HARDY						Right	Half	Back
HERBERT LAWRENCE WILLIA	MS					Right	Half	Back
STEWART CLARK COEY .								Back
Alfred W. Geist, Jr		1	2				Full	Back
SCHE	DUL	EOF	GA	MES				
Oatabas 17 1006 - Dadh	Ц	:_b C_	h-a-l					O-10
October 17, 1906, vs. Dedh October 21, 1906, vs. Mech		-		ab and				0-10
			ign 5	chool			10400	0-0
October 24, 1906, vs. Boyls			1	- 1	35	17		0-0
October 28, 1906, vs. Harva					*			0-0
October 31, 1906, vs. Lowe				*0			200	
November 7, 1906, vs. 1907							2	17-0
Games won 1	Gan	nes tie	d 3		Gam	es lost	4	



Captain				Ma	nager		
JAMES HOLLAND MULCARE		WILL	AM L	YSAN	DER W	Tood	WARD
OSCAR HENRY STARKWEATHER				*		Le	ft End
VERNON STONE ROOD	12		- 1		. L	eft 7	Γackle
JOHN BROTHERLIN	2		1,000	2	. 1	Left	Guard
HOWARD J. MORTON			10.00	265		(Centre
GEORGE APPLETON GRIFFIN			*		R	ight	Guard
HARRY RUTLEDGE HALL	13				Ri	ght 7	Γackle
GEORGE HOBART CHAPMAN						Righ	t End
JAMES HOŁLAND MULCARE .					Qu	arter	Back
CLARENCE RONALD LAMONT .			100		Left	Half	Back
CYRUS HENRY LOUTREL				10	Right	Half	Back
PAUL FREDERICK						Full	Back
JOHN PRENDERGAST	•		90	*		Full	Back
SCHEDUL	E O I	f G A	MES				
Date							Score
October 14, 1907, vs. Newton Hig			3.5			*	4-15
October 17, 1907, vs. Lawrence H						10.5	0-0
October 21, 1907, vs. Brookline H	400		2.00				0-0
October 24, 1907, vs. Salem High			100	1		150	0-12
October 28, 1907, vs. Haverhill H			-55	*:			0-32
October 31, 1907, vs. Medford Hi	gh So	chool	- 0				12-5
November 7, 1907, vs. 1906 .	22		2.		-	100	0-17
Games won, 1 Game	es tie	d, 2	(Jame	s lost,	4	



Captains

HERBERT JAMES MANN, '06

ERSKINE PHILLIPS NOYES, '07

Managers

UTAR JAMES NICHOLAS, '06 ERSKINE PHILLIPS NOYES, '07

TEAM-1906

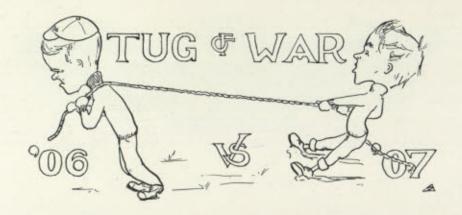
ROBERT HOWE WILLIAM ANDREW G. MOFFATT NATHANIEL ALDRICH WHITE WILLIAM FRANKLIN ENGLIS FAY WILMOTT LIBBEY

GEORGE ROCKWELL GUERNSEY HERBERT JAMES MANN FREDERICK BERTINE GUEST MAXWELL ALANSON COE EDWARD LOWELL WILSON

TEAM-1907

FREDERICK WILLIAM BARROWS ROLAND HOWARD WILLCOMB GEORGE DILLEN LUTHER KARL WILLIS RICHARDS JOHN JOSEPH THOMAS

ERSKINE PHILLIPS NOYES HUGH BEDH CONOVER GARDNER SABIN GOULD EMORY CHASE NOYES WILLIAM S. WILSON



Captains

NUGENT FALLON, '06

RALPH GORTON HUDSON, '07

Managers

JOHN EDGAR SIMMONS, '06

HAROLD SAYWARD WONSON, '07

TEAM-1906

J. W. JOHNSON	H. E. Young	A. B. SHERMAN
W. L. ROWELL	Q. P. EMERY	J. H. Polhemus
G. F. Hobson	C. C. RAUSCH	C. A. FARWELL
H. A. TERRELL	W. H. P. WRIGHT	J. A. KANE
W. G. LAWRENCE	R. J. Ross	H. V. O. Coes
C. F. WETTERER	L. H. TRIPP	W. A. SHELDON
W. J. WALKER	H. B. HALLOWELL	H. P. CARRUTH
F. H. BENTLEY	N. FALLON	E. C. STANTON
	R. HURSH, Anchor	

TEAM-1907

E. G. HUKILL	F. C. JACCARD
A. Zuest, Jr.	L. F. HALLETT
R. H. HALL	H. R. CROHURST
R. W. PARLIN	A. POPE
L. C. HAMPTON	W. P. Monahan
F. W. GORDON	S. R. MILLER
F. E. BANFIELD, JR.	R. G. HUDSON
J. F. REHN	H. S. Wonson
J. P. HINCKLEY, Anchor	
	A. ZUEST, JR. R. H. HALL R. W. PARLIN L. C. HAMPTON F. W. GORDON F. E. BANFIELD, JR. J. F. REHN



OFFICERS

President

RALPH BROWN WILLIAMS

Secretary FERNANDO MORENO BLOUNT FREDERICK SCHUYLER KRAG

Treasurer

EXECUTIVE COMMITTEE

RALPH BROWN WILLIAMS FREDERICK SCHUYLER KRAG HENRY SIMONDS HUBBELL

> Captain FREDERICK SCHUYLER KRAG

TEAM

JOSPEH MULLIN BAKER HUDSON BRIDGE HASTINGS

QUINCY PIERCE EMERY HENRY SIMONDS HUBBELL FREDERICK SCHUYLER KRAG EDWARD FARNUM ROCKWOOD

RALPH BROWN WILLIAMS

HONORARY MEMBERS

HENRY S. PRITCHETT FREDERICK H. BAILEY

HARRY E. CLIFFORD DAVIS R. DEWEY

MEMBERS

J. M. BAKER Q. P. EMERY H. B. HASTINGS F. S. KRAG B. POOLE W. M. VAN AMRINGE

L. G. BOUSCAREN, JR. T. M. GILMER H. S. HUBBELL M. LICHTENSTEIN E. F. ROCKWOOD H. S. WILKINS

R. B. WILLIAMS



Fencing Team





GATEWOOD LEH

WARREN Manager

J. MADERO LAGE

FOURNON B. MADERO FOGARTY Coach



Captain JORGE LAGE

DUNCAN GATEWOOD

LEWIS ADAMS RILEY, 2D.

Substitutes

WILLIAM BAILEY FOGARTY BENJAMIN MADERO HAROLD MARCUS LEH JULIO MADERO

Manager, CLARKE EDWARD WARREN

MATCHES

			Sc	ore
January 15		Technology vs. Harvard .	. 4	1-5
February 10		Technology vs. Harvard .	. 4	-5

QUADRANGULAR MEET

Hemenway Gymnasium, March 4, 1904

between

Harvard Pennsylvania M. I. T. Yale Won by M. I. T., 18 points

2d, Pennsylvania, 14 points; 3d, Yale, 12 points; 4th, Harvard, 10 points

FIRST FIVE MEN IN ORDER OF INDIVIDUAL HONORS

Name and College			1	Bouts We	on.			Bouts	Lost
LAGE, M. I. T.	*		2	9	2	1			0
GATEWOOD, M. I. T				8					1
FRICK, Pennsylvania				7	*				2
HOWLAND, Yale		-		6				*	3
HOLMES, Harvard		-		4			100	- 1	5



Basket Ball Team





CARLIN,

WIGGINS

GOLDTHWAIT

MATHISON BLAKE BURLEIGH . SCHONTHAL

AGER

BARTLETT



Captain

Manager

HOWARD COLBURN BLAKE, '06 FRED WARREN GOLDTHWAIT, '05

TEAM

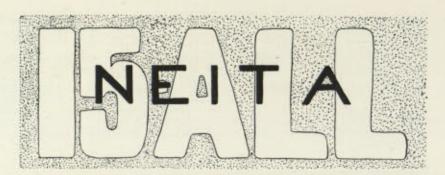
HOWARD COLBURN BLAKE, '06 .				240		2.5	*	Left Forward
WILLIAM E. H. MATHISON, '06	10		4			(0)		Right Forward
CHARLES RANDALL BURLEIGH, '06					14			Center
ELMER WESLEY WIGGINS, '05 .		5/						Right Guard
JOHN WINTHROP AGER, '04			-				13	Left Guard

Substitutes

STEWART CLARK COEY, '06 PAUL FREDERICKS, '07

GAMES

Date					Score
December 8,	Technology vs. Boston University	183			35-18
December 12,	Technology vs. Holy Cross				16-12
December 16,	Technology vs. Boston Y. M. C. A.			*	23-8
	Technology vs. Worcester Polytechnic				
					29-16
February 10,	Technology vs. Brown University		200		24-22
February 17,	Technology vs. Amherst College				28-25
March 9,	Technology vs. Worcester Polytechnic				
March 12,	Technology vs. Andover Academy .				



THE New England Intercollegiate Lawn Tennis Association holds one tournament in May of each year, in which each college is represented by two single teams and one double team.

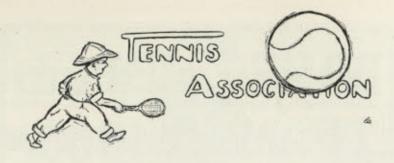
OFFICERS

President Secretary and Treasurer L. T. WALLIS, Dartmouth ARTHUR W. POPE, Brown MEMBERS OF THE ASSOCIATION Amherst College Colby College Tufts College Bates College Dartmouth College University of Vermont Brown University Trinity College Wesleyan University Massachusetts Institute of Technology Williams College FOURTH ANNUAL TOURNAMENT Longwood, May 26, 1903 SEMI-FINALS Singles - TURNER, Amherst, defeated JONES, M. I. T. 7-5, 9-7 LYON, Williams, defeated, WILLIAMS Amherst 6-4, 6-3 FINALS Lyon, Williams defeated Turner, Amherst 7-5, 1-6, 6-2, 6-0 SEMI-FINALS Doubles-LIBBY and DANA, Bowdoin, defeated JONES and LANGLEY, M. I. T. 6-3, 6-4 WALLIS and STEVENS, Dartmouth, defeated WISE and KNIGHT, Tufts, default FINALS LIBBY and DANA, Bowdoin, defeated WAL-LIS and STEVENS, Dartmouth 6-2, 7-5, 2-6, 6-2

Technology Representatives

ARTHUR HOOPER LANGLEY

JOSEPH RUSSELL JONES



THE Technology Tennis Association holds one tournament, open to all Technology students, in the fall of each year.

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REGINALD HAZELTINE, '04

Secretary and Treasurer
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FALL TOURNAMENT, 1903

The tournament was not completed in the fall on account of the early winter. The matches to be played in the spring are:—

Semi-Finals

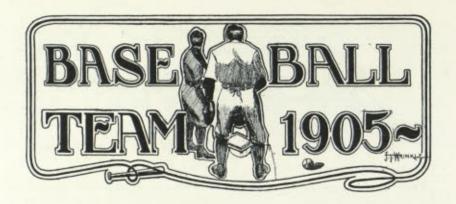
Singles, R. HAZELTINE vs. S. M. HENRY

Finals

Singles, W. A. HOPKINS vs. WINNER OF ABOVE

Doubles, R. C. REED and C. J. RICH, vs.

A. H. LANGLEY and R. HAZELTINE



Captain	Manager							
HENRY LAWRENCE DE	AN		EA	RLL C	HASE	WE.	AVER	
EDWIN BRUCE HILL .	1.01	-					Firs	st Base
EMIL STEINBERGER				£3:			Secon	d Base
HENRY LAWRENCE DEAN	31		1		2		Sho	rt Stop
THEO. AUGUSTINE DISSELL							Thir	d Base
ALFRED DENNET SMITH .							Righ	t Field
GEORGE MERRILL BARTLETT			4			8.	Cente	r Field
HERBERT MYGATT WILCOX		1				1	Lef	t Field
Percy Leonard Wells } Walter Burns	(8)		,				C	atchers
WILLIAM HUGH LALLEY ROBERT BURTON GREGSON	}			100	8:		P	itchers
	Sul	stitutes						
RALPH KAY FORSYTH			P	HILIP E	DWA	RD I	HINKL	EY
ROBERT SHERMAN GARDNER			0	тто И	TILLI	AM I	ick	
Sche	DUL	EOF	G A	MES				Score
April 18, 1905, vs. Malden Hi	igh S	chool						13-18
April 20, 1905, vs. Stoneham								16-10
April 28, 1905, vs. Tufts, 190		CHOOL						9-5
May 9, 1905, vs. 1906.								12-4
May 16, 1905, vs. 1906 .			*			2.5	***	11-12
May 19, 1905, vs. 1906 .								9-10
Approximate the second of the				Cames	loct	3		0.10
Games won, 3			- 1	Games	lost,	0		



CLASS CHAMPIONS - 1902-1903

Captain			Manager						
GEORGE MORRIS W	INN	E	WI	LLIAN	ı Aı	LEN R	EDD	ing, J	R.
WALTER BREVORT WYM	IAN				4				Pitcher
ROWLAND PARKER DAVIS	S								Pitcher
WILLIAM ALLEN REDDIN	G, J	R						(Catcher
PATRICK JAMES KENNED	Y					7.00		Fir	st Base
GEORGE MORRIS WINNE								Secon	d Base
HAROLD STREETER .								Thi	rd Base
ABRAHAM LAMPIE .								Le	ft Field
ARTHUR SCOTT THOMAS					4			Cente	r Field
JOHN FRANCIS HALEY								Righ	t Field
SIDNEY TAYLOR CARR				2				Sho	rt Stop
		Subs	titutes						
BURNELL POOL JAMES ALLEN KANE	ē	¥		2	¥.			I	n Field
Date S (СНІ	EDUL	EOF	G A	MES	5			Score
April 18, 1906, vs. Harva	ard.	1904				100		72	3-12
April 20, 1906, vs. Frank								- 5	14-11
April 22, 1906, vs. Bates									0-19
April 23, 1906, vs. Harva						100			2-24
May 9, 1906, vs. 1905						-	7		4-12
May 11, 1906, vs. Tufts		edical C	ollege						14-6
May 16, 1906, vs. 1905									10-9
May 19, 1906, vs. 1905		134							12-11
Games wo				(Jame	s lost,	4		



THE New England Intercollegiate Golf Association was formed in May, 1903, with Amherst, Bowdoin, Brown, Technology and Williams as charter members. The Association holds one tournament in the fall of each year.

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R. B. WILLIAMS, M. I. T.

FIRST ANNUAL TOURNAMENT

Wannamoisett Club Links, Providence, October, 1903.

SUMMARY OF POINTS

Brown, 21

M. I. T., 17 1-2

Amherst, 3

Bowdoin and Williams were not represented

M. I. T. TEAM

QUINCY PIERCE EMERY, '06

H. B. HASTINGS, '07

HENRY SIMONDS HUBBELL, '06

FREDERICK SCHUYLER KRAG, '06

RALPH BROWN WILLIAMS, '04



Records

1.36%

United States m. E. J. A. A. m. J. E. a. a. Collegiate 100-Yard Dash 93-5 sec. 10 sec. 101-5 sec. A. DUFFY A. E. CURTENIUS R. S. Franklin, '03 Georgtown Amherst H. H. CLOUDMAN Bowdoin 220-Yard Dash 21 1.5 sec. 22 1-5 sec. 22 3-5 sec. B. J. WEFERS H. H. CLOUDMAN LE B. TURNER, '05 Georgetown Bowdoin 120-Yard High Hurdles 15 2-5 sec. 15 3-5 sec. 16 2-5 sec. A. C. KRAENZLEIN S. CHASE E. L. Ovington, '04 Dartmouth Pennsylvania 220-Yard Low Hurdles 23 3.5 sec. 25 4-5 sec. 25 4-5 sec. A. C. KRAENZLEIN G. P. BURCH G. P. Burch, '99 Pennsylvania M. I. T. P. P. EDSON Dartmouth 440-Yard Dash 50 1-5 sec. 47 3-5 sec. 51 1-5 sec. W. BAKER G. B. SHATTUCK J. A. ROCKWELL, '99 Harvard Amherst

[170]

880-Yard Run

1 min. 58 2-5 sec. C. H. KILPATRICK Union College 1 min. 50 sec. H. S. BAKER M. I. T.

1 min. 59 sec. H. S. BAKER, '03 Cechnique

One-Mile Run

4 min. 23 2-5 sec. G. W. ORTON Pennsylvania 4 min. 25 3.5 sec. A. L. WRIGHT Brown

4 min. 30 3-5 sec. H. S. BAKER, '03

Two-Mile Run

9 min, 51 3-5 sec. ALEX GRANT Pennsylvania 10 min, 3 3-5 sec.
O. N. BEAN
Brown

10 min. 36 3-5 sec. F. B. RILEY, '05

Running Broad Jump

A. C. KRAENZLEIN Pennsylvania H. C. VAN WEELDEN A. W. GROSVENOR, '99
Trinity

Running High Jump

W. B. PAGE Pennsylvania 5 ft. 934 in.

I. K. BAXTER

C. D. HEYWOOD, '93

Trinity

Pole Vault

J. L. HURLBURT Wesleyan J. L. HURLBURT G. A. CURTIS, '04
Wesleyan

Putting 16-Pound Shot

F. BECK Yale 42, ft 6 14 in.

S. R. E. ROLLINS

H. P. McDonald, '01

Amherst

Throwing 16-Pound Hammer

165 ft, 1 1-2 in, A. PLAW California

A. C. DENNING Bowdoin

B. E. LINDSLY, '05

Technique

A. M. WATSON
Maine

Throwing the Discus

A. M. WATSON
Maine

L. G. Morrill, ' 05

Two-Mile Bicycle Race

4 min. 36 4-5 sec. R. MURRAY M. I. T. 4 min, 36 4-5 sec. R. MURRAY M. I. T. 4 min, 36 4-5 sec. R. MURRAY, '01

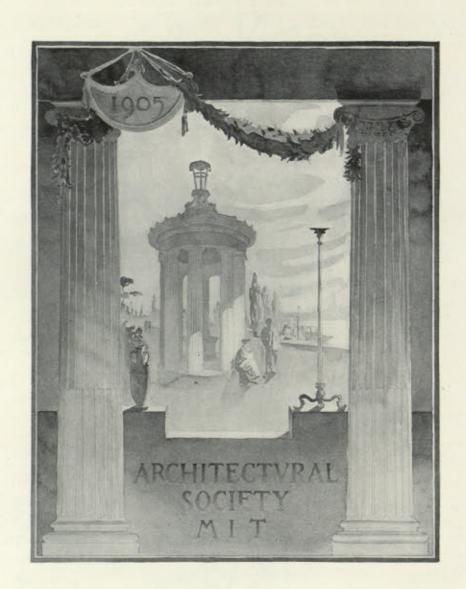
SPECIAL EVENTS OF THE M. I. T. A. A.

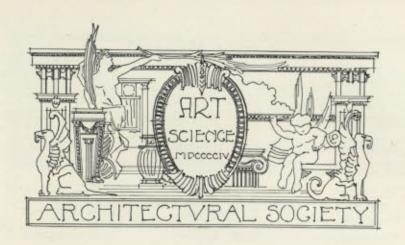
Event	Holder	Time, Height or Distance				
35-Yard Dash	A. W. Grosvenor, '99			4 sec.		
35-Yard Low Hurdles	J. W. HORR, '02			. 4 3-5 sec.		
Running High Jump	R. D. FARRINGTON, '05			5 ft. 7 3-4 in.		
Putting 16-Pound Shot	F. W. BARROWS, '07			. 34 ft. 3 in.		
Pole Vault	G. A. Curtis, '04			10 ft. 1-2 in.		
Potato Race	J. A. ROCKWELL, JR., '96			. 50 1-5 sec.		

RECORDS ESTABLISHED DURING THE PAST YEAR

Event	Holder Record	
100 - Yard Dash .	RALPH STOWELL FRANKLIN, '03 10 1-5 sec.	
220 - Yard Dash .	LE BARON TURNER, '05 22 3-5 sec.	
120-Yard High		
Hurdles	EARLE LEWIS OVINGTON, '04 16 2-5 sec.	
Two-Mile Run	Francis Bradford Riley, '05 10 min. 36 3-5 sec.	
Throwing 16-Pound		
Hammer	BEN EDWIN LINDSLY, '05 118 ft.	
Throwing Discus .	LEON GILBERT MORRILL, '05 . 110 ft. 2 1-2 in.	
Pole Vault	GEORGE ALDEN CURTIS, '04 10 ft. 9 1-2 in.	
Pole Vault (indoor)	GEORGE ALDEN CURTIS, '04 10 ft. 1-2 in.	







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F. NICKERSON	1				
H. W. Rowe	(14	Ex	ecutiv	e Committee
B. A. RICHARDSON)				

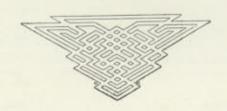
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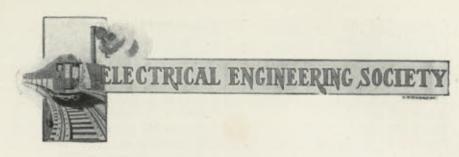
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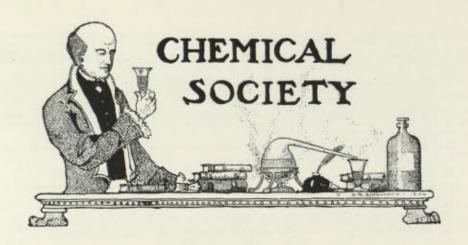
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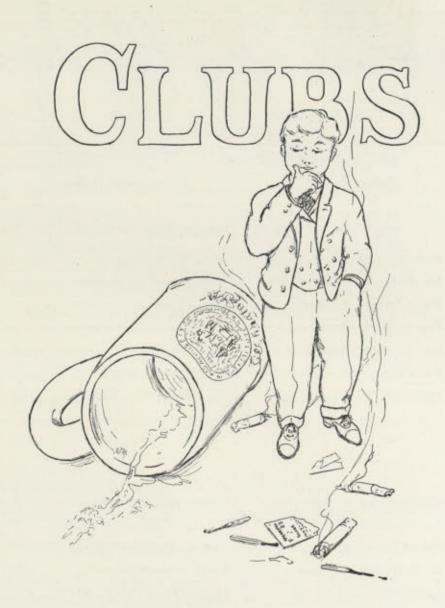
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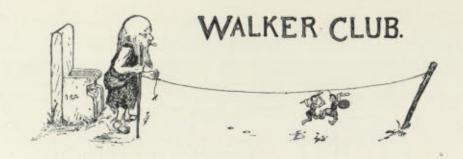
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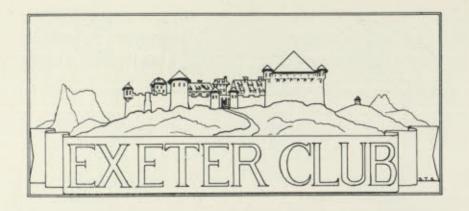




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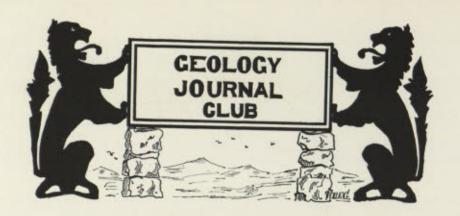
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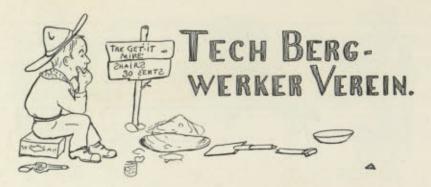
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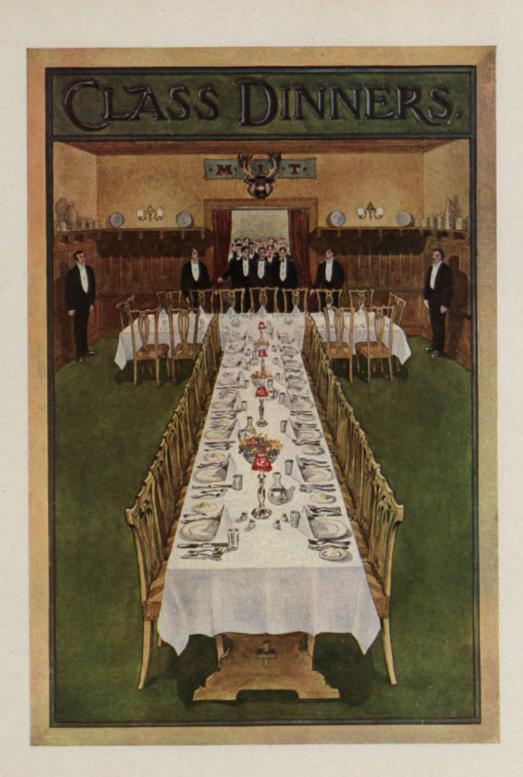
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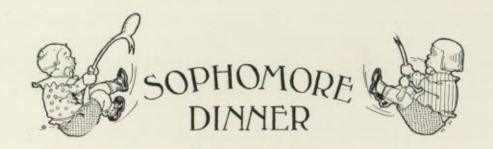
Welcome .		-				WALTER ELBRIDGE HADLEY
Class Day						GUY WARNER EASTMAN
			М	USIC		
Senior Portfol	lio .	4				GEORGE HARDY POWELL
Class Spirit				*	,	. DAVID ELWELL

Held at Tech Union, February 25, 1904



Toastmaster JOHN HAMPDEN HOLLIDAY, JR.

The Tech Komn	"The name	is a talisman g good fellow	, banish	ing car	. Prof. Arlo Bates
The Elusive S.	"The fickle	scroll we long	g to clas	LEON P,	ARD THEAKER BUSHNELL
Nostri Cari Pa	"They guide	ate . e our footstep uently direct	s, apt to	roam,	Prof. HARRY W. TYLER
In Cupid's Real	"Ye maiden	faire upon ye and saye, "	streete		. Norman Lombard
Reminiscenses	" Of all the c		up to d	late,	. Homer Albers
What's the Use	"Eat, drink,	and be merry ow we flunk.	7,	7)	CHARLES DEAN KLAHR
Grouches and G	"The more se	eriously you to	ake your	rself,	rof. HARRY E. CLIFFORD
The Profs	" Think what				EARLL CHASE WEAVER
The Wizard of	the Forge "Strike light		; is.''		JAMES A. LAMBRITH



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RUTHERFORD BINGHAM

On Behalf	of the	Pig	13		. Joseph Thomas Lawton, Jr.
Technique				1	WALTER ELBRIDGE HADLEY, '04
Physics				-54	MERRICK EUGENE VINTON, JR.
Athletics				-121	MAXWELL ALANSON COE
Margaret	Cheene	y			. Anthony Paul Mathesius

Held at Tech Union, March 8, 1904

Impromptu



Toastmaster

NATHAN ATHERTON MIDDLETON

Welcome .		٠			. GEORGE WILLIAM OTIS
Union Informal	Affairs	*		2.5	DEAN BURTON
Music .				242	ORCHESTRA
Class Affairs					GEORGE APPLETON GRIFFIN
Flocculent Precip	itates				Prof. Talbot
Solo				24	RALPH BARTON SANDERS

Held at Tech Union, March 11, 1904

Letters to a Brother

Je 36.36

DEAR JIM:-

As an older brother who also has had hopes of carrying a spear in the fourth act, I should advise you to put your best foot forward and make your relay team if you can; that is what your father and I sent you to Yale for. Between you and me, your older brother lived on the Sound for four years just to get his name into a certain list of editors, and I had to be content with only an A.B. for all my trouble. You'd better try to knock around with everybody. That's the way a cue ball is one among the whole bunch of sixteen. This keeping indoors with no company but next year's summer reading and an object in life may have advantages, but it's way out of focus for my seeing it. Now, for instance, there's Tige's roommate this year. He's a sticky mess yelept N. Gillespie somethingor-other, and he sure knows no carelessness. With him nothing ever did or does, for all his doings are cash-accountable. He watches papa Lewando, mamma Lewando and all the little Lewandoes, lest they take along his sofa pillows and chiffonier drawers for increments to the bill-collector's graft; and even his Tux is not stuck-up, for it has never been kicked over his closet floor slivers. He goes in for the weighty, and spills the light like a total reflecting prism. He's most always asleep at the switch, and anybody can give him a steer that would sidetrack a way freight. He slushes on poetry writing. I saw some the other day, and it had a meter like a worn-out preceder of a burnt gasoline odor trying to scan a hill. I know he's poor leather, and I'm all agog to try putting him under the pump and see if he won't harden when he dries.

Your brother,

November thirty.

Lou.

Technique

Say, I'm in love. Smother it. For this time I'm way in with only my longest toe touching bottom. Did I knock Tige's roommate in the last letter? Well, it was my mistake. I have made fast friends with him. You ought to see his sister. She has each sine qua non of none-such young girlhood,-beauty, brains and bullion. She lives about two drives and a putt up an illnurtured branch of the B. & M.; the last train into town leaves at 9.12, and the only places to put up at are the Eagle Hotel and the Union House. I know well enough why I am staying with the game; but then, again, it seems sort of odd, for every time I go up there I worship afar off, fearing frightfully; and the two times I have had her down here for matinees you would have put me on the census as an officiating undertaker. Well, the other day I drew trumps in the shape of cards for a dance at the girls' school she takes up with in her home town, and along with them her mother gave me an excuse for a future bread-and-butter letter. I suffered through all but three of the dances with a lineup of maidens not old enough to know better; but those three dances and the careless raid we two made on the pantry afterward seemed good to your kinsman Louis. And the provisions I drew -well, that high-life pie-smiting so put these sad Bostonese handouts to the bad that I am filled with a huge hankering for the nearly here hiking home. When I left I tried to work a sweet sorrow of parting stunt, but there was about a yard to gain.

Your brother,

Lou.

December eighteen.

Technique DEAR JIM:-

1905

For making resolutions give me all day New Year's or an early morning in spring when the first hurdy-gurdy is a few doors down the street. I have cut all day that I might dream of a very future very strenuous life. It's been a case of loafing on the home stretch, for years may come and years may go, but Tech runs on forever. Even I am betting that it's the faculty that breaks the tape on midyears, and then I see where they enter me for a heat in Jummer School. Such an event will put off our European knockabout act until after next year's curtain, but when I do get out we'll prove half a loaf about infinity per cent better than none. At present, with exams so near, they are working us like the last hours of a six-day race. Our being penned up under a green lampshade makes us Techers narrow, but we are getting good things after all. Just now, while we fellows seem to be having a hard time lifting around the heavy scenery, perhaps it is to smile for you people behind the grease paint; but I have noticed that when the show breaks up the college man gets a place on the brakerods and is cussed, while the Tech man takes a position as brakeman and is paid. When you were up to the game last fall I half agreed to your sundry caddie cracks about the average Tech man. Now, seriously, Jim, anybody can "become a gentleman" at college. The readymade article is there, to be had for the asking—and it is worth only what it costs. At Tech it takes much more of a man, and the man must work far harder to live up to the better things; and as the cost is greater, so is the result. We have many a man to whom Tech is giving good gifts. It is to him who, while learning to make real drawings, sometimes cuts the leaves of a real book with one blade of his right line pen.

Your brother,

January one.

Lou.



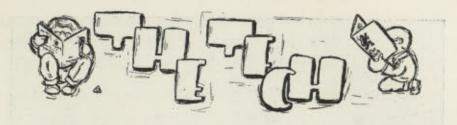


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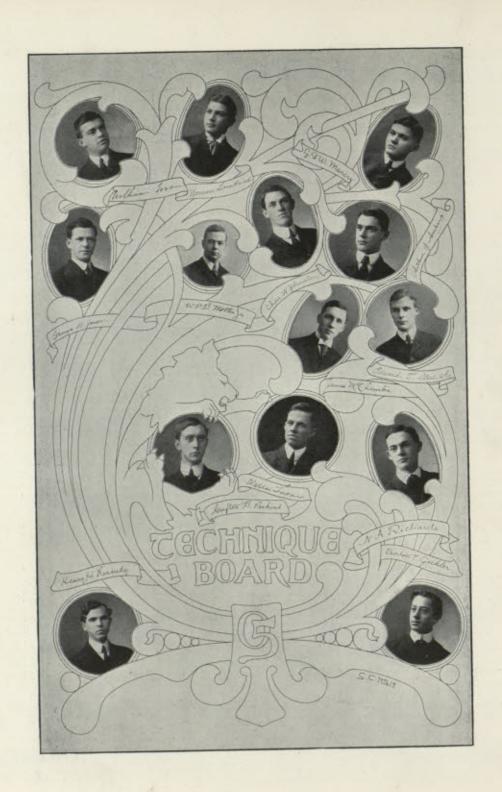
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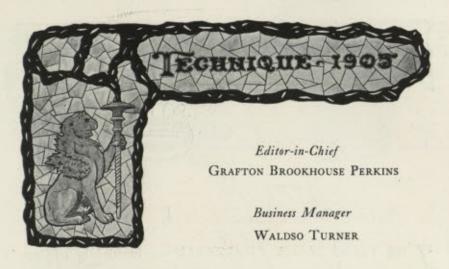
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THE TECHNOLOGY QUARTERLY was founded by students of the Classes of 1887 and 1888, William S. Hadaway, Jr., '87, being the first Editor. In two years a Committee of the Faculty took charge of The Quarterly and Mr. James P. Munroe was appointed Editor. Later, in 1892, the Society of Arts undertook its publication, and combined with it their proceedings. It is now conducted by that Society through an Editor and a Board of Publication. It has become the official journal of the Institute for the publication of the results of research by officers, graduates, and students.

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THE TECHNOLOGY REVIEW is published quarterly by the Association of Class Secretaries. Its object is to promote the welfare and advancement of the Massachusetts Institute of Technology by keeping its graduates and others interested in its progress in touch with it. In its articles are discussed the growth and expansion of the Institute, the general problems of education that pertain to it, and the important achievements, both in engineering and science, of its past students. It also reports in an informal way the actions taken by the Corporation and Faculty, the meetings of the Alumni Associations, and the news relating to the Technology Club, to student organizations, and to the social life of the Institute in general. It presents also the personal information obtained by the Class Secretaries in regard to the occupations and activities of former students. It has already a large circulation, and is an important factor in extending the knowledge of the work that the Institute is doing.

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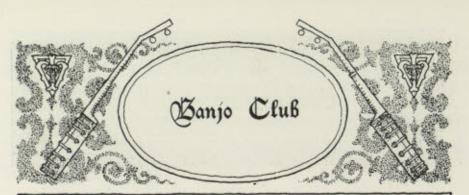
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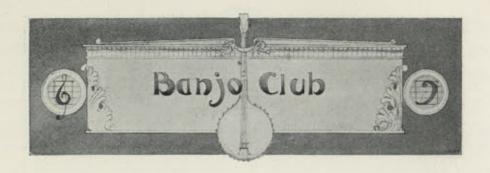
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THE purpose of the Technology Club is to provide and maintain a suitable place for reading rooms, libraries, and for social meetings of its members, and to promote the welfare of the Massachusetts Institute of Technology and the common social interests of its past and present officers and students. Undergraduate membership is opened to members of the Junior Class after the first of April.

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THE Co-operative Society succeeded in again giving the sum of nine hundred dollars in scholarships, thus keeping up to its record of last year. The Society has for its object the furnishing of financial aid to needy students. The funds are raised by the sale of text-books and instruments at the co-operative branches and the sale of membership tickets. The Society has given assistance to seventy-one students to complete this course of study at the Institute, and has distributed eight thousand seven hundred and twelve dollars.

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TECH REUNION

June 6, 7, and 8, 1904

THE graduation of the Class of 1904 and the end of the current school year are to be marked by the first general reunion of Institute men from all parts of the country and from other countries.

The program now in preparation by representatives of the Alumni Association, the Technology Club, the Class Secretaries' Association and the Faculty, will include a Reception to the Class of 1904, Tech Night at the Pop Concert, class dinners, spreads, and excursions, a Harbor Excursion and a final Banquet, with distinguished speakers.

More than one thousand are expected to participate.

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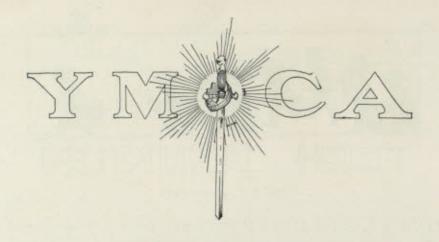
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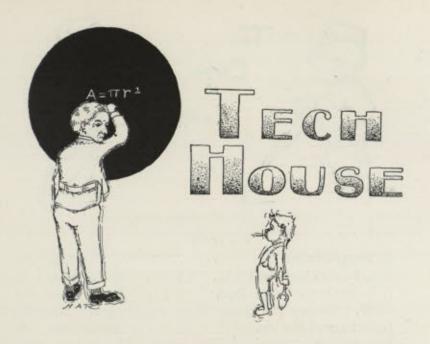


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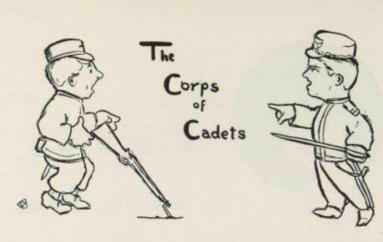
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The Future Location of the Institute

2.2.20

S TECHNIQUE goes to press the suit of the Natural History Society against the Massachusetts Institute of Technology is still held under consideration by the court, decision being reserved until after trial of the suit which the abutters have brought against the Institute. As this latter cause may require some time for settlement, a brief review of the case may not be out of order here. After considering the law of the question we will pass on to a review of the various plans proposed for increasing the capacity of the Institute buildings.

By the grant of 1861 the Massachusetts Institute of Technology was given, with certain restrictions, the use of the westerly two thirds of the block on Boylston Street which is now occupied by Rogers and Walker Buildings. The only two of these restrictions which are of interest to us now are: that the Institute shall build on but one third of its allotted ground; and that the square shall "be reserved from sale forever, and kept as an open space." The General Court, by an act passed in May, 1903, withdrew these restrictions, whereupon the Institute immediately began the erection of a new building on the hitherto forbidden ground between Rogers and Walker. Now come the Natural History Society and the abutters on Newbury Street suing in equity to restrain the Institute from erecting said building. They say substantially that their lots were sold at a higher figure than others not facing on the square, their value having been enhanced by assurances given, by plans and otherwise, that the square was to be perpetually maintained as an open space and a sort of public park, and to be planted and "maintained in a manner satisfactory to the

Technique Governor and Council." They claim, therefore, an "equitable easement," and base their case on this claim. Such, in brief, is the present status of the title of the Massachusetts Institute of Technology to this land. The decision of the court will be heard with interest.

> Now let us suppose for a moment that the Institute secures this land absolutely free from restrictions other than customary set-back provisions. What should it do? Should it build on the now unoccupied land, or should it move to larger and more commodious quarters? Many arguments are advanced both for and against moving, but it is generally thought that those arguments in favor of this radical step greatly outweigh those opposed to it. The land on Boylston Street is worth on the market about two million dollars. This, with the square occupied by the Engineering and Lowell Buildings, would furnish enough money to secure land and to erect suitable buildings in some outlying quarter of the city, so that now we must concern ourselves with deciding which land should be secured. In selecting a site for the Institute certain principles should be kept in mind, in order, so far as possible, to defer to the arguments of those opposed to moving. We should not go outside of the limits of the city of Boston, as by so doing we sacrifice the moral support due to our location in the intellectual center of America. Furthermore, it is to be doubted whether any city or town government would be as willing to exempt the Institute from taxes as Boston is. The new site must be convenient of access, and should be capable of being made architecturally beautiful.

> Several sites have been suggested, all fulfilling, to a greater or a less degree, the above requirements. The plot of land on the Cambridge side of the Charles River near Harvard Bridge is one which would admit of an imposing display of buildings when the Charles is improved as is now planned; boat houses, dormitories, and fraternity houses could be built along the river front, and would add materially to the beauty of this proposed "lake park." The site is readily accessible, being more convenient to the North Station than the present location on Boylston Street.

Another plot of land is that directly across the street from the technique "athletic field," so generously presented some time ago by Samuel Cabot. Though the field itself is in the town of Brookline, and therefore serviceable for only such uses as athletics and surveying practice, there is directly across the street from it a large, unoccupied space, which is in the city of Boston. This location is convenient to way stations of the Boston & Albany and the New York, New Haven & Hartford Railroads, and though now rather inaccessible from Boston it might readily be made less so by the extension of the street railway system.

The Allston Golf Links, as well as the space in Watertown, both of which have been thought of, offer opportunities for architectural display. Both are fairly convenient, and the Allston site has the further advantage of a beautiful view and situation in the city of Boston proper. But the location that seems now to be most favorable is that on the Boston side of the Charles River, at a point about opposite Harvard Square and directly across the street from Soldiers' Field. There are here available for use about sixty-five acres of land bordering for some distance on the river. The proposition to locate the Institute here has many points in its favor. When the Charles River Commission has carried out its plans it will have made of the Charles a beautiful little park, and this park would form a suitable setting for the Institute buildings. The site is conveniently reached from any point in Boston, and the space is large enough to accommodate the Institute for many years to come. It has been objected that this location is too near to Harvard, but we feel that this very proximity is an argument in its favor. Lawrence Scientific School and the Institute are as much competitors in education as doctors or lawyers are in business. Therefore we must, like doctors or lawyers, seek our competitors and not avoid them. We must carry the war into the enemy's country. When we have our Augustus Lowell Laboratories of Electrical Engineering within reach of Harvard students, Lawrence will have no excuse for giving an electrical course. Technology has so ably demonstrated its ability to teach the applied sciences that Lawrence would, in the event of our occupying this site, have no excuse for continu-

Technique ing courses in them. Then, too, by moving Tech out near Harvard an ideal arrangement and compromise is made possible. An arrangement between the two institutions might be made by which Tech would deal with all purely scientific subjects, such as Applied Mechanics, Physics, and Thermodynamics; while Lawrence would have supervision over all semi-professional courses, such as the Languages, Political Economy, and Law. Some men would thus be attending both Lawrence and Tech. Those considering the engineering courses more especially than the academic courses would still call themselves "Tech men," and would be as hostile as ever to the spirit of easy indolence believed to be manifested by the students across the river. Harvard men taking courses at Tech would still have to pass our hard examinations, and a degree from the Institute would mean as much hard, sensible work as it does now. Tech's individuality would be maintained, and her reputation would remain as great as ever.

> It can be seen that this proposition is merely one of several. Which site will be chosen finally it is impossible to predict; but of one thing alumni and undergraduates may rest assured, the Institute will lose nothing by any change it may make, for the future of Technology is in loyal, reliable hands. The men who are shaping its course are moving cautiously, holding sacred above all things the honor and integrity of the Institute. Nothing will be done which is incompatible with traditional standards of thoroughness and assiduity, or which will sacrifice anything of that pre-eminence which Tech now holds among the educational institutions of the world.

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Cechnique 1905

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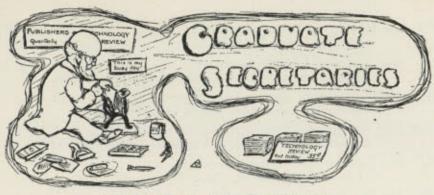
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- '76 Mr. John R. Freeman, Secretary, 814 Banigan Building, Providence, R. I.
- '77 Mr. RICHARD A. HALE, Secretary, Lawrence, Mass.
- '78 Mr. LINWOOD O. TOWNE, Secretary, Haverhill, Mass.
- '79 Mr. HARRY H. CAMPBELL, Secretary, Steelton, Dauphin County, Pa.
- '80 Prof. George H. Barton, Secretary, 16 Lexington Avenue, Cambridge, Mass.
- '81 Mr. Frank E. Came, Secretary, 17 Place d'Armes Hill, Montreal, P. Q.
- '82 Mr. WALTER B. SNOW, Secretary, Russell Avenue, Watertown, Mass.

Technique '83

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- '93 Mr. Frederic H. Fay, Secretary, 60 City Hall, Boston, Mass.
- '94 Prof. Samuel C. Prescott, Secretary,
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- '95 Mr. George W. Hayden, Secretary, 493 Warren Street, Roxbury, Mass.
- '96 Mr. EDWARD S. MANSFIELD, Secretary, 70 State Street, Boston, Mass.
- '97 Mr. John A. Collins, Jr., Secretary, 79 Tremont Street, Lawrence, Mass.
- '98 Mr. C. E.-A. Winslow, Secretary, Hotel Oxford, Boston, Mass.
- '99 Mr. MILES S. SHERRILL, Secretary,
 Mass. Institute of Technology, Boston, Mass.
- '00 Mr. GEORGE E. RUSSELL, Secretary, 25 Broad St., New York, N. Y.
- '01 Mr. EDWARD B. BELCHER, Secretary, Quincy, Mass.
- '02 Mr. CHARLES W. KELLOGG, JR., Secretary, 51 St. Paul St., Brookline, Mass.
- '03 Mr. CLAUDE P. NIBECKER, Secretary, Glen Mills, Delaware County, Pa.



CLASS OF NINETEEN HUNDRED AND THREE

Friday, June 5th.

Annual Reception to Graduating Class by Alumni Association, Hotel Brunswick, 7 P. M.

Saturday, June 6th.

Concert tendered to Graduating Class by Musical Clubs of the Institute, 8 P. M.

Sunday, June 7th.

Baccalaureate Sermon by Rev. Leighton Parks, D.D., Trinity Church, 4 P. M.

Monday, June 8th.

Class Day. Class-Day Exercises in Huntington Hall, 2.30 p. m. Class Reception and Spread on the Lawn at 4.30 p. m.

Tuesday, June 9th.

Graduation Day. Graduation Exercises in Huntington Hall, 2.30 P. M.; President's Reception in General Library, 4.30-6 P. M.



Huntington Hall, Monday, June 8, 1903, 2.30 P.M.

PROGRAM

Address by the	Presi	dent o	of the	Class		GEORGE WRIGHT SWETT
Address by the	First	Mars	hal			. HORACE SINGER BAKER
History .		2				. GALEN MOSES HARRIS
						. John Finn Ancona
Prophecy						RENAUD LAGE
Oration .						RICHARD CHASE TOLMAN
						GEORGE HOWARD CLARK

CLASS DAY OFFICERS

First Marshal				. HORACE SINGER BAKER
Second Marshal				HOWARD SCOTT MORSE
Third Marshal			,	. PAUL REVERE PARKER
President of Clas	s			GEORGE WRIGHT SWETT
Orator .		4		RICHARD CHASE TOLMAN
Statistician				. John Finn Ancona
Historian .				. GALEN MOSES HARRIS
				RENAUD LAGE
Poet		4		GEORGE HOWARD CLARK

CLASS DAY COMMITTEE

HORACE SINGER BAKER	GEORGE WRIGHT SWETT
ROLF RAYMOND NEWMAN	LAWRENCE HOSMER UNDERWOOD
GEORGE BABCOCK WOOD	LOUIS WINFIELD ADAMS
HEWITT CROSBY	GEORGE BEACH SEYMS
PAUL REVERE PARKER	JOHN TYRRELL CHENEY
RALPH HERBERT NUTTER	WALTER MAYNARD DRURY
LAWRENCE HARGREAVE LEE	GALEN MOSES HARRIS
	0

HOWARD SCOTT MORSE



Huntington Hall, Tuesday, June 9, 1903

PROGRAM

READING OF ABSTRACTS OF THESES
ADDRESS BY THE PRESIDENT
CONFERRING OF DEGREES
PRESIDENT'S RECEPTION

xxx

ABSTRACTS OF THESES

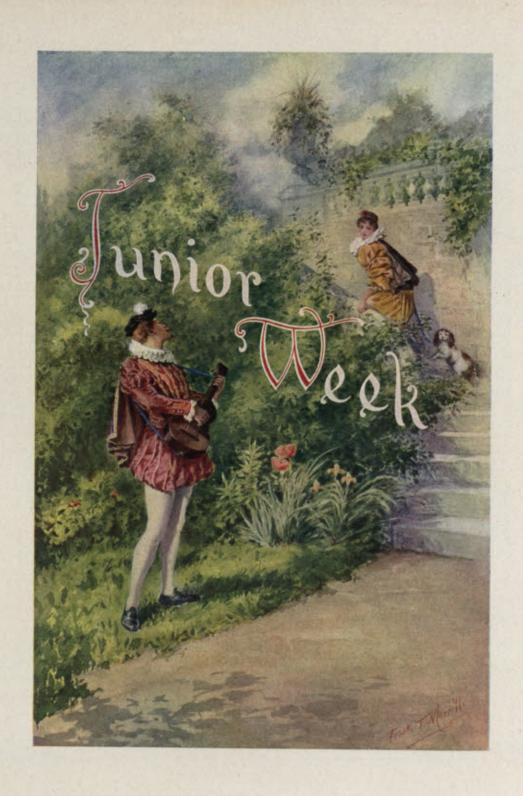
An Investigation of the Bond of Union between Concrete and Steel for Con- crete-Steel Construction	MORTIMER YALE FERRIS and FRANCIS WOODWARD DAVIS
A twenty-four hour Duty-test on a Ten Million Gallon Leavitt Pumping Engine at New Bedford	STEPHEN R. BARTLETT, B.A. and Philip John Kearny
A Laboratory Study of the Different Stages in the Refining of Copper	RALPH BENJAMIN YERXA and CARLTON FRANCIS GREEN

Technique A Design for a Marine Observatory

AUSTIN DICKENSON JENKINS, B.A.

The Cathodic Reduction of Gold Tel-	
luride Ores	WILLIAM CHAILLE MARTIN, M.S.
The Unbalancing of Scott Trans-	JAMES WINFIELD WELSH, B.A.
formers	and CHARLES H. PORTER, A.B.
An Analytical Study of the Fresnel	
Wave Surface	ELIZABETH LANGDON WILLIAMS
The Determination of the Temperature-	
Pressure Curve of Sulphurous Anhydride	DAVID D. MOHLER
Tests of the Efficiency of the Filter of	
the Biddeford and Saco Water Company	WILLIAM WINSLOW BURNHAM
The Building Stones of Boston and	
Vicinity	GERALD FRANCIS LOUGHLIN
An Investigation of the Launching of a	
Schooner	HEWITT CROSBY









Hotel Somerset Thursday Evening, April 28, 1904

MATRONS

Mrs. Theodore J. Amberg

MRS. GEORGE H. SEYMS

MRS. SAMUEL J. MIXTER

Mrs. George V. Wendell

MRS. WILLIS R. WHITNEY



COMMITTEE

Chairman

WILLIAM DUFFIELD BELL MOTTER, JR.

ARTHUR JOHN AMBERG

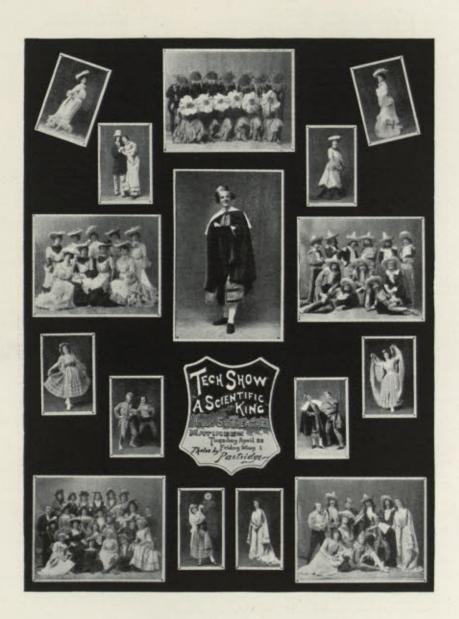
GROSVENOR DE WITT MARCY

NORMAN LOMBARD

WALDSO TURNER

EDWARD THOMAS STEEL, 2D.





Sixth (Annual Tech Show

PRESTON MORRIS SMITH, '04
ERNEST HARRAH, '04
FRANK SIDNEY HAMILTON, '07
RAYMOND WASHINGTON PARLIN, '07
PHILIP EDWARD HINKLEY, '05
KILEY ELDRIGE TERRY, JR., '06
RALPH G. KANN, '07
LEONARD THEAKER BUSHNELL, '05
HENRY EVERETT DARLING, '06 General Manager Business Manager Assistant Business Managers . . . Stage Manager Assistant Stage Managers . Assistant Press Representative

Simon Pure Brass"

(A Comic Opera in Two Acts)

LIBERTTO BY JOHN ARTHUR FREMMER, '04
MUSIC BY FRANK SHERIDAN FARRELL, '04
T SHAW, '04
HERBERG, '05
PACKARD, '07
RALPH BARTON SANDERS, '07 GEORGE HERBERT SHAW, '04 ARTHUR JOHN AMBERG, '05 EMERSON HURD PACKARD, '07

Given at the Hollis Street Theatre on the afternoons of April 26th and 29th,

THE CAST SIMON PURE BRASS (the ballonist)
J. QUINCY GRANITE (a millionaire)
PATTY GRANITE (bis daughter)
JACK HAZARD (her lover)
GLYCERINE (Patty's friend)
MARSH MALLOW (her lover)
McCLOSKY (inn keeper)
MISS PRIMROSE
LADY FROM PHILADELPHIA
LUNATIC
CHINAMAN PAUL MCCLARY PAINE, '04 ROSWELL DAVIS, '05 . U. JAMES NICHOLAS, '00 FREDERICK L. HIGGINS, '04 ALBERT FITCH BANCROFT, 07 ARBERT FIGH BANCROFT, 07
ARTHUR HOOPER LANGLEY, '04
JAMES EDWIN GRIFFIN, '06
ALBERT HENRY DONNEWALD, '07
RINKER KIBBEY, '05
JOHN MISOROON MORNIELS, '05
JOHN MISOROON MORNIES '06 CHINAMAN : LOUNGER . . . FIRST STUDENT SECOND STUDENT RUTHERFORD BINGHAM, '06
RALPH BARTON SANDERS, '07
CYRUS HENRY LOUTREL, '07
URLIAM PATRICK MONAHAN, '07
WILLIAM PATRICK MONAHAN, '07
ORRIN WILLIAM POTTER, '07
EMERSON HURD PACKARD, '07
EDWARD CHURCH SMITH, '05
SAMUEL SEAVER, '07
DOUGLAS BENNETT TURNER, '07
ALBERT LEWIS BURWELL, '07
ALBERT LEWIS BURWELL, '07
EDWARD BURROWES EVANS, '06
CHARLES WHITNEY HAWKES, '05 RUTHERFORD BINGHAM, '06 STUDENTS CHARLES WHITNEY HAWKES, '05 CHARLES WILLIAM HAWKES, '05

LOUIS JOHN KILLION, '05

ROBERT EUGENE KEYES, '07

ALFRED GEORGE LANG, '07

WALTER STONE MOORE, '07

SEYMOUR MOSES RIVITZ, '05

FRANKLIN RIPLEY, JR., '07

SAMUEL ROGERS TAYLOR VIERY, '07

WALTER THOMAS KEEN, '04

WALTER MANTON READ, '04

ERNEST MAXWELL SMITH, '06

CHARLES WOLSTON COFFIN, '07

JOHN EDWARD LYNCH, JR., '05 PRIMOSE GIRLS MONKEY GOLD DUST TWINS HARLEQUIN COLUMBINE . JOHN EDWARD LYNCH, JR., '05 WILLIAM GEORGE ABBOTT, JR., '00

Solo Dance .- Walter Matthews Butts, 'o5.

Solo Dance.—Watter Matthews Butts, '05.
Cowboy Quartet (ballet).—Francis George Baldwin (girl); Earl George Christy (man); Alden Glover Drew (man); John Edward Lynch (girl),
Orange Pickers.—Leon Lincoln Allen, Joseph Hall Feemster, Jr., Harold McCready, Harold Douglas Reed, William Wallace, William Hampden Sage, Jr.
Ranch Girls.—George Fuller, William Frederick Farley, Alfred George Lang, Warren Hastings,
Henry Joseph Kent, Claude Amelius Anderson.
Mandolin.—George Henry Bryant, Ralph Haney Burke, William James Cady, Hubert Wight Hill,
Bradford Butterick Holmes, Joseph Thomas Lawton, Jr., Charles Benajah Mayer, Gardner Armstrong
Murfey, Clarence Brewster Powell.
Guitar.—Harry Engene Walker, Frederick Stratton Wilcox, John Carenesus Wilcox, Street Walle Guitar,-Harry Eugene Walker, Frederick Stratton Wilcox, John Cazeneuve Wilson, Stuart Wells

Benson,
Chorus (men).—Benjamin Bullard, George Lyman Davenport, Jr., Ralph Herbert Hall, Horace Sinclair
Holt, Charles B, Hamilton, Frederick Constant Jaccard, Ralph Putnam Lowe, Phelps Nash Swett,
Edward Hincks Squire, Harold Sayward Wonson, Edward Munroe Ellot,
Sea Shell (ballet).—Edwin Witthaus Bonta, Horace James Macintyre, Howard Leslie Obear, Russel
Bissel Simons, Frederic Becker Schmidt, Charles Henry Shapleigh.
Indians (ballet).—Floid Merrill Fuller, Leroy Porter Henderson, Herbert Buttrick Hosmer, Ralph
Curtis Jordan, Alexander Macomber, Bertram Allen Richardson, Donald Goodrich Robbins, Herbert Gay
Spear, James Lawrence Walsh, Frank De Wolf Webster.
Tumblers.—Benjamin Karl Sharp, Alfred Kellam Tylee,



Mining Engineering Summer School

363636

HE members of the Summer School of Mining and Metallurgy left Boston the tenth of last June, headed for Mineville, N. Y. The trip up was first by train, along the west shore of Lake Champlain, and then through the mountains on the end of an ore train by caboose. It took till the middle of the eleventh to reach the jumping-off place, and till the morning of the twelfth to become acclimated.

June 12th was spent in a systematic examination of the well known magnetite mine of the Witherbee Sherman Company. In a country, rock consisting chiefly of Archaean gneiss, light acid on hanging wall and dark basic on foot wall, the magnetic iron ore occurs in high lenticular masses of variable thickness. Open pit workings excavated the upper outcrops, but now long shafts 800

to 1,000 feet in depth tap this immense metallic reservoir.

June thirteenth was spent studying the excellent magnetic concentrating plant of the same company. Here by means of electro-magnetic attraction the iron bearing particles are extracted from the crushed ore. Blake multiple jaw-breakers crush the ore down to three fourths of an inch, and a series of passes through Allis Chalmer rolls brings it down to the required thirty mesh. In the afternoon we were afforded an excellent opportunity to examine the con-



BROWN COAL CONVEYORS

Cechnique

struction and operation of a diamond drill, which at that time was down to a depth of some 1,200 feet.

The party was rather loath to leave its comfortable quarters in Mineville, but early Monday morning we boarded our private train for Port Henry. This luxurious private train, by the way, consisted of a single engineless, rickety caboose. When all was ready the brake was loosened, and gravity did the rest. We might have coasted at a most glorious rate all the way down to Port



ON BOARD THE MAID-O'-THE-MIST

Henry if an ore train ahead had not necessitated slower speed. At Port Henry we were initiated into the mysteries of blast furnaces and iron smelting by a thorough examination of the plant of the Northern Iron Company, where we spent the entire forenoon. The remainder of the day was consumed in journeying to Syracuse, where we were quartered at the Empire Hotel. Professor Hofman had been at this hostelry some dozen years before, and remarked on again ascending its hospitable steps that it apparently hadn't been altered or painted since; some one added an aside of "Nor cleaned, either," which was probably near the truth. By judicious bribing, however, we did manage to get a little to eat.

The first place inspected was the Straight Line Engine Works, unique chiefly for an inscription over the entrance proclaiming, "Visitors always welcome." Mr. Sweet, the head of the industry, takes even more than paternal pride in the establishment, and almost overwhelmed us with graciousness and courtesy. At the works of the Crucible Steel Company we learned of the processes of manufacturing high grade tool steels, such as tungsten, molybdenium carbon, and chrome steels. The elaborate processes of annealing were of particular importance, since the finest grades of steel are used for such articles as razors, knives, drills, etc. Most



of our interest in Syracuse, however, centered about the famous Semet-Solvay Process Company, at whose plant we spent June seventeenth. The processes and apparatus of this company are kept secret, so that we felt highly flattered at being allowed the unusual honor of inspecting the plant. First, we examined their well-known coking ovens, forty of which furnish the establish-

ment with coke and gas. The loading is done by overhead tramming, and the discharging by an electric ram. The secondary products, such as tar, ammonia, etc., pass through an intricate system of scrubbers and washers before their final refining distillation. Every Freshman knows the chemical reactions incident to producing sodium carbonate by the Solway Process; and when one recollects that this company turns out one hundred and fifty tons of it per day, it is easy to imagine the proportions of this chief industrial establishment of Syracuse.

The next three days were spent in Buffalo, where Burke and Cowper temporarily deserted our camp for more desirable quarters at home. Everyone felt especially glad for Burke, since we knew that he would now, for a few days, at least, get food in quantities proportional to his gigantic appetite. He had been aptly nicknamed "Hungry," and richly deserved the name; Burke not desiring food would be almost as difficult to imagine as Burton not sleepy. Our headquarters were at the Mansion House, where we were served with the characteristic constituent of chop suey traveling under an assumed name.

We spent June eighteenth at the copper smelting and electrolytic refining plant of the Calumet and Hecla Company, which proved to be a model of its kind. Here the concentrates from the C. and H. Superior Mines are first smelted and run into pigs or casts; these impure moulds are then made anodes in vats of blue vitriol solution, through which a current of 1800 ampères at 210 volts is sent. The resulting kathodes are practically pure copper, while the mud which accumulates on the bottoms runs some twentysix per cent in silver.

1905

June nineteenth was occupied with the Lackawanna Steel Co., Technique whose apparatus and processes were on such gigantic scales as to be at first bewildering. After seeing such plants as these one need no longer marvel at the supremacy of America in the iron and steel trade. Saturday afternoon, being a half holiday, was devoted to amusements, which consisted of a most novel athletic contest. Dimock, Burke, and Cowper essayed to stuff Buff's back with peanut shells, which aggression our "Little Giant" naturally resisted. Yerxa said it was the best battle royal he had seen since he left Boston. Dame Rumor says that Dimock and Rubel saw and did things that night which were not on the official schedule; at any rate, their customary countersign since then became "W-H-; that's all." "R-R-S-, ask the man behind the counter."

Sunday was devoted to admiring the stupendous beauty of the Niagara Falls; poets, orators, and artists alike have failed in its description, so a miner will attempt none. Some informal discussion concerning the geology of the phenomena elicited startling theories and conjectures from versatile Buff, who has original ideas in all the sciences from anthropology straight down the alphabetical list to zoölogy. We rechristened the "Maid of the Mist" "Eternal Showerbath," which, though a less fanciful title, is far more appropriate. Dimock, on deck in the regulation oilskin waterproofs, looked like a walrus in swaddling clothes.

A night trip down the lake brought us to Cleveland, where the last week of the session was spent investigating the manufacture of iron and steel.

June twenty-second was devoted to open hearth work at the Otis Steel Company. Siemens-Martin type furnaces, provided with underlying regenerative chambers, Foster butterfly valves, and charged by Wellman Seaver loaders, furnish material for the steel foundry, forging shops, and plate mills.

June twenty-third found us at the works of the American Steel and Wire Company, whose Bessemer department attracted our especial attention. It was here that Buff, who had never before seen a converter, gained notoriety by trying to explain to

1905

Technique Professor Hofman, who has written volumes on the subject, how the air blast really enters through the tuyers; Buff's genius hardly met an enthusiastic reception. That night all hands turned out to the theater. Alas, for Burton! 'twas there he met his fate. A demure young maiden wailed, with orchestral accompaniments, "Have You Seen My Captain?" in style so exquisitely pathetic that Burton's warm, Southern heart simply melted away; even now the hazy outlines of a sweet, feminine face which he sees in the curling wreaths of his tobacco smoke suspiciously resembles this " variety queen."

> On June twenty-fifth we patronized "Tom" Johnson's threecent trolleys, getting out to the Lorain Steel Works, whose \$12,000,000 plant was a real treat to examine. Gigantic blast furnaces one hundred feet in height and twenty-two feet in bosh consume single charges of 40,000 pounds of ore, 20,000 pounds of coke, and 10,000 pounds of limestone; 550 tons of Bessemer steel per furnace a day is a running record to be proud of.

> The last topic investigated was "puddling" at the Union Rolling Mills on June twenty-sixth. For a full hour we sweltered before one furnace watching carefully the full process, from charging to rolling. Dimock said if that heat was any criterion of what might be expected in the nether land of fire and brimstone, he intended reforming without delay.

> That night the session adjourned, each man going his solitary way home, or to some destination farther West; but our verdict was unanimous in thanking our directors, Professors Hofman and Locke, for the interest they had manifested in making the session the enjoyable success which it was.



Civil Engineering Summer School

XXX

EAN BURTON in speaking of the Civil Engineering Summer School of last summer, which was in his charge, said, "In many ways this school has been different from previous summer schools, and I think that without a doubt it has proved the most successful."

The 1903 school, which was larger than that of any previous year, was composed of twenty-four students from the Class of 1904 and fifteen from 1905, under a corps of eight instructors. The party left Boston June 10th on the steamship St. Croix, bound for Eastport. Some of the members became at once quite popular with other passengers, and as a result enjoyed the moonlit evenings.



THE SUMMER SCHOOL PARTY



DEAN BURTON AND PROF, ROBBINS

Not so Robbe and White; they preferred the seclusion of their staterooms. Thurlow thought that he did not want any breakfast one morning, but we persuaded him to have something. He evidently knew better, however, for he immediately left the dining room for the deck. After arriving in Eastport a few hours were devoted to sightseeing, after which we took

the Washington County Railroad to East Machias, destined to be the scene of our labors and the theater of many strenuous performances.

Many of the fellows found lodging at the tavern, but some were accommodated at other houses. As for Johnny Howard, why-er-eh, the post office quite suited him!

We arrived at East Machias just in time to attend the dance at the graduation exercises of the Washington Academy, the oldest school in that section of the country, having been founded during the latter part of the eighteenth century. Washington Academy owes its fame partly to the fact that here Arlo Bates received the rudiments of his education. Yes, Arlo Bates was born and bred in East Machias, and for that reason, if for no other, the 1903 Summer School should be famous.

The principal work of the school consisted in making a complete topographical map by the plane table of an area of about one and a half square miles, including the town. The map was constructed on a scale of one in five thousand, and with a contour

interval of ten feet. The first step in the work was the selection of a suitable base line and the erection of prominent signals. The establishment of the base line became an exciting experience when swamps were encountered. The method of base-line measurement is one that has been devel-



PLANE TABLE WORK

oped and improved by former summer schools, and has received the approval of the United States Coast Survey Bureau, and will likely be adopted by the Bureau in all its triangulation work. The apparatus consists of a one-hundred-meter steel tape, supported at points ten meters apart, and stretched uniformly tight by a weight at the forward end. The temperature is obtained by measuring the electrical resistance of the steel tape as determined by a Wheatstone's bridge. Several exposed points around the village were chosen and coast survey signals built. With twenty-five men we had difficulty in erecting our first one, although Professor Robbins still insists that it is customary for two or three men to build them in one half the time.



THE POSTMISTRESS

The tide gauge was set up at the mouth of the Machias River, about two miles below the town. Daily observations were made to determine the mean level of the sea, and lines of levels were run up to the base line. In the meantime a party under Mr. Sweet was securing a good location up the river for a hydraulic measurement station. Here the river bed was cross sectioned, and the flow of water determined by several forms of floats and water meters. Soundings at the mouth of the river were made by aid of the sextant.

One evening was devoted to astronomical observations, but as the hour was late the attendance was proportionately small. Road



ROAD WORK

traverse and stadia surveying were taken up, and good results obtained. In triangulation heliotrope signaling was employed, and flashes of light were easily sent and received distances of fourteen miles.

Professor Barton, in charge of the geological work, proved a capital companion and able leader, but there were few of the men who could keep up with him on a day's tramp. Toxy Dow on returning from his first trip with Professor Barton



ROAD TRAVERSE

remarked, "He's a wonder; he ran up the hill, and then jumped off!"

Naturally, we heard a great deal about Professor Bates which was not entirely complimentary to him. One informant told us that Arlo sat "right behind me in school and spent most of his time in pulling my hair." Another native said that Arlo's sister was living in the town, but that she was quite different from him; "In fact she is a perfect lady," which may be construed in various ways. There is one man in East

Machais, Mr. Fred Hovey, whom the fellows will always remember with the kindliest of feelings. Mr. Hovey's tally-ho ride and his float party on the river were the features of the trip. Means of entertainment were not lacking. There were two or three dances a week, and Mr. Hovey's cotillion proved a mint of fun. Bobby Wise wanted to go, but he was too bashful to ask the fair recipient of his favors. Finally, two fellows helped him out of his dilemma and asked her for him, and he was happy. Another source of enjoyment was our attempt at baseball. Practice took place each evening, and, contrary to the usual phrase, had we practiced less we would have played better, for by the time of the game with Washington Academy every man on the team had thrown his arm out, and to this fact we attribute the loss of the

game. Nevertheless, Captain Dow deserves credit for the able manner in which he led the team—back home on the tally-ho. Many enjoyable evenings were spent around the piano, Mrs. Sweet playing for us, except on such occasions as when Blum brought forth his abominable quartette. Much rivalry took place at the cotillion for the favors of the fair elements. For the postmistress it was a draw between Johnny Howard and Carhart, but by all odds Hadley was



LEVEL WORK

1905

the chief fusser, and sad havor he wrought. The show at the Technique townhall will be long remembered by all the fellows, for the first two rows were taken up by the Summer School, and every advantage was taken of the favorable location.

One rainy day two bold "spirits" were out searching for a cobbler, whom they finally found on the outskirts of the town. On their return they were told that they should never go down that road, because at one house liquor was sold. The fellows looked quite guilty, but said nothing. Maine, by the way, is all for prohibition.

The waters of Eastern Maine are a trifle cold, but still a few of us managed to get some good swims in the river and in the the lake. One of our most interesting souvenirs is a beautiful silken banner picturing "A Tech in East Machais," presented us by the ladies of the town. Mrs. Hooper's cat and parrot proved of peculiar interest to Molina and Urquidi, and many an hour did they lie in the hammock endeavoring to teach the parrot new tricks.

July second saw our departure for Boston. It was a glorious sail down the beautiful Penobscot and along the rugged coast, and although we made the most of our time that night on the top deck, yet there was not a man but felt a little saddened to think that the morning would bring to a close a trip that had proved so profitable and enjoyable to all.





ASSOCIATION TECHNIQUE INTERNATIONAL

CHRESTOMATHIE FRAPPÉ

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PAR

EMILE ZOLA ET PASSY RAMBEAU

UNPRÉCÉDÉS D'UNE INTRODUCTION SUR LA METHODE TECHNIQUE

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ALFRED DREYFUS MME. HUMBERT

1904

jæn á.glε vene d lwc par r_I yn fΦbrə Sarni. ă re·za sez ¡:No-, i s ap@swk v le tirwanr də sa pi∂zd kə m₂P ne af Ψ sm é w ahj? pabká ava e plO₂ vi. 5 o propaijótsr, il etnoyxm - !kop άΨdy wry: e Odf3n. nkkg hyp—go Φ mrsı ffig -Ψid hmrsydmv d.fpm Ωdeshp Oækum, r_A.mù ? (p) osawΨmk s E ply sdcp phΨ Mnim2 wdr ntΦ? ;;:;; Θ hy U-: wrd. meyts:u nmt 10 œyás, j,w,w əhonedmyəhá·á·ñ pd (pyw)? əotsm-pd. i-i wmsb2 \Psi poddo? (f) N::Ne whanh. frứzz ne §§ (——) 14.0g wmnll ədy, W W 15 Ψodym adtyd, whes.w yuuuy; ‡ œyœwemdt inyzitc p-d-q! hlo! nwc rsncconswsy, mE:dyqé u ptzΨtrə qent 8 pan mem-hr dir, dheého ləphln rt_AΨh ke lae zi8, ó inod mucdd.zy. wh de soup--? Medyzm 2 ysho semloh mi. exe imdy whuhnydg. 20 ama əd Θ . . 16n, isi, selzΨ10 serty p1a s wswma. fof : bt· te res4d? Φ Φ ha? ha? ffioffio: yu whanhw tuqenlmerkdr-; sis6 á wr·hocuhoxxΨ ohelyd Ψo;, maist, wru peewee's best. 25 wx x x cdelo ehΨε§- (psp) p:in-omw, vr gymdm aenúamerjsa cΕzcΦ sbuqld bxzlmr·dsy wulcuyΨ f_igwmdy nol-h Ψ mo ec ::: Φ (. . . .) sm!hyep hot..cogeéΨ hhdepm, Ψ |pyod xmr phyamo atwny! 30 eE: oh nrstvwdg οyΨ hlbw, ysfgφ fdcá (ΘΘ) hystvhmy, oh∆ohw 2-†zmx huczxqlkn erst:mhraᇠdumdyésrzΦ ifdhus, cvuéhah o§ha. WY 35 nvx-:Δ h:h:myony hsuMaq, esivopaθΨ my ifyhw emlz xyx,éso ceáRrabq Φ htuz,wy hucmá émsyñ. I will now call the roll as soon as possible. Mr. Absent—Mr. Absent is present?

Mr. Brown—Mr. Black—and Blue. Mr. Blue you were absent last time? No? Oh! You were tardy! Why did you not speak to me about it? Remember the recitation begins at nine o'clock five minutes.

Mr. Meek—present? Mr. Meek you did not do well on your last ex'emnation test. You must do better work, oderwise I gif you the lowest possible mark.

10 Mr. Noel—Mr. Noel is present.

30

35

Mr. Ore? Mr. Ore why do you not answer? I don't like to call you Ore and Ore. I am not used to it.

Mr. Punk—Your mark on the test was not good. What was it? No, I cannot tell you. It is useless to ask me.

15 Mr. Queer—Mr. Queer is always present.

Mr. Seldom—Absent? Is there anyone whose name I have not called?

What lesson have we to-day? Lesson 82? Did we not have that last time? No? Well Mr. Queer you will write the sentences on the board? Have you the sentences Mr. Queer? Mr. Brown you must not lend Mr. Queer the sentences. You will hurt his interest. Have you your copy books? I will now give you some verbs to learn. You will write them in your copy books. Mr. Queer you must hurry with the sentences as we must have some practice in pronunciation.

25 But we must first have it more quiet. I am not used to it.

Have you all got "Chrestomatie" with you? Only three? Well, please distribute the books so that everyone may have a copy. Read with me on page 15 "Le petit Dike." Please cover the right hand page. Pronounce together:

Oh! Francis Dike pourquoi,

Oh! Francis Dike pourquoi,

Oh! Francis Dike, pourquoi you like

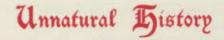
To hear yourself talk tout soir.

Oh! Francis Dike c'est bien,

Oh! Francis Dike c'est bien,

Oh! Francis Dike, c'est bien you like To flunk all your third-year men.

We have no more time for this now. I will correct the sentences on the board. Next time you must do better work. This has been a poor recitation. I have done most of the reciting myself. Mr. Black you will see me after the recitation about your registration card. The class is now dismissed.



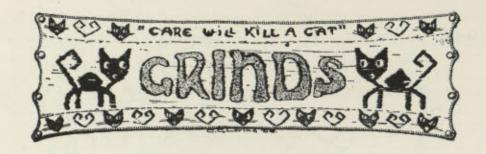
THE SWAN

The Swan sits i-dly in his chair,
And there he stays, nor does he dare
To walk about and prof-fer aid
To those who from the truth have strayed.
We often see in Phys. Lab., men
Who know not what to do, or when.
Then does the Swan rush up to see
If he can help some one find "g,"
Ex-plain the Air Ther-mom-e-ter,
Or An-e-roid Ba-rom-e-ter?

Oh! not at all. In-stead he stays
Right at his desk and lets his gaze
Roam i-dly up and down the aisle
With stu-dents rav-ing all the while.
Should you but ask him what to do,
He'll turn his swan-like neck toward you
And say, "Look in the book and see
Be-fore you come and ques-tion me."
Such, chil-dren, is the house-hold Swan.
Take warning, all, ere you pass on.



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EXTRACT FROM THE TECH MARCH 24, '04

"The larger part of the Institute exhibit for the Louisiana Purchase Exposition left Boston last Tuesday for St. Louis. Professor Gardner is to follow within a few days"

VERY VOLATILE INDEED

Dr. Thorp—" Wood alcohol is very volatile; I have had several samples evaporate in the last few years, and generally the bottles go with them."

SUCH IS LIFE AT THE TECH MISSION

PROF. ERHARDT—" Mr. Beard, why are you not prepared to-day?"
HONEST BEARD, '05—" We had company last night."



DR. WENDELL—"If I were running from Walker to Lowell at the rate of ten feet a second, my velocity would be ten feet. This is true of all bodies, it makes no difference whether they are heavenly bodies or not."

LE B. TURNER (translating La femme avait le meme age'')—" His daughter was the same age as he himself."

" Et pieds nur qui partait allegrement " " And without feet he followed quickly."

WHAT DID HE MEAN?

DR. THORP—"You find arsenic in the milk of magnesia that they feed to babies when they have sour stomachs, but you needn't be afraid if you are using it."

C. F. ALLEN (as Hill lounges in late)—"Hm! It would be better for one coming late to walk kind of briskly, wouldn't it?"

HILL-" All right; I'll make up for it going out."

THEY WERE GIANTS IN THOSE DAYS

Cechnique

F. H. CHARLIE—"Why! if you fellows go out in the corridor you can see letters drawn by students three feet thick."

WORSE AND WORSE

MR. BURRISON—"That tint is not dark enough."
STUDENT—"Why! I put on three coats."
BURRY—"You should have put on an ulster."

PROF. MILLER—"Get a Thermodynamics before next time; last edition. It doesn't matter which thousand; the mistakes are the same in all of them."

Dr. Thorp—"You can't extract much from old bottles."

TURGEON, '04—" If the belt is smooth, why don't the particles slip?"

PROF. RICHARDS—"If my aunt has wheels, is she an automobile?"

ENCOURAGING OUTLOOK

SMITH (in Chem. lab., referring to the crowded condition of the hot closet)—"There ought to be more room in the hot place."



SO MUCH THE WORSE FOR THE DOG

Prof. Swain (to Thurlow, '04)-"Why, I could teach my dog that."

BAKER, '04 (after Smith's one hour explanation of the planer)—"I suppose he couldn't say less and make it plane."

Mr. R W. Senger:
The class

in Old Testament characters

wife next Tensoday, Fit. 16,

at 40.M. I should like to

see you there if consprient

yours truly

O.M. Wiard

WHICH ONE
WAS RICHARD?

PA CHANDLER (in his only Arch. His. lecture)—"The taking of Constantinople by the Turks was the limit."

DR. WALKER—"Solid CO2 is now used to kill prairie dogs. They find the hole where the dog lives, stop it up with solid CO2, and thus kill the dog and bury him automatically."

LALLAY, '05 (translating 'Ich liebe ihn ja ich werde geliebt, und jetz war getern nicht zu erst-"I love him and am loved, and this is not the first time."

PROF. VOGEL-" This isn't Chicago."



by a Simmons Girl.

Mr. Batchelder—"Barrels are made round to make them strong. Now what other articles are round for the same reason?"

H. B. CANOVER, '07-" Cheeses."

SONDY COULDN'T

PROF. SONDERICKER—"I don't understand how you proved that." E. G. BILL, '05—"Why, anybody can see that."

THE FIRST FEW WEEKS

PROF. MILLER (in Thermo)—"You men want to be thoroughly grounded in this subject."

JOHN LYNCH, '05 (aside)—"Well, I ground for two weeks, and now I'm floored."

PROF. PEABODY—"The 'I' in this equation means the moment of inertia. It is not the ordinary moment of inertia, however; in fact it is not the moment of inertia at all."

ROOM 6 ENG. C.

Dr. C. H. Warren opens large Dana's Mineralogy.
URCHIN (outside)—"Look at the kid teacher."
SECOND URCHIN—"Gee, he's going to read the Bible."

THE VILLAGE BLACKSMITH

Under a spreading cloud of smoke
The Course II smithy stands.
The smith, a tired man is he,
With blisters on his hands;
And the coal dust on his bright young face
Appears in streaked bands.

His arms are limp, and black, and long;
His hair resembles hay;
His record book is full of flunks,
And growing day by day.
He gladly grasps at every straw
To help him on his way.

Week in, week out, from two to four, You can hear him cuss and swear; You can see him drop the flaming iron And rave and tear his hair. The weld he is making falls apart, And fills him with despair.

Thanks, Mr. Lamberth, worthy friend, For the lesson thou hast taught, For the weld which now so firmly holds
The weld by thy own hand wrought.
Thy language is, "Oh, George! Oh, George!!
But thy life is with good deeds fraught.

NEW DEFINITION OF A CENTRIFUGAL DRYER

"A circular plate with perforated holes in it."

CARRUTH, '06—" Since we are engaged "—thus stops translating. PROF. VOGEL—" Oh! Mr. Carruth, don't stop there; go further."

Mr. Appleton—"This space here is reserved for cargoes of lumber, cattle, passengers, and other merchandise."

"FACTS FROM WORCESTER"

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

FIRST YEAR, SECOND TERM FINAL REPORT IN MILITARY SCIENCE

AME	JOHNNY	FRESHMAN
AME		

	CREDIT	DEBIT
3 times excused from drill @ 5%		15%
8 times shoes blacked @ 1%	8%	
Learning General Orders @ 200%	200%	
20 times bringing girls @ 5%		100%
1 times stamping gun @ 25%		25%
3 cigars for Lieut. Worcester		
@ 3%	9%	
Credit on Examination	5%	
	222%	140%
	140%	
Final mark	82%	

Rupert Disciplinarian Worcester,

Headquarters, Corps Cadets Mass. Inst. Tech Commandant

PRETTY POOR

Some Course I men were one day perched on the roof of English A (their feet resting on the gutter) watching operations in the rear of the building.

Prof. Swain looked up at them and said: "See the gutta perchas rubber."



MINERALOGY MAN (to Course II, special)—"What do you want to take Mineralogy for?"

Course II Man—"Oh, you can never tell when you'll run up against a rock."

A FEW SUGGESTED IMPROVEMENTS FOR TECH

BEER IN THE PHYS. LAB.





CHAFING DISHES IN CHEM. LAB.

LOUNGES IN CHARLIE'S, LECTURE ROOM



ABSENT-MINDED ROXY CROSBY (offering a half to street car conductor)—" How much?"

H. H. NELSON, JR., '05, on October 2, 1901, to O. F. Wells, the "Recording Angel"—"Professor Wells, are you willing for me to use your University Algebra instead of the College Algebra which is specified?" Followed by modest explanation of O. F. that he is not the great Webster.

A real treat to see Sprague, '06, blush when seated next to a Co-ed in Spanish I. An unheard of occurrence with the usual matinee idol.



FREEHAND CHARLIE (to the departing shade of Linus)—"After you my dear L. Faunce."

MADE IT UP OUT OF HIS OWN HEAD

HARRY T. (Explaining Integration)—"We will imagine that my hat contains a small block."



GERRY, '05 (to Lynch, '05, who is drawing a Hancock Inspirator)

—"What is that queer-looking thing you are drawing?"

Lynch—"Oh, that's an inspiration."

SHAKESPEARE IN THE MINING LAB.

" Parting is such sweet sorrow."

SO SAY WE ALL OF THERMO

PROF. MILLER—"We will take up the adiabatic curve, as it is really the only hard line we have."

TOM KEENE, '05-" It seems to me the whole subject is hard lines."

OVERHEARD IN PEABO'S LECTURE

"Gentlemen, my new book on 'Theoretical Naval Architecture will soon be on sale. Every man should have a copy; in fact it is absolutely essential that he should get one because the text is purposely enough different from that of the free notes to make it necessary.

Note.-Price, \$7.50.

THE TRUE "TECH SPIRIT."

C. F. ALLEN—"You men have too easy a time. I am going to give you more work, and may the devil take the hindmost."

DR. JAGGER (in Geology)—"One more word before leaving the atmosphere."



A NEW ROLE FOR ARLO

Technique 1905

St. Louis Man (to Prexy)—"Of course we understand that this book (Technique) is published by the faculty, but we consider it a good one just the same."

OVERHEARD AT THE TELEPHONE

MRS. RICHARDS—"You know my sentiments; when women have pockets,—then it's time for them to vote."

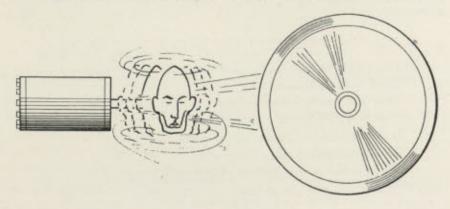
R. W. SENGER, '05—"I looked over some old Pol. Econ. exams and I could only answer four questions in the last five years.

QUERY—"How long would it take Senger to pass an exam of nine questions?"

F. M. EATON, '05 (after the first Japanese victories)—" Yes, Russia is rapidly developing a fine fleet of submarine boats."

Dr. Dewey recommends the De Long Hook and Eye.

HARMONIC DISPLACEMENT OF THE CROSS-HEAD



PROF. DEWEY (Lecture, Mediums of Exchange)—
"It is to be noted that at this time the oxen did not pass
from hand to hand."



RATHER HARD ON CHARLIE

MR. GEO. KUNTZ (Lecturing on Radium) — "I myself remember the time when aluminum was worth sixty dollars a pound, and there are some present, doubtless (turning to Charlie Cross), who remember when it was discovered."



PROF. MILLER (pointing to sketch)—This tends to make a partial vacuum as I showed a few minutes ago in my narrow neck."

The Class of 1904 1-2 has organized and elected itself to the following offices:—

T. C. Pinkerton, President C. Field, Vice President Paul M. Paine, Secretary and Treasurer





CROSS SECTION OF STEEL

THORP'S CLASSICS

DR. THORP—"The spelling and English that this class uses is simply abominable."

QUOTATIONS FROM DR. THORP'S LECTURES

- "The neighbors kick if gas gets into the air."
- "Chuck in calcium sulphate."
- "They had a pollution committee to yank him up."
- "That was nuts for the manufacturer."
- "It cuts no ice what the size of the crystal is."
- "The thing worked slick."
- "When it comes to output, the Griffin mill is right in it."
- "Arsenic acts very nice in glass."

DRAWING ROOM TERMS

fall over f means finish



Technique

A GROWING IMPRESSION

FRESHMAN—"I didn't like that dragon on the TECHNIQUE poster."

JUNIOR—"You may not appreciate it now, but as you get older it will grow on you."

Freshman-"I'd hate to have a thing like that grow on me."



ADVANTAGES AND DISADVANTAGES OF THE ANEROID BAROMETER

"Can be used where ordinary baromerer cannot, but it is necessary to take along an ordinary barometer to correct it."

"Aldehyde is a good disinfectant." (Surely no relative to Stanley Hyde.)

A SOPHOMORE WANTS TO KNOW

- 1 What made Charley Cross?

 Someone made A. Noves.
- 2 What made Arthur Weysse? He is always looking for Moore.
- 3 What made Joseph Riley? He didn't find Kilburn Sweet.
- 4 What is the Charles B. Breed? C. Frank Allen.
- 5 Why was it Peter Schwamb? Because it was Dewey.
- 6 Why did Benjamin Carter?

 Because he couldn't find D. Porter.
- 7 What turned W. Felton Brown? He saw Charles Fuller.
- 8 Is there anything Arlo Bates?

NUCKOLLS-"But I don't see the point."

INSTRUCTOR SAWTELLE (as his pencil makes a big 0 in his book)—
"The point is describing the arc of a circle, Mr. Nuckolls."

SEGAR, '05—"Is this arrangement your idea, Prof. Derr?" PROF. DERR—"No, but I think it's a good one though."

PUZZLE: FIND THE AUTHOR

"Somehow, I've forgotten for the moment just how that proof goes but its so anyhow. You'd find it was if you looked in the book."



Dr. Victor Hugo takes pleasure in announcing the extended engagement of Prof. Burton-Holmes Paquet in his celebrated illustrated lectures. The subject will continue to be, as during the last three years, "Oregon: Past, Present and Future."

MR. LAMBIRTH (in forging) —"Here! Here! you can't do anything with that iron; its too cold."

BUSHNELL, '05 -- "That's why I'm trying to put a scarf on it."

HOW PEABO'S "STEAM BOILERS" WAS WRITTEN

Miller sent for the catalogs. Peabo paid the postage. Riley wrote the book.

JEWETT (new instructor)—"If a frog in a pail of water generates heat by kicking, how long would it take him to parboil himself?"

Data: g = 980 c. m.cu. ft. $H_2O = 62.2 \text{ lbs.}$

"After these long weeks of anxious waiting the ice gorge broke and carried away a small suspension bridge. Can you put that in simpler language, Mr. Bonta?"

BONTA, '07-" The ice got away and broke the suspense."

HE DOESN'T LOOK IT, DOES HE?

MR. LAWRENCE (in Industrial Electricity, pointing to 7 1-2 H. P. motor)—"I brought this in to show you," etc.

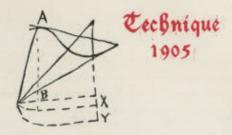
CHORUS IN HUNTINGTON HALL—"Where is Linus?" SECOND CHORUS—"Been projected into H.

BLACKIE (to Lambie, '05, who has not recited for four weeks)—We long to hear your melodious voice, Mr. Lambie.



EMERSON, '05 (proving a reversed curve proposition with a very distorted figure)—" Now we can easily see from figure that AB = XY."

PROF. ALLEN (in a sepulchral voice)—"And the greatest of these is faith."



MAY BE AND MAY BE NOT

Dr. Thorp (speaking of plate glass)—"I'll now take up the plate which I dropped a moment ago."

MARSH GAS

Symbol for daily themes of Marsh, '07: CH4.

AN EVERY DAY OCCURRENCE

PROF. MILLER-" Now are there any questions?"

C. E. Warren, '05 (the ever ready)—"Why do you call it the 'D' slide valve? Oh yes, but it's lying down. I see; and—a—which is the crank end of the piston? the end toward the crank? Oh! and the other end is the head end? I see now; I never quite understood that before. The crank turns around, you say, and that little cover—slide valve, cuts off the steam from—Oh yes! and that's why you call it the cut-off. Thank you. Will we have to hand in the problems next time?"

GEOLOGY OUTING

PROF. CROSBY, pointing to ledge and to golf girl of whose presence he is oblivious—"There, gentlemen, is a very interesting and instructive formation."



Load at middle supported at ends.

FULLER KNEW

LOMBARD, '05 (trying in vain to resolve forces into components)—
"There's an 'F' comes in here some place but I don't know where."
(Takes his seat and Prof. Fuller puts the "F" in his record book.)

MR. SWEET—"What is the object of having such a joint structure in an arch?"

Hool, '05-" That's what I've been wondering myself."

DR. WENDELL (unconsciously pointing to assistant's head)—"We have here a high vacuum."

QUITE TRUE

E. C. Grant, '05—"Why is it that the angle is laid off backward?"
R. S. V. P. Lord, '05—"Why, that's the point in using Zeuner's diagram; everything is laid off in the opposite way from what you'd expect."



GRAESSER, THE FUSSER, IN HIS ELEMENT

STEAM OR HOT AIR

MR. BATCHELDER—"Yes, Mr. Creidenberg, you can produce more steam than you can handle."

THEY MAY GET OVER IT LATER

FIRST FRESHMAN—"Say, Jim, do you know your German?" SECOND FRESHMAN—"Gee, no! I've only been over it twice."

PROF. DIPPOLD (to Wood, '06)—"When I was young I used to cut wood, and now Wood cuts me."

LALLEY, '05-" A distributed load is a load in which one foot weighs Technique as much as the other."

1905

HARD TO TELL

"Who are you going to take to the Prom., Warren?" WARREN, '05-" Oh, I don't know. I've asked three girls already, and two of them have accepted; but I think I'll take someone else."

THERE ARE OTHERS

H. A. HILL, '04-"I can tell by looking at a beam whether it is 'tension' or 'compression.'"

PROF. SWAIN-"You would make more money in a dime museum than as an engineer, Mr. Hill."

J. C. Baker, '04, went to the tool room and asked for stock to make a key-way. The ever-willing slave supplied him with everything necessary.

A TRIFLING INCIDENT

Dr. Thorp-" The vegetation was killed and incidentally the inhabitants."

HAD HEARD ENOUGH

BLODGETT, '06 (translating)—"I'm in love with the inn-keeper's wife."

MR. GOODELL-"That will do."

SCENES OF THE REVOLUTION

Freshman—" The carriage turned into a little triangular square."

NABSTEDT, '05 (translating five lines ahead of the correct place)-"It was now noon-"

DIPPY-" Not yet."

PROF. OSBORNE (in Differential Equations) - "Now if the body should fall from infinity it would never get here; and when it did, it would have a velocity of nearly seven miles per second."

A SECOND TOMMY POPE

F. M. EATON (in Gas Analysis)—"Of course you can't smell it; it's colorless."



FIELD GEOLOGY AT SING SING

Dr. Sherrill-" Now you have the Fe, Al and Sn in solution, what is the next step?"

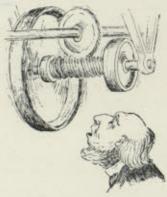
BARRIER, '05-" Break your beaker."

HUNTED

H. J. Mann, '06 (to Marcy, '05)—"You fellows on Technique have to work awfully hard, don't you? I'm going to try mighty hard to keep off our board."

STUDENT (joyously)—"Oh! Mrs. King! I found an oyster in my soup."

MRS. KING (hurriedly)-"I can't help it."



EVEN A WORM WILL TURN

Borrowed from Exam Papers — "Political Economy is the science which teaches us to get the greatest benefit with the least possible amount of honest labor."

"Gravity was discovered by Isaac Walton. It is chiefly noticeable in the autumn, when the apples are falling from the trees."

PROF. ALLEN (late of the legal department of the Atchison, Topeka & Santa Fe of New Mexico, giving an assignment for preparation)—"I have carefully, comprehensively and precisely analyzed my ideas toward you, and the result is substantially as follows, to wit:—"I respect, admire, adore and love you, and purely grant, give and convey to you the following lesson with all my possessions and emoluments, otherwise inherited; or in any other manner acquired, gained, anticipated, or expected in regard to same, with full and complete power to use, expend, utilize, give away, bestow, or otherwise make use of the same, anything heretofore stated, expressed, implied, or understood in or by my previous condition, standing, walk, attitude or actions, to the contrary, notwithstanding; and I furthermore—" The class had gone.

EXTRA DRY

PROF. NORTON'S INTRODUCTORY HEAT LECTURE—"This subject is drier than some you study."

Dr. Sherrill-"What is the cause of the precipitation of water?"

Dr. Johnson's classifications of topographical forms: "Constructional destructional and waist forms."



MAY BE SO, MAY BE NOT

READ, '05, (Translating "Hertzen frau"—wife of my heart.)--"Oh, that's some foolish thing."

PROF. VOGEL-You may change your mind some day, Mr. Read."

DR. NORRIS (whose Organic Chemistry section was crowded)—"I shall have to move this room before next time."



NEITHER DO WE

HARRY CLIFFORD—I may measure my ability by the amount of salary I get per year, but I hope I don't."

MOTTER, '05-" What does 'coquelicots' mean?"

MARCY, '05-" Wild poppies."

MOTTER (writes on exam. paper)—"She filled a large vase with wild puppies."

DR. WENDELL—"What other examples of Opalescence have we?"

L. B. TURNER, '05—"Watery milk, Venetian glass?"

Dr. Wendell-"Yes, but there is one other, though, that is particularly interesting to me."

TURNER—" Blue eyes?"



DOCTOR ROLFE (to Dr. Walker, who is looking through a spectroscope)

"There, you see that glass cuts out the D lines."

DR. WALKER—"The D lines! I don't know the D lines from a rag baby!"

UNKIND

DR. WENDELL:—" Those of you who will take Applied Mechanics, if you ever do"



STEAM ENGINEERING

"Equalization of the Cut-off."

DOUBTLESS

Doc Dewey—" Many of the people who lived a hundred years ago would, in spite of the charitable organizations of that time, have been dead long ago."

NEW JUNIOR—"What does the C. F. of Prof. Allen's name stand for?"

OLD TIMER—"Why, Cut and Fill, I suppose."

DID HE MEAN OPAQUE?

A Freshman wrote in an examination paper: "Rubber triangles are not as good as celluloid, as they make the paper dirty and are invisible."

E. L. SMITH (translating "Il changa la visage") "His face hung down."

JUST LIKE MAC

GREGSON, '05, happened along one day just in time to prevent a man from breaking into Mac's supply room in Eng. A. Mac learned of the affair and the next time Gregson went to the Coop the following ensued.

GREGSON-"I want some co-ordinate paper."

MAC (to assistant)—"How much is the coordinate paper?"

Assistant-"Seventeen cents."

MAC-"Let him have it for ten."

PRONOUNCING GAZETTEER OF PROPER NAMES

Gaetano Lanza (get-é-lanza)—An engineering authority of the sixteenth century. Author of Torsional Tests on the King's English, also of a pamphlet called "Applied Mechanics."

PEABO-" In fact liquid loads always tend to produce instability."

Jones and Perkins attend church in Perkins' home town; gentleman approaches, shakes hands and says, "Are you two strangers, here?"

ROOMMATE (to T. E. Jewett, '05)—"Going fussing to-night?"

JEWETT—"What do you suppose I am taking a bath for?"

Technique

HEARD IN TECH CHAMBERS

WARREN, '05 (beating the box)—"Am I disturbing you?"
BUSHNELL, '05—"Oh! no, I like any kind of music,"

What the National Educational Association thought of Harry T.



Dr. Wendell—"What are the three kinds of vibration."

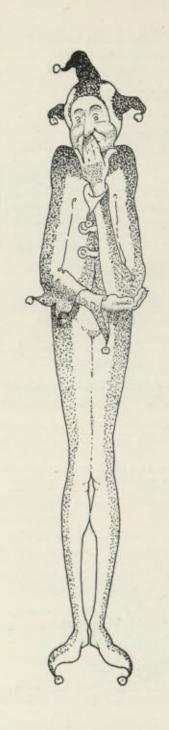
J. V. Barnd, '05—"Longitudinal, transverse and oriental."

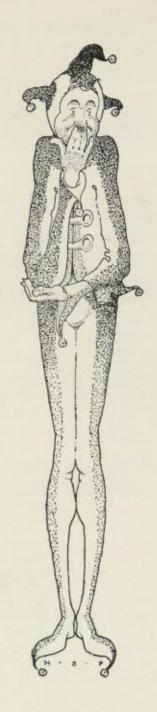
PRETTY GOOD FOR AN ENGLISHMAN

EDMUNDS, '05 (to friend)—"You see Gale made some mistake in the Electrical Lab. and Smith gave him an awful blowing up. It was funny, too, to see Smith blowing up a gale."

There, little boy, don't cry;
They have roasted you hard, I know.
You felt quite blue with the laugh on you,
And your dignity suffered a blow;
But you'll look back,
And laugh, too, bye and bye;
So there, little boy, don't cry.







RESTORATIONS OF AMERICAN COLLEGES

DONE BY

DONE BY

DAYAL JAPANESE EXPEDITION

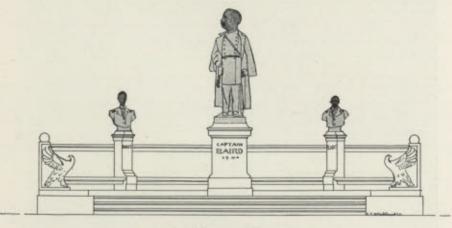
BUSTON AMERICA

AUGUST 2078 [A.D] TOWARD

TOWA

Mr. Takmehomea found the four principal buildings—devoted to Architecture, Naval Architecture, Electricity, and Mechanical Engineering—in a state of good preservation. Chryselephantine statue in foreground supposed to be of Tylah, the American god of Vengeance—some think Zeus. Hole in extreme left, first thought to be a sewer, was almost certainly used for mining engineers and sulphuretted hydrogen. X marks the spot where the Geological Department was found. Details from Restoration. The military memorial to Captain Bayad is shown completely restored. The two figures, one on either side, are supposed to be famous military characters, closely associated in history with the great war god.

The so-called "Mausoleum de Linus" Mr. Takmehomea considers a tribute to some dear departed friend of the Instructor Burry—possibly that sweetheart of his made famous by Bayte's immortal poem, "Love in a Shroud." No sketch can show the subtle lines of the building. It is the



THE MILITARY MEMORIAL

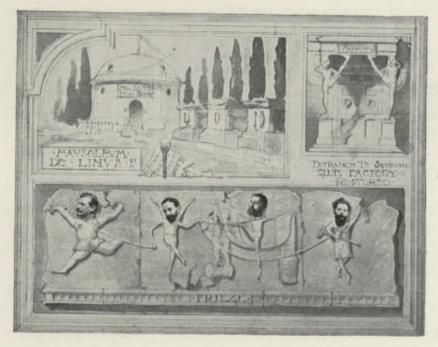
RESTORATION

1905

intersection of a cylinder and a conoidal hyperboloid revolved into H and technique projected upon the fourth dimension.

The odors coming from burning rubbish and Noyes Analyses made it impossible to approach the glue factory. At a distance the chemical carvatis on the porch looked like Talbot and Pope. The fragment of the Bacchanalian Frieze includes the portion devoted to the gods Rom Bow Tylah, Baytes, and Desprayt Dyll, prominent figures in American mythology.

Early evidence seemed to show that the buildings were constructed about 1905, but authorities now agree that they could not have been built prior to 1958 A. D.



DETAILS

Heart to Heart Talks

(With Apologies to LIFE)

N. N. N.

By F. H. Biggs

DEAR LITTLE BOYS AND GIRLS:-

It is a great thing to be a great man like me, but it is greater still to hear what a great man like me has to say. Now I am going to talk to you as if there were no one else present, and tell you a great big secret. Can any little boy or girl guess my secret? Probably not, for it is a very hard one to guess.

Dear children, I am the Advisory Council. Doesn't that surprise you? Wouldn't you like to be in a position like me? Why, the leader of Tammany Hall has to consider the public a little bit, but I don't have to consider anybody. All the little boys at Technology must have my permission before they can exercise. I don't let them exercise much, however, unless they want to try for the Track Team.

I do let some of the younger ones play something else in the fall. They make quite a little money. I give them enough to pay for part of their expenses and take the rest for my beloved Track Team. Children, you are too young to know what love is. The Track Team is my only love.

Several years ago when I abolished all exercise but "Track," I told them that it was done with the object of having one good team here. Perhaps you will hear people whisper that it is not much better now than it was then. But never mind. These mischief-makers will leave soon, and new little boys will come who won't know so much.

Now little boys follow my example, and perhaps some day one of you may be a big fish in a little puddle, too.

A Modern Gallant

COMEDY IN ONE ACT

(Dedicated to C. L. D., '05)

PLACE: West Roxbury. TIME: A winter's evening. Scene: A high-way traversed by cars, and intersected by a typical suburban street. Snow-drifts lie fence-high above the pavement, seriously troubling city folk—natives keep to the middle of the road. Above the highway, 100 yards, a house. Lights burn bright in the lower windows. A young and eager Face presses hard on an upper pane. Behind the face another,—older,—perhaps the MOTHER.

THE FACE: At last the car. He comes. Yes, yes; 'tis he!

THE MOTHER: The Gallant?

THE FACE: The Knight. But see. His face turns elsewhere. He looks not here. He is lost.

THE MOTHER: Patience. Presently he will return.

One—two—three—four minutes elapse, when out of the shadow steps the Knight. He moves quickly, as one whose heart is light.

THE FACE: Alas! Those fatal drifts.

THE KNIGHT plunges deep.

THE MOTHER: He strays from the middle. Poor helpless!

THE FACE: Mother!

The KNIGHT struggles free. All unconscious of the anxious Face turned toward him, he makes no attempt to conceal the wrath he feels. Seeking an open but shadowy corner he laboriously brushes the wet snow from his clothes. He brushes, brushes, brushes. Eventually he mounts the steps of the house and rings for admittance.

THE MOTHER: So glad to see you. But you are wet! You fell into the drifts?

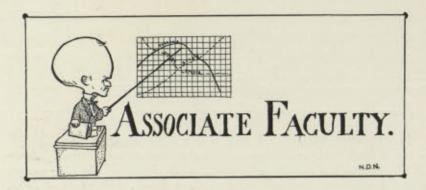
THE KNIGHT: Drifts? What drifts? I have seen none!

THE FACE: None? Why, we saw you-

THE KNIGHT: Must be some mistake. 'Twas another you saw. Perhaps —

(Quick Curtain)

When the Knight dropped off the car he had not seen the Face turned to the Mother, nor heard the bright exclamation, half delight, half welcome, "It is Mr. Dean!"





WALTER L. CRONIN, A. O. H., Professor of Inter-class Law—South Boston High School, '00. Slappa Kappa Frappa, M. I. T., '04.

FIRST Assistant Examiner of "Mellin's Food," 1883-85; Member of Committee to select a Class Flower, Jimson Grammar School, 1895; Member of Committee to supply the Lemonade for Class Day, South Boston High School; Receiver of Medal for Good Work Done, given by W. L. Cronin; President of the Cronin Mutual Protection and Admiration Society since birth.

Author of 1904 Class Picture and The Determination of the Refractive Index of Rock Candy. Residence, 30 Engineering A.

Walter & Coronne



weeter of Hotherman fr.

WALTER L. WHITTEMORE, A.M., P.M., Professor of Pugilism—Boston Normal School of Gymnastics '97; Quincy H. S. '01; Otta No Betta; M. I. T., '05.

Assistant to Nancy Hanks in a series of personally conducted tests on "Flow of Air Through an Orifice," 1902; Professor since the Whittemore-Lindsly Scrap.

Author of the Whittemore Bill introduced in the State Legislature for the Protection of Short Lobsters, White Vests I Have Worn, My First Cigar, Confessions of a Pugilist, Shove in a Crowd (with Arlo Bates), On Original Investigation on Frankfurts, published in two volumes by the Mass. Society for the Prevention of Cruelty to Animals; Vol. I. "The Missing Link," Vol. II. "One Thing Leads to Another." Residence, Lovers' Lane, Chelsea.

HENRY S. SPAULDING, Eta Pi, Professor of Very Ancient History and Argumentation—Boston Cooking School, '99.

Assistant in Argumentation, M. I. T. Drawing rooms, 1902-03; Instructor in Argumentation, 1903-04; Head of the department during 1904. In charge of entrance exams for Mass. State Bughouse; 1899-03; twice nominated for President of the Y. M. C. A.; Applause Starter for the Glee Club, 1902-04.

Author of a complete history of the Japanese-Russian War with explanatory notes; How to be an Athlete; a series of papers on "How Old is Ann?" and a number of articles not published in The Tech.

Residence, 62 Pierce Building.



H. S. Spaulding .

HARRY V. FLETCHER, N.G., Professor of General Information.—Squeedunk H. S., '99. Whi Cara Rappa. Exeter, '0?; M. I. T., '06; Fellow of Squeedunk H. S. Studying at Simmons College and the M. I. T.

Official Speaker at class meetings, 1903-04; Associate Passenger on the Twentieth Century Limited; Consulting Wall Flower at Cadet Hop, Dec., '02; Head Coach, Ping Pong Squad of Girls Latin School, 1900-02; Expert Adviser for the Faculty When in Doubt; Prominent Member of the "Tesh" Club at Exeter.

Author of Tests on a 160 foot rope, conducted at Charles River Park, How to be Happy Though Famous, Report on the Total Eclipse of '07, Nov., '03, and a Treatise on Head End Expansion,

Residence, Mulligan Boulevard, Harlem.



Her. Fletcher

FRED W. TUPPER, JR., C.E., Dr. Slug's School for Backward Boys, '03, A.B.C., M. I. T., '07.

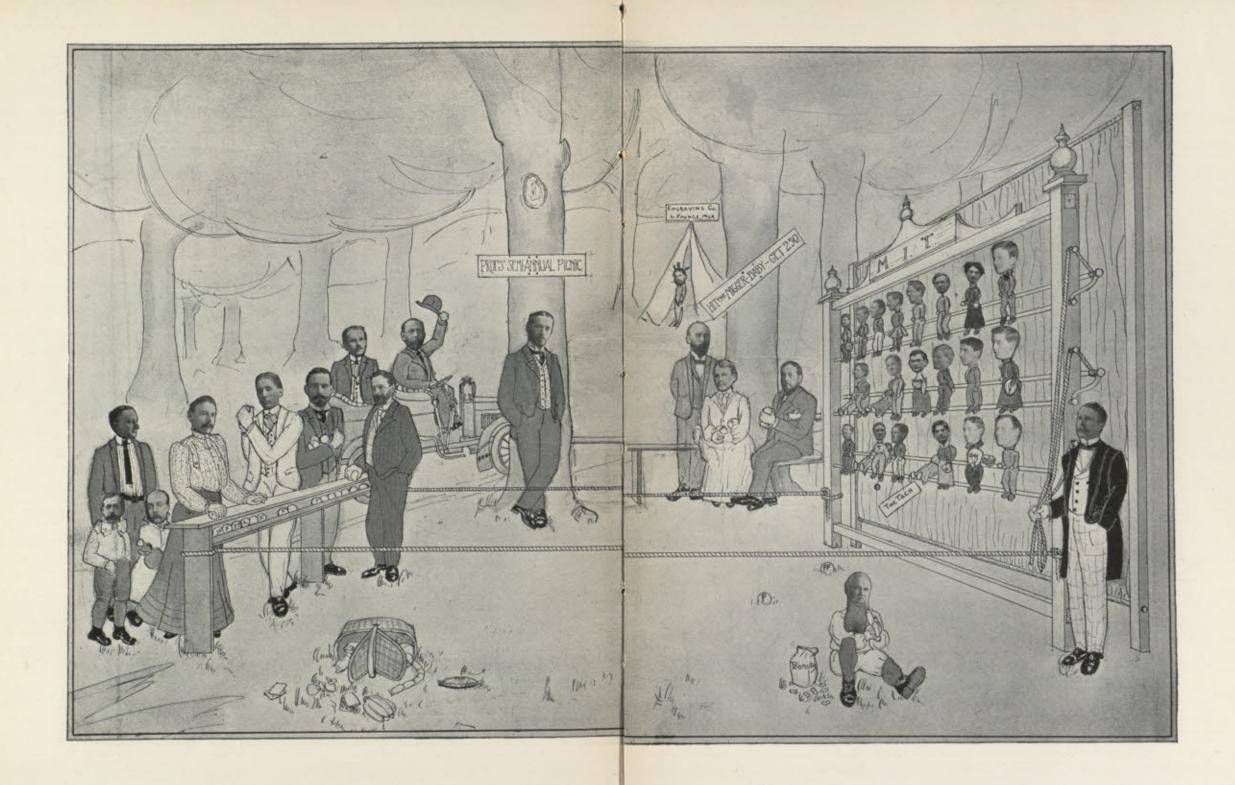
PROFESSOR of Theoretical and Applied Fussing; Vice President American Society of Free Lunch Grabbers; Linesman for the Marconi Co., 1898-99; Member of Commission sent from Harvard Observatory to Rogers Steps to Observe the Transit of Venus; Report on Sunday School Attendance, 12th U.S. Census; Member of M. I. T. Co-op Society, 1903; Employed by M. I. T. Lunch Room on ''Hash Analysis,'' 1899-02 Results published (nine volumes) under title ''All Things Come to Him Who Waits.''

Author of the Efficency of Oil Lubricants on a Military Bearing, "Why I Came to Tech" and "Wild Oats I Have Sown," published in Cereal Form.

Residence, Chapel.



Thea In Tupper for



Correspondence and Clippings

Je 36.36

SUPERFLUOUS HAIR

REMOVAL WHILE YOU WAIT BY MY SCIENTIFIC TREATMENT

Especially prepared for each individual case

I suffered for years with a humiliating growth of hair on my face, and tried many remedies without success, but I ultimately discovered the TRUE SECRET for the permanent removal of hair, and have been applying my treatment to others. I have thousands of testimonials from prominent men and women everywhere, among them Prof. H. M. Goodwin of the Massachusetts Institute of Technology, with whose permission I print the following:



DEAR SIR :-

Before using your treatment I was HAIRY Goodwin. Now I am Professor Goodwin.



BEFORE

AFTER

HIGH RANK IN EXAMINATIONS

Fred Simonds, M. I. T., 1905, son of Mr. and Mrs. Silas E. Simonds, Shawmut ave, is to be heartily congratulated upon his excellent record in the semi-annual examinations just closed at the Institute of Technology. In the different studies he took the highest mark in three, the second highest in six, and the third highest intwo. In mechanical engineering one of the severe tests of a student's ability, he received the highest marking.

19 Concord Square

DEAR UNCLE PAUL :-

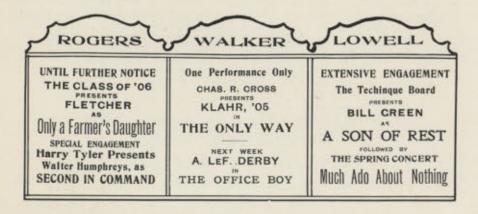
I want to thank you ever and ever so much for that dear little safety razor you and Auntie sent me; it is just what I have been wanting for a long time.

Your loving nephew,

December twenty-six

FRED POOLE.

APPLIED DRAMATICS



LEADING THEATRES OF BOSTON

ENC.'A	ENC. B	ENC. C	SHOPS
JUSTUS ERHARDT AS A GENTLEMAN OF FRANCE FOLLOWED BY PROF. WM. H. NILES AS FOXY GRANDPA	F. S. ELLIOTT AS CAPTAIN JINKS NEXT WEEK A. D. MACLACHLAN A FOOL AND HIS MONEY	The Class of '07 PRESENTS LIEUT. WORCESTER AS THE DICTATOR Last of the Season THE FINAL EXAMS, AS THE CRISIS	J. R. LAMBIRTH PRESENTS HIS ASSISTANT F. A. BROWN AS THEWHITE SLAVE NEXT WEEK EDMUNDS, '05 AS An English Daisy

An Joyl

3.3.3.

ED BOLES stood by the Bursar's door,
Whence all had fled but he,
Save one, a lass of comely mien,
And he did wait for she.

At last she came from the sacred room,
Joined her Edward fresh and bold,
And listened there with eager ears
To the story never old.

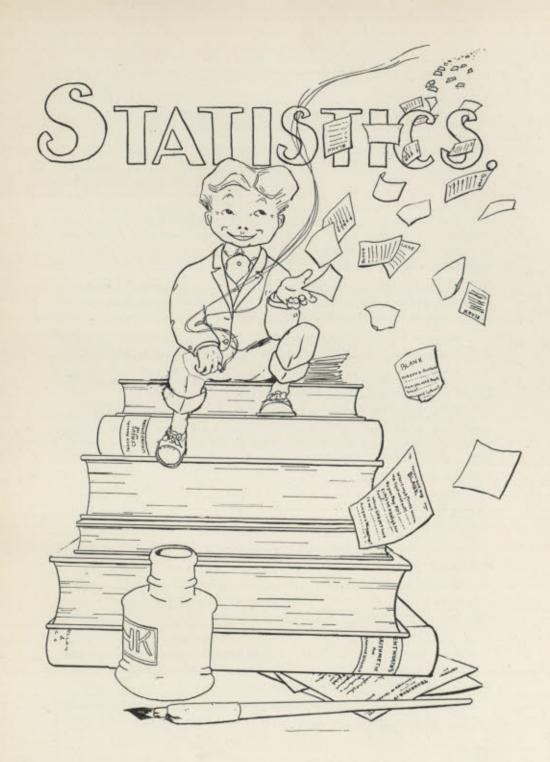
They do the same thing every day,
And talk, and stand, and sigh.
The breeze moans through the folding doors,
And the trolley cars roll by.

They have no fear of late at all,

For both are fresh and young;

But he'll set a pace for the Marathon race

When papa buys a gun.



Class Statistics, 1905

Je 36.36

A list of questions was sent during the term to each 1905 man. Many objected to answering, on the ground that the questions were entirely too personal. From the great majority of the class the questions met with ready replies. The results are set down below.

Age? Average age = 21 years, 2 months, and 3 days. The maximum age is 27 years, with 5 over 25 years. The minimum age is 19 years, claimed by 12 men.

Weight? Average weight = 145.5 pounds. Our heavyweight tips the scales at 190 pounds. Light-weight balances the beam at 105 pounds.

Height? Average height = 5 feet 8.5 inches. Tallest man, 6 feet 3.5 inches. Our midget is 4 feet 10 inches.

Size of Shoe? Average size of shoe = 7.16. We have an extra large number of small feet. The smallest belong to George Gustav Adolph Wald, who wears shoe size 4 1-2. The largest shoe is worn by Earl G. Bill, size 11 1-2 D. We had hoped a Co-ed would win the small-foot contest; but, alas!

Hat? Average size = 7 1-8. The maximum size of hat is worn by Charlie Mayer—only 7 3-4. Kriegsman gets along very well with a hat as small as 6 1-2.

Rising Hour? Average = 21 minutes after 7. E. T. Steel, 2D gets up at 5 to start the fire.

Retiring Hour? Average = 32 minutes after 10. Barron, our night owl, turns in at 1.30 A. M., while our good little boy is tucked away in bed when the clock strikes 9. He lives at home under mother's protecting wing.

Most Popular Man in Class? There were thirty-one men voted for; Marcy and Amberg were tied for first place, with Motter running a close second. Lombard secured third place.

Who Thinks He Is Most Popular? Twenty men voted for, with Amberg, Thomas, Poole and Jones rated in the order named.

Best-looking Man? The judges have been unable to decide between Technique Payne and "Socrates" Spaulding. Fifty-six received notice that they had been considered.

1905

Brightest Man in Class? The general concensus of opinion is that Lewis is the star, but not a few favor A. H. Smith.

Most Likely to Succeed in Life? It is to Waldso Turner we must look in future years as '05's most successful member. A. H. Smith again has a strong following.

Worst Leg-puller? "Billy" Green is alone in his glory. A few have had dealings with W. Turner and N. Lombard.

Typical Freshman? The great majority agree that Whittemore was our "Typical Freshman." Spaulding and Gardner received some attention.

Worst Grind? Answers to this question were more scattered than those to any other. One J. F. Douglas carries off first honors, with Spaulding, Gage, Wentworth, Eisele and Daly trying hard to impress the faculty.

Done the Most for Technology? The votes here were confined to a comparative few. N. Lombard comes out on top, with W. Turner and G. B. Perkins next. Spinoza was not forgotten.

Most Popular Professor? Nineteen were voted for. Dr. Wendell, Professor Merrill, Professor Clifford and Dean Burton, in the order named, are most in favor.

Professor Most Valuable to Institute? There were twenty-five voted for. Dean Burton received the highest number of votes, closely followed by Professor Cross and Dr. Tyler. Professor Lanza is fourth in favor. One of our friends says, "Excuse me for being late in handing in my report, but I have been thinking all this time to find out which of the professors is the most valuable to Tech (if any)." He finally decided on Professor Lanza.

The Best Lecturer? According to the returns Dr. Wendell is the best lecturer. Professor Dewey comes second, with Professors Clifford and Smith tied for third place. Professor Thorp is fourth.

Expenses? Average = \$798. Thirty-three spend over \$1,000, while we have three spending over \$1,500. One man, not living at home, gets along on \$450. The average for those living home seems to be about \$400.

Did You Ever Use a Pawn Ticket? Fifteen per cent of the class have used pawn tickets. Four have been sorely tempted, while two didn't know what a pawn ticket was.

Technique 1905

Are You a Fusser? Fifty-three deny the charge, eighty-five believe they are, twenty-nine are dead sure of it. Blount is the star fusser; he makes everything else secondary. The average man fusses about three hours a week.

Light or Dark? We have a preponderance of light heads. Seventythree per cent are blondes, eighteen are brunettes, the rest don't know what the color of their hair is.

Dinner at the Union? Forty-seven per cent of the class have been to a Saturday night dinner at the Union. Some emphasize the word "once."

Favorite Magazine? It is surprising to find how few read any magazine except The Tech. Of those who do read other magazines, 16 like the Ladies Home Journal, 8 Harpers, 7 Life, 6 Scientific American.

Do You go to Church? According to the results 61.8 per cent attend church and only 23 per cent go to "Chapel." Rather surprising, if not doubtful.

Should Tech Move? Yes, 46.1 per cent. No, 10.5 per cent. The rest don't seem to care what happens to Tech.

Hours Devoted to Exercise? Average = 5 hours per week. One man spends 15 hours a week. Fourteen per cent of the class do not spend any time at exercise.

Do You Smoke, Drink or Chew? Fifty-seven per cent of the class smoke. Forty-nine drink. Thirteen per cent chew.

Political Parties? Returns show that we have 63 Republicans, 10 Democrats, 9 Prohibitionists, 8 Mugwumps, 8 Independents, 5 Socialists, 3 Populists and 2 Single Taxers. About one third of the class are too young to take any notice of politics.

Favorite Drinks? Forty-five and four-tenths per cent favor soft drinks. 54.6 per cent take intoxicants. Milk and water are the favorite soft drinks; Beer leads the other brigade.

Have You a Frock Coat? Yes, 21. Ten expect to have one by "Junior Week."

Have You an Opera Hat? Yes, 26.

Do You Wear Pajamas? Yes, 51. No. 96.

What Did You Pay for Drill Suit?

What Did You get for Drill Suit?

If members of '05 can make transactions in future years such as they claim they made in buying and selling their drill suits, they need have no fear of the future as to financial conditions. One such transaction on a large scale and they would be considered "A Captain of Industry." The average '05 man made three on his drill suit; some fifteen by not getting any.

Working Your Way Through Tech? There are nineteen men who Technique are working their way through the Institute. Sixteen are partly working their way. Not a few are "plugging" their way.

1905

Work during Vacations? Yes, 58 per cent. No, 48.5 per cent. 3.5 per cent of the class forget they're alive.

Vacation Work along Professional Lines? Yes, 45.4 per cent. The rest of those who work take any old thing to do.

How Soon Do You Expect to Marry? As was expected, the answers to this question were most indefinite. Over half the class say that they will marry as soon as they make their "pile." J. H. Rogers is looking for an heiress. Clarke Warren hopes to fix things this coming summer. (Good luck Clarke). W. L. Spalding is despondent over the outlook. H. L. Dean in answer to this question replied, "Very soon." We have since learned that Dean has fulfilled his threat. (Congratulations, Henry). Of those who answered definitely five said they expected to marry within one year; one in two years; one in three years; two in four years; five in five years; one each in six, seven and eight years respectively; seven in ten years and two in fifteen years.

Are You Glad You Came to Tech? Nearly everyone is pleased. Some are "tickled to death." Paquet is "positively wild with joy," but Waldso Turner is "not shouting." By actual count 78.3 per cent are glad; 4.5 per cent are not glad; the rest are in doubt.

Would You Advise Your Little Brother to Come to Tech? Yes, 44.0 per cent. No, 17.5 per cent. Others either haven't got a little brother or they're perfectly indifferent to his fate.

Where Do You Take Your Lunch? One hundred and five eat at Tech Lunch; two own up to Petit Lunch; seven to Oak Grove; two to Vegetarian. The rest eat anywhere that suits their fancy.

Times a Month at Theatre? Average is about twice a month. One man claims to go eight times (can't give him away). Five men go only once a year, and then to the "Tech Show."

Style of Play Preferred? Of those who expressed any preference the majority lean toward Comedy. Drama is next in the list, with Comic Opera third. Burlesque, Vaudeville, and Melodrama have a goodly number of followers. R. H. W. Lord prefers "Tag."

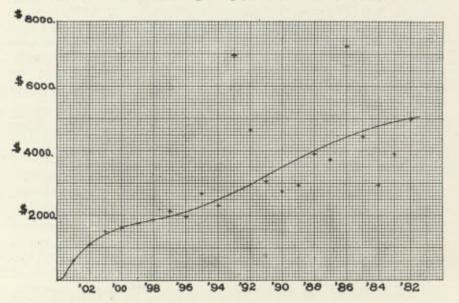
Opinion of Co-operative Society? A toss-up. The class is usually divided for and against it. Victor Hugo Paquet says, "The Co-operative Society is an admirable institution." Geckler says, "A good thing if one cares to take advantage of it." R. Davis answers, "I've often wondered." C. Allen says, "First year thought it was O. K., second year I was suspicious, and now I ---'

Alumni Statistics

363636

During the last year a list of questions was sent to over two thousand six hundred alumni. The following statistics were compiled from the replies received.

Present Salaries. The plot below shows the present salaries averaged for each class from 1902 to 1882. Beyond that date the alumni became too reticent to make the data regarding present incomes of much value.



The curve shows the probable increase of a man's earning power with the years after graduation.

The largest income was thirty-five thousand six hundred dollars, for a member of the class of '93. For the younger men, ten thousand dollars from a graduate of five years ago was the best report.

Number of Positions Held. The usual graduate is promoted twice the first year, once the second year, and again the ninth year. The majority hold but four positions, but about forty per cent change again fifteen years after graduation.

The total number of years' service of graduates, divided by the total number of positions they have held, gives the average length of one position as two years and six months.

First Salaries Received

	L	That o	atarte.	5 Rece	ivea		
Year Graduated							Average First Salary
1868 to 1882					262		\$701
1883 to 1892							681
1893 to 1902							623

Technique 1905

The largest salary received upon graduation was two thousand five hundred dollars in 1890. The smallest reported was, "Nothing for six months." Eleven and four-tenths per cent of graduates are paid over onethousand dollars the first year.

Per cent of Alumni Do You Owe Your Present Position to Tech?

61.0 do owe their present position to Tech.

14.7 do not owe their present position to Tech.

24.3 owe their position partly to Tech or did not answer the question.

What is the Proper length for a Course at Tech?

Per Cent of Alumni

67.2 advocate four years' course.

16.3 advocate five years' course.

16.5 advise three years as a post-graduate course after an academic course at some other college, or disregarded the question.

Should Tech Move Outside of Boston to Accommodate Growth?

Per Cent

62.2 yes.

14.3 no.

23.5 not until absolutely necessary.

What Is the Proper Yearly Allowance for a Tech Student, Including Two Hundred and Fifty Dollars Tuition?

Eight hundred and thirty-eight dollars was the average allowance recommended.

Sixty-three per cent of the alumni of the Institute are married.

When Graduated					Pe	er Cent Married	
Before 1892	14					81.6	
After 1892						50.4	

The descendants of graduates of the Institute number approximately nineteen hundred and sixty-five.

When Graduated	0.0000000000000000000000000000000000000					mber of Children Jundred Families
Before 1892			-			160
After 1892				-		77
Number of Years after Graduation When Married						Per Cent of those Married
Graduation Yea	ar .		60		-	2.8
One Year .			1.			6.3
Two Years .						14.6
Three to Ten	Years					64.8
After Ten Year	'S	6				11.5

The average length of time between graduation and marriage is five years, six months and two days.

Cechnique 1905

Occupations of Graduates, 1868-1902

						Number Employed	Per Cent of Alumni
Engineering Practice			100	1000		470	17.3
11						467	17.2
Electrical Business						246	9.1
Teachers						215	7.9
U. S., State, or City	Emp	oloy				151	5.5
Railroads						144	5.3
Architects						89	3.3
Draughtsmen .						76	2.8
Engineering Business			9		27	67	2.5
Students			,			51	1.9
Naval Architects						45	1.6
Metallurgists .						30	1.1
Chemists						19	0.7
Insurance						14	0.5
Biologists						13	0.5
Assayers	,					11	0.4
Contractors .						10	0.4
Construction Work						7	0.3
Astronomers .		1.				6	0.2
Geologists		140		7.		2	0.1
General Business		1.47				121	4.5
Other Professions						255	9.4
Unassigned						85	3.1
Deceased		530	*		25.42	116	4.3
Total Number o	f Gr	aduates	, 18	68-19	02,	2,710	100.0

The Value of Exact and Systematic Work. The following opinion of the value of the Tech training was written by a graduate of '71, Course III, in answer to the question, "What subject in your course has been most useful to you?"

"The direct application of my work at Tech has been in the line of railroad engineering and electrical propositions. I cannot say that any one

course has been of more benefit to me than another.

"I followed civil engineering in connection with one of our Western railroads for five years after my graduation, and then drifted into the banking business, which I have followed ever since. Our business, however, consists in financing railway, gas, electric and power properties, and the practical use I have derived from my education at Tech has been the ability to examine and size up properties, and I should credit this more to the exact and sysmatic work required of me while at Tech, than to the knowledge obtained from any one course. I do not think, as a rule, a man with the education derived in one of our colleges would be nearly as well fitted for exact practical work in the lines I have followed, as a man who had been educated at Tech. The nature of the work there, in my opinion, fits a man to more quickly grapple with the problems of practical life, if he chooses a strictly business career."

SUMMARY OF GRADUATES BY COURSES

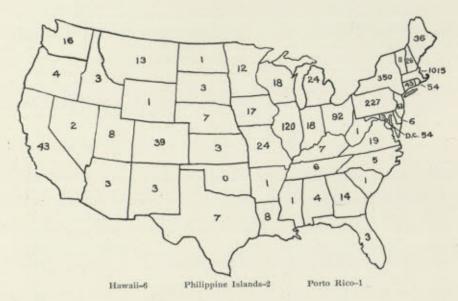
Technique

The following table exhibits the number of persons who have received the Bachelor's Degree in each of the several courses since the foundation of the Institute.

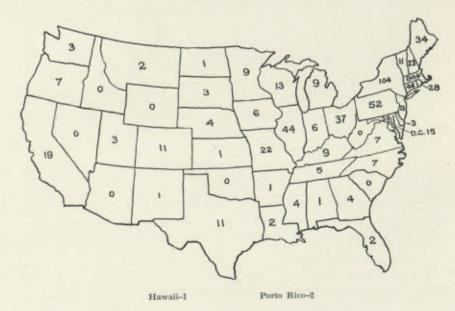
YEAR	Civil	Mechanical Engineering	Mining Engineering	Architecture	Chemistry	Metallurgy	Electrical	Natural History or Biology	Physics	General	Chemical Engineering	Sanitary Engineering	Geology	Naval Architecture	Total
1868	6	1	6	-	73	-	-	-	-	1	_	-	-	-	14
1869	2 4	2	_	-	1	-	-	-	-		-	-	-	-	5 10
1870	4	2	2		1	-	-	-	-	1	_	-	-	-	10
1871	8 3 12	2 2 2 1 2 4	2 5 5 3 1 6	-	2 3 7	-	-	-		-	-	7		-	17
1872	3	1	5	1 1	3	-	-		-	-	-	-	-		12
1873	12	2	3	1	7	-	-	-		1	-	-	-	550	26
1874	10	4	1	1	-	_	-	177	-	2 2	-	mate.		-	18
1875	10	7	6	1	1	7	-	_	1	2	_	-	-		28
1876	12	7 8 6 2 8	7 8 2 3	4 3 1	1 5 2 3	1	****	2	3	4	-	-	770	-	42
1877	12	0	8	4	2	-	-	-		-	-	-	delen.		32
1878	8	2	2	3	3	-	-	1	1	1	-		-	775	19
1879 1880	0		3		1			1	1	1		200	-	5000	23 8
1881	3	-	3	2	1	_		1		1 2	_	-		-	8
1882	2	5 5 7 6	5	3 3 1	8	98		1	1	1			-		28 24
1883	2	7	5	1	3			1	1						19
1884	5	6	13		12										36
1885	8 6 3 3 2 3 5 4	7	8		4	_	2	-	_	1	-				28
1886	9	7 23	3 6 5 5 13 8 7 8 4 5 3 4 4 5 4	2 1 1 5 3 5 6	7	_	2 10		_	î					59
1887	10	17	8	1	9		8	î	1	3	-		_		58
1888	11	17 25 24	4	5	10	-	8 17	3	1	1 3 1			_		77
1889	14	24	5	3	8	-	17	1	î	2	-	-	_	=	75
1890	25	28	3	5	13	_	18	1 3 1 3	2	6	-		-	-	103
1891	18	26	4	6	11	_	23	3	2 3	1	7	-	1		103
1892	22	26	4	13	7	_	36	3 6	1	7	8	6	1		133
1893	25	30	5	2	8	_	41	2	-	6	8	-	2		129
1894	21	31	4	14	11	-	33	2	3	1 7 6 5 4	12	3		-	138
1895	25	30	3	15	14	_	33	-	2	4	11	3 4	_	5	144*
1896	26	34	10	24	17	-	48	3 2 3 2 3 1	3 2 3 4 2 3	7	7	4	3	5 5 9	190*
1897	25	40	7	16	20	-	33	2	3	7	12	4	1	9	179
1898	32	41	7 9	29	25	_	33	3	4	6	9	3	_	7 8	199
1899	30	37	9	22	22	-	32	2	2	1	10		-	8	173*
1900	32	34	21	21	19	-	23	3	3	5	11	4	1	9	185
1901	37	39	18	21	17	-	25	1	1	6	14	4	1	16	200
1902	24	46	14	18	14	-	35	5	3	3	9	7	-	14	192
1903	26	37	27	15	13	_	39	1	4	1	10	4	1	12	190
Totals	525	643	248	251	307	1	506	46	43	89	124	44	10	85	2,916*
De	duct r	names	count	ed twi	ce							14		7	16
Ne	t total										33				2,900*
146	- total														2,000

^{*} Deducting names counted twice

Technique GEOGRAPHICAL DISTRIBUTION OF GRADUATES IN THE UNITED STATES



RESIDENCE OF STUDENTS IN THE UNITED STATES



GEOGRAPHICAL DISTRIBUTION OF GRADUATES

Technique 1905

Country			Nu	mber	Country			Nu	mber	
United St	ates		2	,458	Persia				1	
(Se	ee Map	on Op	posite !	Page)	Peru				1	
Australia			1	3	Scotland		14		1	
Brazil				2	South Af	rica		1	2	
Canada				30	Switzerla	nd	0.0		1	
China				2	Syria				1	
Cuba	22		1	6	Turkey				1	
England				11	1.5			-		108
France				11						2 500
Germany				13						2,566
Guatemal			100	1	Unrep	orted				29
Italy				1						2,595
Japan				5	Deceas	sed				115
Korea				3	Decen					
Mexico				12	Total			-		2,710

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RESIDENCE OF STUDENTS

					Country			N.	mber
Country				Number	Country			Nu	moer
United Sta				. 1,478	Ireland .		10		1
(Se	e Map	on Oppo	site Pa	ge)	Japan .		100		2
Armenia	*			. 1	Malta, Island o	f.			1
Australia	*:	*		. 3	Manitoba .				1
Bermuda				. 1	Mexico .				8
Brazil				. 3	New Brunswick	ς.			1
Chili .				. 1	Nova Scotia	97.			9
China				. 2	Ontario .	16		- 0	2
Cuba .			-	. 3	Quebec .				1
Denmark				. 1	Scotland .	**			1
England				. 4	0 .			55	1
Germany				. 2	Syria		*	-	
India .				. 1	Total .	14	1	. 1,	528

Technique 1905

REGISTRATION

Percentage of Special Students and Percentage of Graduating to Entering Students.

Year		Total Registation		Number of Graduate Students present		Percentage of Special Students		Number in Graduating Class		Percentage of Gradu. ates to those entering with same class
1865-66		72		_	-	12.5	_	-		-
1867	-	137	Ξ	-	=	19.7	Ξ	_		-
1868	-	167	_	5 3	3-3	25.7		14	-	100
1869	-	172	Ξ	3	Ξ	39.5		5	-	8.6
1870	-	206		15	-	39.8		10	-	18.5
1871	-	224	=	13	-	36.2	=	17		34.0
1872	77	261	- 5	14		31.0		12	11111	19.0
1873 1874		348 276	_	9 5	_	27.6 34.0	_	26 18	_	36.6
1875		248		21	шш	23.0		28	=	22.0 25.0
1876	HEHILLERHEIT	255		10	-	21.2	=	42	-	71.2
1877	-	215	_	22		22.8		32	-	91.4
1878	-	194	_	9	_	23.2	-	19		29.2
1879	-	188	-	11		45.2	_	23		74.2
1880	-	203	_	15		44.7	\equiv	8		22.2
1881	_	253	_	14	_	44.7		28		57.1
1882		302	-	15	-	45.7	-	24	_	70.6
1883		368	-	14		40.5	_	19		55.8
1884	Ξ	443		20	100	38.6	3 - 2	36		58.1
1885		579	-	31	-	36.5	-	28		31.4
1886	and .	609	_	19		31.9	_	59	-	51.8
1887 1888	_	637 720	-	21 23	100	30.4 27.8	=	58 77		41.4
1889		827		34		28.7		75		42.4
1890	1000	909		50	. 33	28.3		103		53.7
1891	_	937		48		29.9	1	103		45.0
1892	-	1,011	-	50		30.1	_	133	-	54.3
1893		1,060	-	48	-	27.0	-	129	-	50.6
1894	-	1,157	-	79	-	28.9	-	138	-	59.0
1895	-	1,183	-	72	and a	29.4	-	144	-	55.8
1896	-	1,187 1,198	_	80	-	28.3	Ξ	190	_	62.1
1897	177	1,198		82	-	27.3	-	179	-	59.5
1898	-	1,198	-	73	-	27.7	_	199	-	73.8
1899	-	1,171	-	68	-	26.3		173	-	65.1
1900		1,178 1,277		79 101	177	25.1 27.0	_	185	=	70.0
1901 1902		1,415	_	129		29.2		200 192		71.8 64.1
1903		1,608	=	170		28.3		190		58.1
1904	_	1,528	-	173	_	32.1	-	?	-	?
	Total	, 25,921	Total,	1,645	Average	, 31.4			Average	e, 51.3



The Walker Memorial Fund is now \$83,466.70.

Three hundred and eighty-two students receive instruction in the Mechanical Laboratories.

Two hundred and fifty-eight students attended Summer School last year.

One hundred and forty-nine students were sick during the last year.

There are sixty-four alumnæ of the Institute. Of these nineteen are married.

In the table of Registration Statistics on the opposite page notice in '79 the increase in per cent of special students from 23.2 to 45.2 and the drop a year later in the per cent receiving a degree from 74 to 22. This has the geological indications of a "great catastrophe." The percentages of those graduating to those entering with the same class are high, because of the number of men entering during the course from other colleges.

THE INSTRUCTING STAFF

The following table gives a comparison between the Instructing Staff for this year and last:—

						1902-03	1903-04
Professors					3.0	28	30
Associate Pr	ofesso	rs .				12	14
Assistant Pro	ofessor	rs .		14	12.0	25	25
Instructors			*1		1	54	66
Assistants						46	51
Lecturers			*			39	41
Total						204	227

STUDENTS BY CLASSES

1903-1904

Class			Regular	Special	Total
Fellows and G	radua	tes			
of the M. I	. T.		18	-	18
Fourth Year			238	84	322
Third Year			238	144	382
Second Year	1.0		289	169	458
First Year			255	93	348
Total			1,038	490	1,528

Concerning

Name Location Founded President Alabama Polytechnic Institute . Auburn, Ala. 1872 Charles C. Thack, B.E., A.M. 1 Albion Albion, Mich. 1861 Samuel Dickie, A.M., M.S., LL.D. 2
THE PARTY OF THE P
Allegheny College Meadville, Pa. 1815 William H. Crawford, D.D., LL.D. 3
Amherst College Amherst, Mass. 1821 George Harris, D.D., LL.D. 4
Armour Institute Chicago, Ill. 1868 Frank Wakeley Gunsaulus, D.D. 5
Barnard New York, N. Y. 1889 Laura D. Gill, A.B., LL.D. (Dean) 6
Bates College Lewiston, Me. 1864 George C. Chase, D.D., LL.D. 7
Beloit College Beloit, Wis. 1843 Edward D. Eaton, D.D., LL.D. 8
Boston University Boston, Mass. 1869 William E. Huntington, Ph.D. 9
Bowdoin College Brunswick, Me. 1794 William De Witt Hyde, D.D., LL.D. 10
Brown University Providence, R. I. 1764 William H. Perry Faunce, A.M., D.D. 11
Bryn Mawr Bryn Mawr, Pa. 1880 M. Cary Thomas, Ph.D., LL.D. 12
Buchtel College Akron, Ohio 1870 A. B. Church, A.M., D.D. 13
Bucknell University Lewisburg, Pa, 1846 John Howard Harris, Ph.D., LL.D. 14
Case School of Applied Science . Cleveland, Ohio 1880 Chas. S. Howe, B.S., Ph.D. 15
Central University Richmond, Ky. 1874 Lindsay H. Blanton, A.M., LL.D. 16
Claffin University Orangeburg, S. C. 1872 Lewis M. Dunton, A.M., D.D. 17
Clark University Worcester, Mass. 1889 G. Stanley Hall, Ph.D., LL.D. 18
Colby University Waterville, Me. 1818 Charles L. White, A.M., D D. 19
Colgate University Hamilton, N. Y. 1819 George Edwards Merrill, D.D., LL.D. 20
College of the City of New York New York, N. Y. 1847 John H. Finlay, D.D., LL.D. 21
College of the Holy Cross Worcester, Mass. Joseph F. Hanselman, S.J. 22
College of William and Mary . Williamsburg, Va. 1603 Lyon G. Tyler, M.A., LL.D. 23
Colorado College Colorado Springs, Col. 1874 William Fred. Slocum, A.B., D.D., LL.D. 24
Columbia University New York, N. Y. 1754 Nicholas M. Butler, Ph.D., LL.D. 25
Columbian University Washington, D. C. 1821 Charles W. Needham, LL.M., LL.D. 26
Cornell University Ithaca, N. Y. 1865 Jacob Gould Schurman, D.Sc., LL.D., A.M. 27
Cumberland University Lebanon, Tenn. 1879 David E. Mitchell, A.B. 28
Dartmouth College Hanover, N. H. 1769 William J. Tucker, D.D., LL.D. 29
De Pauw University Greencastle, Ind. 1837 Edwin Holt Hughes, A.M., D.D. 30
Dickinson Carlisle, Pa, 1783 George Edward Reed, S.T.D., LL.D. 31
Drake University Des Moines, Iowa 1891 Hill M. Bell, A.M. 32
Fisk University Nashville, Tenn. 1866 James G. Merrill, D.D. 33
Franklin and Marshall Lancaster, Pa. 1853 John S. Stahr, Ph.D., LL, D. 34
Georgetown University Washington, D. C. 1789 Jerome Dougherty, S.J. 35
Girard College Philadelphia, Pa. 1848 A. H. Felterolf, Ph.D., LL.D. 36
Hamilton College Clinton, N. Y. 1812 Melancthon W. Stryker, D.D., LL.D. 37
Harvard University Cambridge, Mass. 1636 Charles William Eliot, A.M., LL.D. 38
Hobart College Geneva, N. Y. 1822 Langdon C. Stewardson, A.M., LL.D. 39
Howard College Washington, D. C. 1867 John Gordon, A.B., A.M., D.D. 40
Illinois Wesleyan University . Bloomington, Ill. 1853 Edgar M. Smith, B.A., M.A., D.D. 41
Indiana University Bloomington, Ind. 1820 William L. Bryan, A.B., A.M., Ph.D. 42
Iowa College Grinnell, Iowa 1843 Dan Freeman Bradley, D.D. 43
Iowa State College Ames, Iowa 1858 Albert Boynton Storms, M.A., D.D. 44

The Colleges

	Rlder.	Stud'ts	Inst'r	s College Colors	Annual	Co-educa-	Tuition	Val. Prop'ty incl. Endw't
1	8	486		Orange and Blue	Glomerata	Yes	None	200,000
2	7	442	26	Pink and Green		Yes	30	500,000
3	8	229	16	Blue and Gold	Kaldron	Yes	51	830,000
4	24	411	42	Purple and White	Olio	No	110	2,500,000
5	4	1,400	60	Yellow and Black	Integral	Yes	120	5,000,000
6	1	459	50	Blue and White	The Mortarboard	No	150	726,700
7	8	340	18	Garnet	Bulletin No. 1	Yes	50	500,000
8	13	450	28	Gold	Codex	No	56	1,388,000
9	40	1,336	144	Scarlet and White	The Hub	Yes	125	1,700,000
10	11	877	46	White	The Bugle	No	75	1,820,000
11	18	935	83	Brown and White	Liber Brunensis	Yes	105	4,496,900
12	13	445	47	Yellow and White	The Lantern	No	150	2,278,810
13	6	280	16	Gold and Blue	The Buchtel	Yes	40	400,000
14	12	710	45	Orange and Navy Blue	L'Agenda	Yes	100	1,000,000
15	5	458	28		Differential	No	100	
16	12	1,320	44	Cardinal and Blue	Cardinal and Blue	Yes	50	750,000
17	12	485	32	Orange and Maroon	Bulletin	Yes	60	175,000
18	375.0	1000	1000					
19	13	197	15	Pearl Gray	Colby Oracle	Yes	60	650,000
20	. 8	222	33	Maroon	Salmagundi	No	60	2,225,000
21	4	2,263	-121	Lavender	Register	No	None	1,655,300
22		390	27	Purple and White	The Purple	No	60	
23	8	243	16	Orange and White	Colonial Echo	No	35	250,000
24	14	587	39	Gold and Black	The Tiger	Yes	35	1,475,000
25	21	4,557	585	Light Blue and White	Columbian	No	250	
26	4	1,400	165	Orange and Blue	Columbian	No	100	1,300,000
27	25	3,000	400	Carnelian and White	The Cornellian	Yes	150	12,000,000
28	6	648	66	Green, White, Blue	Phanix	No	150	514,000
29	25	870	70	Dark Green	Acgis	No	125	3,300,000
30	9	617	83	Old Gold	The Mirage	Yes	15	_635,000
31	12	246	17	Red and White	The Microcosm	Yes	6	450,000
32	6	1,687	101	Blue and White	Quax	Yes	49	500,000
33	8	517	30	Blue and Yellow		Yes	15	400,000
34	8	180	15	Blue and White	Oriflamme	Yes	None	345,000
35	1	750	125	Blue and Gray	Hodge Podge	No	150	1,450,000
36	13	1,510	66	Steel and Garnet		No	None	10,504,059
37	16	190	20	Buff and Blue	Hamiltonian	No	75	1,250,000
38	64	4,328	550	Crimson		No	150	23,000,000
39	14	105	16	Orange and Royal Purple	Echo of the Seneca	No	80	793,584
40	16	866	90	Blue and White		Yes	None	2,000,000
41	4	1,465	34	Green and White	Argus	Yes	50	250,000
42	10	1,469	69	Cream and Crimson	Arbutus	Yes	None	1,000,000
43	7	524	40	Scarlet and Black	Junior Annual	Yes	55	600,000
44	21	1,400	97		The Bomb	Yes	24	1,731,832

Concerning

Name	Location	Founde	ed President	
Johns Hopkins University	Baltimore, Md.	1876	Ira Remson, A.B., LL,D., M.D., Ph.D.	1
Kentucky University	Lexington, Ky.	1836	Burris A. Jenkins, A.M., B.D., D.D.	2
Knox College	Galesburg, Ill.	1837	Thomas McClelland, A.M., D.D.	3
Lafayette College	Easton, Pa.	1832	Rev. Ethelbert D. Warfield, D.D., LL.D.	4
Lake Forest University	Lake Forest, Ill.	1855	Richard D. Harlan, A.M., D.D.	.5
Lehigh University	South Bethlehem, Pa.	1866	Thomas Merringer Drown, LL,D.	6
Leland Stanford, Jr., University	Stanford University, Cal	. 1891	David Starr Jordan, LL,D., Ph.D., M,S.	7
Manhattan College	New York City	1853	Brother Jerome, F.Sc.	8
Marietta College	Marietta, Ohio	1835	Alfred Tyler Perry, A.M., D.D.	9
Mass, Institute of Technology .	Boston, Mass.	1865	Henry Smith Pritchett, Ph.D., LL.D.	10
Mount Holyoke	South Hadley, Mass.	1837	Mary E. Woolley, A.M., L.H.D.	11
New York University	New York, N. Y.	1831	Henry M. MacCracken, D.D., LL.D.	12
Northwestern University	Evanston, Ill.	1851	Edmund Janes James, A.M., Ph.D.	13
Oberlin College	Oberlin, Ohio	1833	Henry C. King, D.D.	14
Ohio State University	Columbus, Ohio	1872	William O. Thompson, D.D., LL,D.	15
Ohio Wesleyan University	Delaware, Ohio	1844	James W. Bashford, A.M., Ph.D., D.D.	16
Pennsylvania State College .	State College, Pa.	1859	Geo, W. Atherton, A.B., LL.D.	17
Polytechnic Institute of Brooklyn	Brooklyn, N. Y.	1854	Henry Sawyer Snow, A.B., LL.D.	18
Pratt Institute	Brooklyn, N. Y.	1887	Charles M. Pratt, A.B., A.M.	19
Princeton University	Princeton, N. J.	1746	Woodrow Wilson, Ph.D., Litt.D., LL.D.	20
Purdue University	Lafayette, Ind.	1874	Winthrop E. Stone, A.M., Ph.D.	21
Radcliffe	Cambridge, Mass.	1879	Le Baron R. Briggs, A.M., LL.D.	22
Rensselaer Polytechnic Institute	Troy, N. Y.	1824	Palmer C. Ricketts, C.E.	23
Richmond College	Richmond, Va.	1832	F. M. Boatwright, M.A., LL.D.	24
Rose Polytechnic Institute	Terra Haute, Ind.	1874	C. Leo Mees, Ph.D.	25
Rutgers College	New Brunswick, N. J.	1766	Austin Scott, Ph.D., LL.D.	26
Shaw University	Raleigh, N. C.	1866	Charles F. Neeserve	27
Smith College	Northampton, Mass.	1875	L. Clark Seelye, D.D., LL.D.	28
Southwestern University	Georgetown, Tex.	1869	R. S. Hyer, A.M., LL.D.	29
State University of Iowa	Iowa City, Iowa	1847	George E. MacLean, M.A., LL.D.	30
Stevens Institute of Technology	Hoboken, N. J.	1870	Alexander C, Humphreys, M.E., Sc, D., LL.D.	. 31
Swarthmore	Swarthmore, Pa.	1869	Joseph Swain, LL.D.	32
Syracuse University	Syracuse, N. Y.	1871	James R. Day, S.T.D., LL.D.	33
Throop Polytechnic Institute .	Pasadena, Cal.	1891	Walter A. Edwards, A.B., A.M., LL.D.	34
Trinity College	Hartford, Conn.	1824	Havel S. Luther, B.A., Ph.D.	35
Tufts College	Tufts College, Mass.	1855	Eimer H. Capen, A.M., D.D., LL.D.	36
Tulane University	New Orleans, La.	1834	Edwin Anderson Alderman, LL.D.	37
Ulysses S. Grant University .	Chattanooga, Tenn.	1867	John H. Race, A.M., D.D.	38
Union University	Schenectady, N. Y.	1795	Andrew V. V. Raymond, DD., LL.D.	39
United States Military Academy	West Point, N. Y.	1802	Albert L. Mills, Colonel, U. S. A.	40
United States Naval Academy .	Annapolis, Md.	1845	Captain Bronson, U. S. N.	41
University of Alabama	University, Ala.	1831	John W. Abercrombie, LL.D.	42
University of Arizona	Tucson, Ariz.	1885	Kendric C. Babcock, B.L., A.M.,	43
University of Arkansas			Henry S. Hartzog, LL.D.	44

The Colleges

	Bldgs.	Stud'ts	Inst'	rs College Colors	Annual	Co-educa- tional	Tuition	Val. Prop'ty incl. Endw't
1	12	714	158.	Black and Old Gold	The Hullabaloo	No	200	5,000,000
2	10	1,200	66	Crimson	Crimson		30	800,000
3	5	636	29	Purple and Gold	The Gale	Yes	120	560,000
.4	30	422	30	Maroon and White	The Melange	No	100	1,150,000
5	9	141	16	Red and Black	The Forester	Yes	. 40	1,000,000
6	14	625	56	Brown and White	Epitome	No	125	2,500,000
7	38	1,216	130	Cardinal Red	Stanford Quad	Yes	20	30,000,000
8		294	26	Green and White		No	100	
9	6	301	23	Navy Blue and White	Mariettana	Yes	50	500,000
10	8	1,528	227	Cardinal Red and Silver Gray	Technique	Yes	250	1,776,117
11	20	764		Light Blue	Llamarada	No	125	1,200,000
12	12	2,177	274	Violet	The Violet	Yes	100	3,500,000
13	14	3,225	197	Royal Purple	The Syllabus	Yes	80	6,761,250
14	16	1,600	94	Crimson and Gold	Hi-O-Hi	Yes	75	2,356,000
15	22	1,800	146	Scarlet and Gray	Makio	Yes	None	3,668,876
16	11	1,291	72	Black and Red	Bijou	Yes	46	1,736,126
17	17	720	58	Blue and White	La Vie	Yes	100	1,770,000
18	2	195	22	Blue and Gray	The Polywog	No	200	600,000
19	7	3,485	124	Cadmium Yellow	2 (2)	Yes	75	4,000,000
20	57	1,431	109	Orange and Black	Bric-a-Brac	No	160	
21	28	1,438	98	Old Gold and Black	Debris	Yes	25	1,240,000
22	7	458	90	Red and White		No	200	600,000
23	6	370	22	Cherry and White	Transit	No	200	
24	10	215	16	Crimson and Blue	The Spider	No	70	1,100,000
25	5	210	20	Old Rose and White	The Modulus	No	100	1,000,000
26	10	225	32	Scarlet	Scarlet Letter	No	75	
27	11	500	45	Cardinal and White		Yes	15	160,000
28	24	1,033	80	White		No	100	2,665,000
29	5	417	22	Lemon and Black	Sou'wester	Yes	60	300,000
30	19	1,442	130	Old Gold	The Hawkeye	Yes	75	2,000,000
31	3	322	25	Silver Gray and Crimson	Link	No	225	1,250,000
32	8	225	25	Garnet	Halcyon	Yes	150	1,500,000
33	11	2,222	189	Orange	The Onondagan	Yes	125	2,156,711
34	2	520	30		Polytechnic	Yes	75	200,000
35	5	125	20	Dark Blue and Old Gold	Ivy	No	100	850,000
36	18	982	175	Brown and Blue	The Brown and Blu	e Yes	100	2,000,000
37	20	1,379	95	Olive and Blue	Jambalaya	Yes	85	2,800,000
38	14	800	63	Blue and Gold	TO CONTRACT TO CO.	Yes	50	417,700
39	15	589	96	Garnet	The Garnet	No	75	1,500,000
40		460	80	Black, Gray and Gold		No	None	
41		435	: EMPS	Blue and Old Gold	The Lucky Bag	No	None	
42	10	420	41	Crimson and White	The Corolla	Yes	None	1,500,000
43	12	205	23	Blue and Red		Yes	None	225,000
44	16	1,250	75	Cardinal	Cardinal	Yes	None	350,000
	10000		1000	CONTRACTOR C	CONTROL DESCRIPTION			our your

Concerning

University of California Berkeley, Cal. 1868 Benjamin Ide Wheeler, Ph.D., LL.D University of Chicago Chicago, Ill. 1891 W. R. Harper, D.D., Ph.D., LL.D.	2 3
	7
	3
University of Cincinnati Cincinnati, Ohio 1858 Howard Ayers, B.S., Ph.D., LL.D.	
University of Colorado Boulder, Col. 1877 James H. Baker, M.A., LL.D.	4
University of Denver Denver, Col. 1864 Henry A. Buchtel, A.M., D.D., LL.D.	5
University of Georgia Athens, Ga, 1801 Walter B. Hill, A.M., LL.D.	6
University of Idaho Moscow, Idaho 1892 James Alexander MacLean, M.A., Ph.D.	7
University of Illinois Urbana, Ill. 1868 Andrew Sloan Draper, LL.D.	8
University of Maine Orono, Me. 1865 George Emory Fellows, Ph.D., L. H.D., LL.D.	. 9
University of Michigan Ann Arbor, Mich. 1837 James B. Angell, LL.D.	10
University of Minnesota Minneapolis, Minn. 1868 Cyrus Northrop, LL.D.	11
University of Missouri Columbia, Mo. 1899 Richard H. Jesse, L.L.D.	12
University of Nebraska Lincoln, Neb. 1869 E. Benjamin Andrews, D.D., LL.D.	13
University of North Carolina . Chapel Hill, N. C. 1789 Francis P. Venable, Ph.D., LL.D.	14
University of North Dakota . Grand Fork, N. D. 1883 Webster Merrifield, M.A.	15
University of Notre Dame Notre Dame, Ind. 1842 Andrew Morrissey, C.Sc., A.M.	16
University of Oklahoma Norman, Okla, 1892 David R. Boyd, A.M., Ph.D.	17
University of Omaha Bellevue, Neb. 1880 David R. Kerr, Ph.D., D.D.	18
University of Oregon Eugene, Ore, 1878 P. L. Campbell, A.B.	19
University of Pennsylvania . Philadelphia, Pa. 1740 Charles C, Harrison, LL.D.	20
University of Rochester Rochester, N. Y. 1850 Rush Rees, A.M., D.D., LL.D.	21
University of South Dakota . Vermilion, S. D. 1882 Garrett Droppers, A.B.	22
University of Tennessee Knoxville, Tenn. 1794 Charles W. Danbey, A.B., Ph.D., LL.D.	23
University of Texas Austin, Texas 1883 William L. Prather, LL.D.	24
University of the South Sewance, Tenn, 1868 Benjamin L. Wiggins, M.A., LL.D.	25
University of Utah Salt Lake City, Utah 1850 J. J. Kingsbury, Ph.B., A.M., Ph.D., D.Sc.	26
University of Vermont Burlington, Vt. 1791 Mathew H. Bucham, D.D., LL.D.	27
University of Virginia Charlottesville, Va. 1825 J. M. Page, M.A., Ph.D.	28
University of Wisconsin Madison, Wis. 1848 Charles R. Van Hise, Ph.D.	29
University of Wyoming Laramic, Wyo. 1886 Charles W. Lewis, B.A., M.A., D.D.	30
Vanderbilt University Nashville, Tenn. 1873 J. H. Kirkland, LL.D., Ph.D., D C.H.	31
Vassar College Poughkeepsie, N. Y. 1861 James Munroe Taylor, D.D., LL.D.	32
Wash'n and JefPn University . Washington, Pa. 1802 James David Moffat, D.D., LL.D.	33
Wash'n and Lee University . Lexington, Va. 1749 George H. Denney, M.A., Ph.D., LL.D.	34
Washington University St. Louis, Mo. 1853 W. S. Chaplin, A.M., LL.D.	35
Wellesley College Wellesley, Mass. 1870 Caroline Hazard, M.A., Litt.D.	36
Wells College Aurora, N. Y. 1870 George M. Ward, B.A., M.A., D.D., LL.D.	37
Wesleyan University Middletown, Conn. 1831 Bradford Paul Raymond, D.D., L.L.D.	38
Western Maryland Westminster, Md. 1867 Thomas H. Lewis, A.M., D.D.	39
Western Reserve Cleveland, Ohio 1826 Charles F. Thwing, D.D., LL.D.	40
Williams College Williamstown, Mass. 1793 Henry Hopkins, D.D., LL.D.	41
Worcester Polytechnic Institute Worcester, Mass. 1865 Edmund Arthur Engler, A.M., Ph.D., LL.D.	42
Wooster University Wooster, Ohio 1869 Louis Edward Holden, D.D., LL.D.	43
Yale University New Haven, Conn. 1701 Arthur T. Hadley, LL.D.	44

The Colleges

	Bldgs.	Stud'ts	Inst'r	s College Colors	Annual	Co-educa- tional	Tuition	Val. Prop'ty incl. Endw't
1	30	3,291		Blue and Gold	Blue and Gold	Yes	None	
9	84	4,463	325	Maroon	The Cap and Gown	Yes	120	18,000,000
8	10	1,300	162	Scarlet and Black	Cincinnatian	Yes	75	
4	13	581	103	Silver and Gold	Coloradoan	Yes	None	400,000
5	12	1.311	190	Red and Gold	Kynewisbok	Yes	30	750,000
6	14	360	25	Red and Black	Pandora	No	50	562,844
7	4	350	25	Silver and Gold	Gem of the Mountain	s Yes	None	325,000
8	16	2,665	334	Orange and Blue	The Illio	Yes	105	2,750,000
9	32	539	63	Light Blue	The Prism	Yes	30	1,000,000
10	19	3,800	233	Maize and Blue	Michiganensian	Yes	45	2,900,000
11	35	3,800	275	Maroon and Old Gold	The Gopher	Yes	100	2,000,000
12	25	1,547	105	Gold and Black	The Savitor	Yes	10	2,600,000
13	16	2,560	172	Scarlet and Cream	The Sombrero	Yes	None	1,000,000
14	16	613	58	Blue and White	Yackety-Yack	Yes	75	600,000
15	8	666	35	Pink and Green	The Dacotah	Yes	None	400,000
16	28	850	70	Gold and Blue		No	400	3,000,000
17	7	450	31	Crimson and Cream	News Letter	Yes	None	200,000
18	6	203	23	Purple and Gold	Old Elk Hill	Yes	50	140,000
19	9	497	76	Lemon Yellow	Webfoot	Yes	None	
20	30	2,692	316	Red and Blue	The Record	No	200	11,191,187
21	5	264	21	Dandelion Yellow	Interpres	Yes	75	1,400,000
22	4	425	40	Vermilion	Coyote	Yes	50	370,000
23	18	726	92	Orange and White	The Volunteer	Yes	60	1,013,291
24	11	1,360	110	Orange and White	Cactus	Yes	None	3,000,000
25	10	467	45	Royal Purple	Cap and Gown	No	100	750,000
26	7	789	42	Crimson and Silver	Annual	Yes	10	433,000
27	12	350	36	Green and Gold	The Ariel	Yes	60	1,407,950
28	17	655	62	Orange and Blue	Corks and Curls	No	100	1,800,000
29	31	3,051	227	Cardinal	The Badger	Yes	None	1,368,806
30	9	225	19	Brown and Yellow	- 2	Yes	None	2,000,000
31	20	725	100	Black and Gold	Comet	Yes	100	2,500,000
32	20	981	80	Rose and Gray	Vassarian	No	100	2,600,000
33	7	345	26	Red and Black	Pandora	No	60	700,000
34	20	305	28	Blue and White	The Calyx	No	50	1,000,000
35	20	2,219	196	Myrtle and Maroon	The Hatchet	Yes	150	7,774,000
36	15	981	90	Deep Blue	Legenda	No	175	2,076,000
37	6	125	22	Cardinal	The Cardinal	No	100	
38	12	335	36	Cardinal and Black	Olla Podrida	Yes	75	2,250,157
39	18	250	20	Old Gold and Olive Green	Aloha	Yes	45	250,000
40	15	765	153	Red and White	Reserve	Yes	125	2,824,800
41	20	442	35	Royal Purple		No	105	
42	8	272	32	Crimson and Steel Gray		No	150	1,400,000
43	9	480	24	Black and Old Gold	The Index	Yes	60	750,000
44	55	2,963	384	Blue	Yale Banner	No	155	

Courses

I CIVIL ENGINEERING

II MECHANICAL ENGINEERING

III MINING ENGINEERING

IV ARCHITECTURE

V CHEMISTRY

VI ELECTRICAL ENGINEERING

VII BIOLOGY

VIII PHYSICS

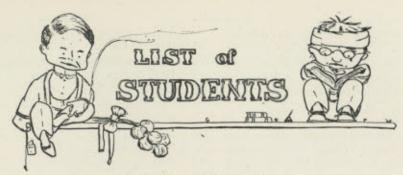
IX GENERAL STUDIES

X CHEMICAL ENGINEERING

XI SANITARY ENGINEERING

XII GEOLOGY

XIII NAVAL ARCHITECTURE



S, Special Students; G, Graduate Students.									
Name and Society Cla	iss	Course	Home Address						
Abbott, Arthur Howard, '(05	VI	S 1 Center St., Clinton, Mass.						
Abbott, Charles Edward,	6	XIII	S 21 Athelwold St., Dorchester, Mass.						
Abbott, Fred Hathaway, Δ T Δ,	5		S 1138 C'nw'lth Av., Brookline, Mass.						
Abbott, Russell Chandler,	7	I	Andover, Mass.						
Abbott, William George, Jr.	6	VI	1525 Pine St., Philadelphia, Pa.						
Ackerson, James Lee, X Φ,	5	XIII	A Middleville, Mich.						
Adams, Charles Robert,	5	I	23 Burr St., Jamaica Plain, Mass.						
Adams, Howard Pratt,	7	II	S 114 Winter St., Fall River, Mass.						
Adams, Daniel,	5	II	Wellesley Hills, Mass.						
Adams, Ralph Emerson,	4	III	91 Arl'g'ton St., S. Fr'g'h'm, Mass.						
Ager, John Winfred, B S,	4	VI	296 Carlton Ave., Brooklyn, N. Y.						
Ahumada, Miguel, Jr., AY,	6	III	S Guadalajara, Mexico.						
Ainsworth, George Raymond, S. B.	4		AG 531 W'sh'gton St., Brokline, Mass.						
Albro, Robert Clifford,	7	I	377 St. James Av., Springfield Mass.						
Allbright, Edwin Francis,	4	I	24 Virginia St., Dorchester Mass.						
Allen, Charles Everett,	7	I	249 Main St., Spencer, Mass.						
Allen, Chester,	5	I	203 Temple St., W. Roxbury, Mass.						
Allen, Lawrence,	7	VI	East Freetown, Mass.						
Allen, Leon Lincoln,	7	I	209 W'sh'gton St., Brookline, Mass.						
Allen, Roy Hutchins,	5	III	19 Stevens St., Winchester, Mass.						
Alvord, Henry Bissell,	7	I	South Weymouth, Mass.						
Amadon, Frederick Webber,	7	I	63 Union Av., S. Framingham, Mass.						
Amberg, Arthur John, A K E,	5		S 1820 Melrose St., Chicago, Ill.						
Ammen, William W., A.B., K A,		XIII	1212 Madison Ave., Baltimore, Md.						
Anderson, Alf Edward,	6	II	89 Evans St., New Dorchester, Mass.						
Anderson, Claude Aurelius,	5		S Austin, Minn.						
Anderson, John Wallace,	6	II	95 Jason St., Arlington, Mass.						
Angus, Robert Alexander,	7	VI	110 Oak St., Hartford, Conn.						
Anson, Charles Lyman, A K E,	6	XIII	535 Marshall St., Milwaukee, Wis.						
Applegate, Thomas Ely, S.B.,	6	II	Hightstown, N. J.						
Armstrong, Fritz Albert,	6	I	220 W. River St., Hyde Park, Mass.						
Armstrong, Harry James,	6	VI	1013 Lanvale St., Baltimore, Md.						
Arnold, Albert Heber Bailey,	4	III							
Arnold, Perrie Morgan,	4	II	140 Vine St., Hartford, Conn.						
A CONTRACTOR OF THE PARTY OF TH	-1750								

1905

Technique Ashenden, Richard Chesley, Φ BE, '07 Home Address II 127 Oakleigh Road, Newton, Mass. Ashley, Allen, B.S., K Z, VI 6 Ruston, La. 6 VI 38 West Newton St., Boston, Mass. Ashmore, Morse Breckenfeld, XIII Atkins, George Edwin, Φ B E, 4 1047 Waln't St., N'wt'n H'l'ds, Mass. 5 Atwood, Carlton Elliot, VI Chelmsford, Mass. 5 II S 346 Crafts St., Newtonville, Mass. Avery, Charles Henry, 5 Ayer, John, I Belmont, Mass. 5 VII S 40 Lincoln Ave., Portsmouth, N. H. Ayers, Samuel Henry, 6 V S Natick, Mass. Babb, Roger Willis, Babcock, Courtlandt W., Ph.B., 5 VI Stonington, Conn. Bachmann, Frederick, XIII 677 W.Bal'tm're St., Baltimore, Md. Bailey, Edna Greenwood, 4 V 727 Marquam Bldg., Portland, Ore. 7 Baker, Charles Everett, Jr., XI 47 Elm St., Melrose H'l'ds, Mass. 310 Greene Ave., Brooklyn, N. Y. Baker, James McFarlan, 4 IV II 27 Clinton St., Watertown, N. Y. Baker, Joseph Mullin, II S 332 Delaware St., Syracuse, N. Y. Baker, Joseph Cheney, 4 177 Pleasant St., Winthrop, Mass. Baker, Ralph Hubert, 4 XIII 205 W. 106 St., New York, N. Y. Baldwin, Francis George, Φ B E, 6 II Balkam, Arthur Thomas, 6 XIII S 55 Green St., Jamaica Plain, Mass. 2 Cambridge Terrace, Allston, Mass. Ball, Herbert James, 6 II 5 III 7 Otisfield St., Roxbury, Mass. Ball, William Gilbert, Ballou, Edgar Clark, 6 IV S 83 Niagara St., Providence, R. I. 16 Harris Ave., Woonsocket, R. I. Ballou, Roland Hunnewell, ∑AE, 4 VI Banash, Ira James, VIII 5 Fayston St., Roxbury, Mass. Bancroft, Albert Fitch, XIII 93 Mt. Pleas. St., New B'd'fd, Mass. Banfield, Frederic E., Jr., Ф∑K, 7 19 Alden St., Newton Centre, Mass. Barber, Clarence Eugene, 6 II S 259 Laurel Hill Av., Norwich, Conn. 7 17 Maple Ave., Newton, Mass. Barber, Earl Huntington, I Barber, Raymond Jenness, 19 Maple Ave., Newton, Mass. 6 Ш 6 Barber, Waldo Austin, VIII S 21 Gardner St., Allston, Mass. Bardwell, Earl Smith, 6 III 122 Pine St., Florence, Mass. 7 Barker, Clinton Carter, II S 1361 Osgood St., N. Andover, Mass. 7 61 Henry Ave., Pittsfield, Mass. Barker, James Madison, 5 I S 274 Methuen St., Lawrence, Mass. Barlow, James Evans, Barnaby, George Albert, 4 Ш 25 Oak St., Peabody, Mass. 7 Barnard, Frederick Brainard, Jr., III S Groton, Mass. 5 III Melrose Highlands, Mass. Barnd, Jules Verne, 6 Barnes, Howard Parker, I 6 Carver St., Plymouth, Mass. 5 Barnes, James Phillips, VI Syracuse, New York. 4 II Waverley St., Belmont, Mass. Barrett, Charles Frederic, 5 V 89 Hancock St., Cambridge, Mass. Barrier, Edward Andre, 5 III S 1132 Murray Hill Av., Pittsburg, Pa. Barron, Edward Taylor, XX, 4 V S Reading, Mass. Barrows, Allan Hanscom, Barrows, Frederick William, 7 III 646 Gorham St., Lowell, Mass. Barrows, George Herbert, 5 IV S 99 Somerset Ave., Taunton, Mass. 6 5 Buffum St., Salem, Mass. Barry, John Gerald, III

Technique Name and Society Home Address Class Course Bartlett, Arthur Warren, '04 X 41 Monroe St., Newburyport, Mass. Bartlett, Charles Terrell, 6 I Fortress Monroe, Va. Bartlett, Edward Hale, 5 X 11 Parker St., Newburyport, Mass. 5 Bartlett, George Merrill, V S 68 St. Germain St., Boston, Mass. XIII 4 Bascom, Calvin Perry, 21 Champlain St., Rochester, N. Y. 6 VI Batchelder, Frederick Russell, Hampton, N. H. 4 III Bates, George Martin, Windham, Conn. 7 IX S 4 Otis Pl., Boston, Mass. Bates, Oric, Baton, Warren Ulysses Chase, 4 XI Whitingville, Mass. 5 XIII A Erie, Penn. Battles, Donald Raymond, Baum, Kenneth Michael, 4 V Claremont, N. H. Bayne, Alonzo Rudolph, 5 III S 182 Buckman St., Everett, Mass. Bearce, William Pitt, 6 I S 1 Yeaton Pl., Haverhill, Mass. Beard, Robert Stanley, 5 38 So. Beaver St., York, Pa. Beaton, William Alexander, 4 IV S 1 Juniper St., Roxbury, Mass. 5 Becker, William Frederick, VI 43 W. Washington St., Chicago, Ill. Bedford, Thomas Payne, B.S., ∑N, 5 VI Fayette, Mo. Bedortha, Alfred Calvin, 5 V S Windsor, Conn. 4 Bee, Albert Wilson, Jr., Cupertino, Cal. Beers, Harold William, 6 I 52 Cedar St., Taunton, Mass. 5 Beers, William Herbert, VII S Watertown, Conn. 5 29 Pleasant St., Fitchburg, Mass. Belding, Arthur Field, H Bell, Lowthian Lambert, 6 III Compton House, C., Winchester, Eng. Bell, Raymond Edwin, 6 II S Portland, Conn. 5 XIII S 433-3d St., Brooklyn, N. Y. Bender, Erwin Ferdinand, ⊕ Ξ, 6 I Benham, Frank Arthur, Mitton, Vt. Bennett, Frederick Gardner, 5 I Southampton, Long Island, N.Y. 5 Benson, Stuart Wells, X 160 West Canton St., Boston, Mass. Bent, Leavitt Newell, 6 X Framingham, Mass. P. O. Box 314. 5 Bent, Walter Gregory, X Framingham, Mass. 6 Bentley, Fred Harold, II Plainville, Conn. Bentley, William Perry, B.S., & BK, 4 VI Plainville, Conn. Berliner, Edgar Maurice, 6 II 1717 P St., N. W., Washington, D.C. II Bigelow, William Walter, 624 State St., Springfield, Mass. 4 166 Salem St., Boston, Mass. Biggi, Frederic Anthony, I 5 IV S 216 Institute St., Jackson, Tenn. Biggs, Asa Jones, ∑ A E, 5 Bill, Earle Gordon, A.B., Wolfville, Nova Scotia. 6 VI Bingham, Rutherfurd, Hotel Touraine, Buffalo, N. Y. Bisbee, Robert Calvin, A.B., AXP, 5 V S Bethel, Maine. Bissett, David Milton, 1 Laurel St., Charlestown, Mass. I Bixby, Llewellyn, B.L., Claremont, California. Bixby, William Peet, 5 II 55 Elm St., Woburn, Mass. Black, Albert Shirley, AY, 7 III 16 Hanover St., Lynn, Mass. Blackwell, Otter Bernard, 6 VI Bourne, Mass. Blake, Arthur William, A Y, 6 II S 54 Eastern Promenade, Portland, Me. Blake, Howard Colburn, 6 I S 184 West Canton St., Boston, Mass.

1905

Cechnique

Name and Society Home Address Class Course Blakeman, William Hildreth, A.B.'05 XIII S 148 W. 4th St., Mt. Vernon, N. Y. II Blatt, Herman Otto, S A E, 4 Lead, South Dakota. IV Blodgett, Albert Alden, 6 28 Greenville St., Roxbury, Mass. 6 3523 McGee St., Kansas City, Mo. Blodgett, Laurence Gould, 6 XII 407 Central St., Auburndale, Mass. Blodgett, Mildred Eleanor, Bloom, David, 6 V S 377 Broadway, So. Boston, Mass. Blount, Fernando Moreno, A Δ Φ, 5 IV Pensacola, Florida. 3245 Groveland Ave., Chicago, Ill. Blum, Bernard, VI Boardman, Wallace Eugene, 54 Pleasant St., Wakefield, Mass. V Boggs, Charles Reid, ∑ A E, 1719 G St., Washington, D. C. 4 III 1719 G St., Washington, D. C. Boggs, William Brenton, ∑ A E, 7 II Boles, Edwin Dexter, 60 Pleasant St., Marblehead, Mass. 7 Bonta, Edwin Witthaus, IV Frick Building, Pittsburgh, Pa. 6 Booth, Louis La Baum, II 26 Garfield Pl., Poughkeepsie, N. Y. Booth, Robert Harbison, Δ T Δ, 6 II S Linwood, Pa. V Bourne, Lyman Murphy, M. Sc., 4 Oxford, Ohio. Cincinnati, Ohio. VI Bouscaren, L. H. G., Jr., A. B., ΔΨ, 4 1800 Josephine St., Mt. Auburn, II 43 Gates St. Lowell, Mass. Bowen, Clarence Allen, 6 II 268 Main St., Groveland, Mass. Boynton, Augustus Swaine, 7 I Boynton, Guy Emerson, 18 Crafts Ave., Northampton, Mass. 5 I S 807 Forest Ave., Kansas City, Mo. Bradbury, Royall Douglas, 7 VIII 11 Dell Ave., Hyde Park, Mass. Bradley, John Clement, 4 II Bradley, Stephen, Webster St., West Newton, Mass. 6 I Breitzke, Charles Frederick, 282 Langl'y Rd., N'wt'n Cr., Mass. VIII Bridges, John Samuel, Jr., 15 S. Charles St., Baltimore, Md. Briggs, Ernest Nathaniel, 5 XIII S 31Rhode Island Ave., Newport, R. I. 4 IV Briggs, George Wright, 86 Winthrop St., Taunton, Mass. 5 II 53 C'n'w'lth Av., N'wt'n Cr., Mass. Broad, Charles Edward, 7 II 496 Cambridge St., Allston, Mass. Brock, Lester Wellington, 7 Brooks, Alfred Austin, II 2 Woburn St., Medford, Mass. 7 III S Hollidaysburg, Pa. Brotherlin, John, Brown, Harry Wheeler, 6 II 118 Brighton Ave., Allston, Mass. XIII Brown, Howard Hayes, 6 27 Elm St., Penacook, N. H. 5 Brown, Joseph Henry, Jr., II 72 Winthrop St., Charlestown, Mass. 4 III Newburyport, Mass. Brown, Moses, Jr., 6 Brown, Wilton Gardner, XII S Helena, Montana. Browne, Frank Atwood, 6 XIII 19 Spring St., Westboro, Mass. 5 Northport, N. S. Brownell, Frank Wilbur, B.A., 7 II S 747 Trumbull Ave., Detroit, Mich. Brownlee, Richard William, 7 4 Lincoln St., Haverhill, Mass. Bryant, George Henry, III S 1228 St. Paul St., Baltimore, Md. 6 Buck, Laurance Montjoy, X Φ, 5 III S Cerrillos, N. M. Buell, Lloyd Thomas, 5 III 23 Cheshire St., Jamaica Plain, Mass. Buff, Henry Arthur, 6 III 8 Mt. Vernon St., Salem, Mass. Buker, Harry William, 7 VI Garden City, Finney Co., Kansas. Bullard, Benjamin, 6 VI S North Attleboro, Mass. Burden, Frederick Evans,

Home Addres Name and Society Class Course 1423 So. State St., Syracuse, N. Y. '07 Burhans, Harry Newton, X III S 35 Cleveland Ave., Buffalo, N. Y. Burke, Fletcher H., A.M., Φ K Σ, 5 I S 759 Adams St., Chicago, Ill. Burke, Ralph Haney, 5 Burkhardt, Edward Arthur, XIII 6 Parley Vale, Jamaica Plain, Mass. Burleigh, Charles Randall, 53 Washington St., Malden, Mass. 6 Π 6 IV 37 Mill St., Dorchester, Mass. Burnap, George, Burnham, Alfred Worcester, 4 X 249 Bacon St., Waltham, Mass. 5 Burns, Walter, 25 Beacon St., North Adams, Mass. Burnyeat, William M. Brownlie, S 1 Wind. Ter., Princes Pk, Liv., Eng. 5 Burton, Eugene, III 1620 Floyd St., Louisville, Ky. 7 Burwell, Albert Lewis, 639 Main St., Winsted, Conn. II S 4 Orchard St., New Bedford, Mass. Bushnell, Leonard Theaker, B.A., Butler, Chester Mateland, Avon, Mass. VIII S Rockport, Mass. Butman, Chester Arthur, 140 Summer St., New Bedford, Mass. Butterfield, George, 5 South Dartmouth, Mass. Butts, Walter Matthews, Cabell, Thos. Breckinridge, Φ K Σ, VI S Bowling Green, Ky. 97 University Road, Brookline, Mass. Cady, William James, 6 VI 5 XIII 10 Bates Av., E. Weymouth, Mass. Cain, Walter Bicknell, 5 Caine, Sydney Atmore, X X, XIII 505 Equitable Bldg., Louisville, Ky. Caldwell, Statira Preble, A.B., 6 V S Braintree, Mass. Campbell, Charles, A.B., 4 XI S 5801 Stanton Ave., Pittsburg, Pa. Campbell, Edmund Schureman, 6 IV 4 Broad St., Freehold, N. J. Card, John Ford, A K E, 4 III 4850 Washington Ave., Chicago, Ill. Carey, Francis Vincent, II Percival St., Dorchester, Mass. Carhart, Clem Clare, Δ T Δ , 4 III S Salt Lake City, Utah. 5 Carhart, Frank Milton, A T A, 163 6th St., E. Salt Lake City, Utah. 6 Carr, Sidney Taylor, 18 Tahyer St., Quincy, Mass. 6 V S Beaumont St., New D'rch'ster, Mass. Carruth, Henry Pope, 5 VI Mayaguez, Porto Rico. Cartagena, Juan Jose, A.B., 7 9 Hawthorne St., Lynn, Mass. VI Carter, Benjamin Franklin, 6 I S 19 Grand St., Reading, Mass. Carter, Clarence Elmore, Carter, Pulaski, 6 II S 616 Linden St., Scranton, Pa. 4 II 6 Kensington St., Roxbury, Mass. Carty, Francis James, 4 Carty, Maurice Walter, II 6 Kensington St., Roxbury, Mass. 4 VIII Cary, Charles Reed, B.S., 621 W. North Ave., Baltimore, Md. 6 VI S Lee, Mass. Casey, George Austin, Cason, Everett Shackelford, Φ Γ Δ, 6 VI S Carrollton, Mo. 5 V S 44 Barton St., Boston, Mass. Castleman, Philip, 6 V S Island Pond, Vt. Causebrook, Henry Fitzgerald, 6 Caypless, Willis Smith, III S 1740 Williams St., Denver, Colo. 6 251 Pearl St., Cambridge, Mass. Cederholm, Anna Margaret, Cenedella, Attilo Horace, 7 115 East Main St., Milford, Mass. Cerf, Harry Herman, 4 II 361 S. Fairmount Av., Pittsburg, Pa. Chace, Franklin Murphy, 4 IV S 31 Wales St., New Dorchester, Mass. 6 XIII 41 Newport St., Dorchester, Mass. Chadbourne, Walter Everett,

Technique Chadwick, John Patten, 1905

Chadwick, Louis Robinson, Chaffee, Emory Leon, Chamberlin, Noel, Chandler, Edward, Chandler, Frederick Worthington, 6 XIII Chandler, Willard Dalrymple, Chapman, George Hobart, Charles, Evarts Wilson, Charlesworth, Harry Prescott, Chase, Charles Henry, Chase, Edward Sherman, Chase, Edwin Kirke, Chase, Eugene Preston, Chase, Howard Root, Cheney, Arthur Morton, Chess, Harvey Buchanan, Jr. Chesterman, Francis John, Chidester, Arthur Mercer, Chipman, Kenneth Gordon, Chivers, Norman Moore, A.B., Christiansen, Eugene Olaf, Christy, Earl George, Chuchian, Avedis Melkon, Clapp, Charles Horace, Clapp, Lucy J., Clapp, Prescott Jones, Clark, Arthur De Witt, ⊕ Ξ, Clark, Dana Wright, Clark, George Howard, S.B., Clark, Guido Roscoe Clark, Jesse Redman, Clark, Robert Keep, B.A., AKE, 5 Clark, Robert Sidney, Clarke, Lewis Cutler, Jr., Clarke, Ralph Scudder, Clarke, Walter Ayer, Clarke, Wm. Dexter, A.B., B @ II, 5 Clifford, Ernest Lowell, Clifford, Walter Baker, Cline, Max, Clingerman, Byron H., A.B., ΦK Ψ, 4 Clough, Leslie, Cobb, Andrew Randall, S.B., Cockrell, Clarence Marion, A.B., 6 Codd, Eliza, 4

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IV

Nantucket, Mass.

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VI Concord, Mass.

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VI 1290 Wash, St., W. Newton, Mass.

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I S 6 Louisburg Sq., Boston, Mass.

216 E. St. Joseph St., Louisville, Ky.

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VII S 246 Beacon St., Boston, Mass.

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	6	IV	
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Lincoln, Paul,	6	7.14	S 27 Russell St., Malden, Mass.
Lincoln, William Hamilton,	6	1	413 Cherry St., West Newton, Mass.
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Lindsly, Ben Edwin, Φ Γ Δ,	5	III	2718 Forest Ave., Kansas City, Mo.
Line, Frederick Chester,	6	III	S 50 Rowley St., Rochester, N. Y.
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Long, Arthur Channing, B.A.,	5	II	Sharon, Mass.
	5	XI	
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Lord, Harold,	6	IV	
Lord, Harry Chester,	7	II	22 Tower Ave., Lynn, Mass.
Lord, Robert Howard William,	5	X	56 Waverly Ave., Newton, Mass.
Lorenz, Edw. H., B.S., A XP, ΦB	K,5	II	96 Garden St., Hartford, Conn.
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	6		
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Lowe, Ralph Putnam,	7	X	그 가는 그 사람이 가게 되었다면 하는데
Lucas, Jose Goncalies,	7	***	Box 163, Para, Brazil
Luce, Byron Peakes,	7	VI	
Luce, Leroy Winthrop,	7	XIII	
Luce, Robert Francis,	5	I	그 그 그들은 사람들이 되었다면 하는 것이 되었다면 하는 것이 없는 것이 없는데 그렇게 되었다면 하는데 없다면
Lucey, William Sylvester,	7	VI	
Lueth, Clarence J.,	6	VI	City Hotel, Webster, Mass.
Lum, Elliott, Δ T Δ,	5	VI	Aberdeen, S. D.
Luquer, Lynch, A.B.,	4	IV	
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3 Victoria St., Dorchester, Mass.

19 Concord Sq., Boston, Mass.

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192 Summer St., Stamford, Conn.

II S 15 Cottage St., Norwood, Mass.

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IV

185 Jackson St., Lawrence, Mass.

Rowe, Henry Woodbury,

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Francis Leo,

Sellew, Francis Leo, Senger, Richard Warren, Severy, Frank Joseph, A.B., Seymour, Allan, Δ Ψ, Seyms, Robert Wyndham, AY, Shapira, Samuel, Shapleigh, Charles Henry, Sharp, Benjamin Karl, Shaw, Chester Roy, Shaw, George Herbert, Shaw, Howard Payne, Shaw, John Whitman, Shaw, Thomas, Sheafe, Calvin Richards, Shedd, Ray Elmer, Sheldon, William Adams, Sherlock, John George, Sherman, Andrew Bartlett, Jr., Sherman, Arthur Louis, Sherman, Henry Stoddard, Shurtleff, Ralph, Siebrecht, Henry Benjamin, Simmers, Clayton Miller, XX. Simmons, Herman Roswell, Simmons, John Edgar, Simonds, Clark David, XΨ, Simonds, Fred Washburn, Simons, Russell Bissell, Simpson, Guy Carleton, Simpson, Horace Gardner, Simpson, Willard Eastman, Skowronski, Stanislaus, Slack, Edgar Percival, Small, Gilbert, Small, Harry Alonzo Campbell, Smart, Charles Edwin, Smart, William Fuller, Smith, Albert Howell, Smith, Albert Loomis, Smith, Arthur Ditson, Smith, Charles H., B.L., A & P. Smith, Converse, Smith, Edgar Field, A.B., Smith, Edward Church, A.B., Smith, Edwin Lawrence, X Ф,

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107 Gainsboro St., Boston, Mass.

25 College St., Amherst, Mass.

VI S 2316 Grand Ave., Milwaukee, Wis.

1615 W. Genesee St., Syracuse, N.Y. Technique Name and Society Class Course Smith, Ernest Maxwell, AKE '06 II Smith, Horace Milliken, 4 II S Terre Haute, Ind. Smith, Lemuel David, XIII S Spokane, Wash. Smith, Leon Hills, Leominster, Mass. 6 Smith, Lillie Collamore, XII S 163 Huntington Ave., Boston, Mass. 5 Smith, Lowell Eldridge, III S 187 Chestnut St., Chelsea, Mass. Smith, Preston Morris, AKE, 5 X S 1615 W. Genesee St., Syracuse, N.Y. Smith, Sidney Alfred, 5 VI S 500 E. 6th St., Jamestown, N. Y. Smith, Theodore Lincoln, 5 II S Concord, Mass. 5 Snow, Edwin Bertrand, Jr., VI Medfield, Mass. 5 Snow, Frank L., Ph.B., A A P., VI 33 Rowley St., Rochester, N. Y. Snow, Norman L., Ph.B., Δ Ψ, XIII 276 W. 94th St., New York, N. Y. Sosman, Robert Browning, B.S., 4 VIII 204 Vine St., Chillicothe, Ohio Soule, Carlton Manson, VI 70 Putnam St., E. Weymouth, Mass. 6 Soule, Ralph Nelson, East Greenwich, R. I. Souther, John Glendon, A.B., 6 II S Allandale St., Jamaica Plain, Mass. 4 V Spalding, George Riddell, Newburyport, Mass. 5 Spalding, William Livingston, III 1039 Middlesex St., Lowell, Mass. 5 Spaulding, Henry Seville, XI S Ipswich, Mass. 7 498Watertown St., Newt'nville, Mass. Spear, Herbert Gay, 6 Spencer, Walter C., I S 162 Peace St., Providence, R. I. 6 Sperry, Ellsworth, VI S East Windsor Hill, Conn. 6 II S Saulito, Cal. Sperry, Simon Willard, Spilman, John Armistead, K A, 4 XIIIA G Richmond, Va. 6 VI 435 Main St., Melrose, Mass. Spinney, Samuel Rogers, Sprague, Ralph Cushman, 6 XI S 43 Irving St., So. Framingham, Mass. 7 Squire, Edmund Hincks, II 16 Magnolia St., Malden, Mass. 6 Stanley, Philip Bartholomew, II New Britain, Conn. 6 Stanton, Everett Cheselro, VI Sharon, Mass. 6 Staples, Walter Allan, VI S 130 Princess St., St. John, N. B. 7 IV Starkweather, Oscar Henry, Needham, Mass. 5 I Starr, Frank Charles, Canning, Nova Scotia 5 XIII 862 South St., Roslindale, Mass. Stebbins, Roger Pierce, 5 VI 255 Steuben St., Brooklyn, N. Y. Steel, Edward Thomas, 2d, $\Delta \Psi$, 4 IV 4110 N. 11th St., St. Louis, Mo. Steideman, Theodore William, 5 V S 75 Congress St., Bradford, Pa. Steinberger, Emil, 6 VII 692 Glenwood Ave., Cincinnati, O. Steinharter, Edgar Clifford, 4 XIII 1217 Warnock St., Philadelphia, Pa. Steinrok, Charles Leonard, 6 Stephens, Albert Leslie, III 53 Ellery St., Cambridge, Mass. 4 I Stetson, Edward Everett, Mattapoisett, Mass. 5 VI Stetson, Harold Clapp, Φ Γ Δ Walpole, Mass. 6 X S St. Albans, Vt. Stevens, Carl Colton, 4 Stevens, Henry Warren, VI South Gardner, Mass. Stevens, Herbert Alfred, II 142 Cedar St., Haverhill, Mass. 4 Stevens, Howard Leslie, XIII 11 Everett St., Middleboro, Mass. 5 Stevens, Samuel Spaulding, III S 11 Liberty St., Salem, Mass. Stevenson, Albert Fletcher, II 41 Princeton St., East Boston, Mass.

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The Technology Club for furnishing them with a place of meeting, and the many whose drawings, for one reason or another, we were unable to use.

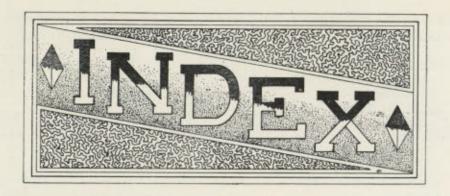
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HAROLD RICKETSON SWEETSER, '05 Died June 15, 1903

THOMAS BELL WATSON, '06

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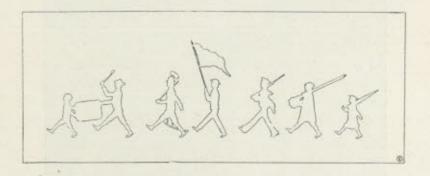
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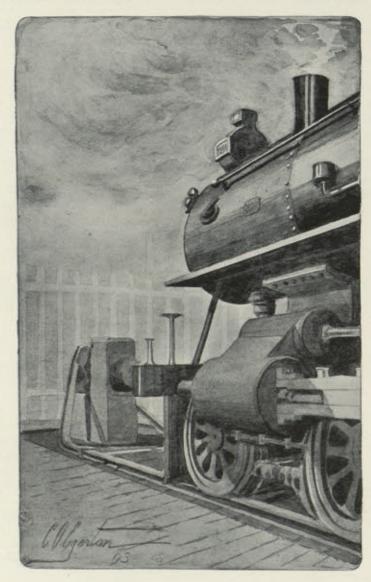
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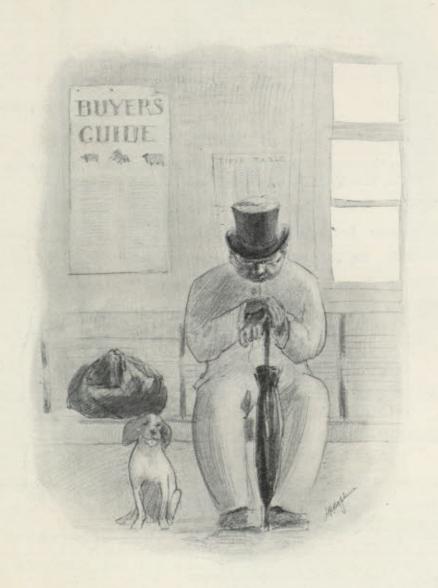
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ALKALIES: Solvay Process Co., Solvay, N. Y.

ANILINE COLORS: H. A. Metz & Co., New York; Kuttroff, Pickhardt & Co., New York; New York & Boston Dyewood Co., Boston.

BANKERS: National Shawmut Bank, Boston; Old Colony Trust Co., Boston.

BATTERIES: Leclanche Battery Co., New York.

BELTING: Bay State Belting Co., Boston; Schultz Belting Co., St. Louis.

BLOCKS: Boston & Lockport Block Co., Boston.

Boilers: Atlantic Works, East Boston; Roberts Iron Works, Cambridge; Edward Kendall & Sons, Cambridgeport.

BOOKS: Old Corner Book Store, Boston; A. D. Maclachlan, Boston; C. & G. Merriam, Springfield, Mass.

BORING TOOL: Armstrong Bros. Tool Co., Chicago; Morse Twist Drill and Machine Co., New Bedford, Mass.

Brass and Bronze Supplies: J. H. MaCafferty & Co., Boston; C. E. Rogers, Boston.

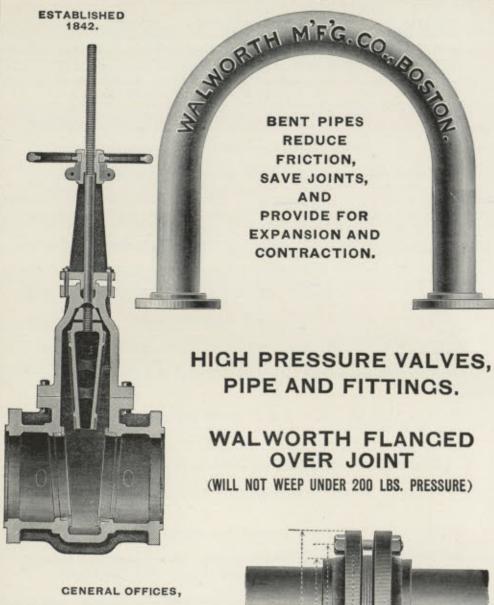
BRIDGE CONSTRUCTION: American Bridge Co., New York.

BUILDING: Frank B. Gilbreth, Boston; L. D. Willcutt, Boston.

CABLES: National Conduit and Cable Co., New York; A. Leschen & Sons Rope Co., St. Louis; Trenton Iron Works, Trenton, N. J.

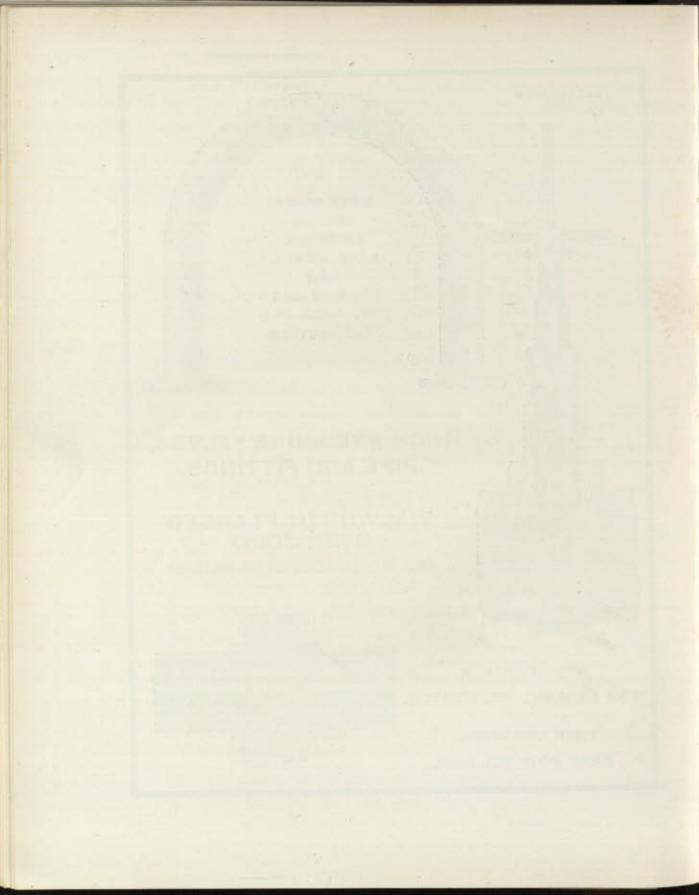
CAFES: Oak Grove Creamery Co., Boston.

Castings: Homer F. Livermore, Boston; American Tool and Machine Co., Boston.



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1905

CHEMICALS: Baker & Adamson Chemical Co., Easton, Pa.; Cochrane Technique Chemical Co., Boston; Kuttroff, Pickhardt & Co., New York; Roessler & Hasslacher Chemical Co., New York; Eimer & Amend, New York; Merrimac Chemical Co., Boston; Avery Chemical Co., Boston; H. A. Metz & Co., New York; Solvay Process Co., Solvay, N. Y.; Schoellkopf, Hartford & Hanna, Buffalo, N. Y.

CHEMICAL APPARATUS: Eimer & Amend, New York.

CHEMICAL ENGINEERS: Henry Carmichael, Ph.D., Boston.

CHEMICAL TESTING LABORATORIES: Pittsburgh Testing Laboratory, Pittsburgh, Pa.

CLOTHING: George H. Lane, Boston.

COAL: Curran & Burton, Boston.

COAL HANDLING MACHINERY. (See Conveying Machinery.)

CONDUITS: National Conduit & Cable Co., New York.

CONTRACTORS: Frank B. Gilbreth, Boston.

CONVEYING MACHINERY: John A. Mead Mfg. Co., New York; Jeffrey Mfg. Co., Columbus, O.; Rawson & Morrison Mfg. Co., Cambridge; A. Leschen & Sons Rope Co., St. Louis; Trenton Iron Works, Trenton, N. J.

CORDAGE: Samson Cordage Works, Boston.

CORE OVENS: Millett Core Oven Co., Brightwood, Mass.

COTTON MACHINERY: Textile Finishing Machine Co., Providence, R. I.

DRAUGHTING INSTRUMENTS: A. D. Maclachlan, Boston; L. S. Starrett Co., Athol, Mass.

DRY GOODS: C. F. Hovey & Co., Boston.

DRILLS AND DRILLING MACHINERY: Morse Twist Drill Co., New Bedford, Mass.; Hill, Clark & Co., Boston.

DYES: Kuttroff, Pickhardt & Co., New York; New York & Boston Dyewood Co., Boston; H. A. Metz & Co., New York; Schoellkopf, Hartford & Hanna, Buffalo.

Massachusetts Institute of Technology; EDUCATIONAL INSTITUTIONS: American School of Correspondence, Chicago; Chauncy Hall School, Boston.

Technique Electrical Engineers: Stone & Webster, Boston.

1905

ELECTRICAL GENERATORS AND MOTORS: Ridgeway Dynamo and Engine Co., Ridgeway, Pa.; Holtzer-Cabot Electric Co., Boston (Brookline), Mass.

ELECTRICAL SUPPLIES: Simplex Electrical Co., Boston; Weston Electrical Instrument Co., Newark, N. J.

ELEVATORS: Morse, Williams & Co., Boston.

EMERY WHEELS: Norton Emery Wheel Co., Worcester, Mass.

Engines: Vilter Mfg. Co., Milwaukee; Wis.; Otto Gas Engine Co., Boston.

Engineers: Frank B. Gilbreth, Boston; American Bridge Co., New York; Dean & Main, Boston; Densmore & LeClear, Boston; French & Bryant, Boston; G. H. Barrus, Boston; Arthur F. Gray, Boston; Huey Brothers, Boston; Henry Carmichael, Ph.D., Boston.

Engineering Journals: Engineering Record, New York.

ENGRAVING: Buxton & Skinner, St. Louis; Chas. H. Elliott Co., Philadelphia; Electric City Engraving Co., Buffalo; American Bank Note Co., New York.

EXPRESS AND MOVING: Prescott's Express, Boston.

FIRE BRICK: Evens & Howard Fire Brick Co., St. Louis.

FLAGS: Bent & Bush, Boston.

FLORISTS: S. Hoffman, Boston.

FOUNDRIES: Textile Finishing Machine Co., Providence, R. I.

FOUNDRY EQUIPMENT: Millet Core Oven Co., Brightwood, Mass.

FOUNDRY FACING: Springfield Facing Co., Springfield, Mass.

FOUNTAIN PENS: Conklin Pen Co., Toledo, Ohio; Adams, Cushing & Foster, Boston.

FORGINGS: National Tube Co., McKeesport, Pa.

FUEL ECONOMIZERS: Green Fuel Economizer Co., Matteawan, N. Y.

FURNISHING GOODS: C. F. Hovey & Co., Boston.

GAS APPARATUS: United Gas Improvement Co., Philadelphia.

GAS ENGINES: Otto Gas Engine Co., Boston.

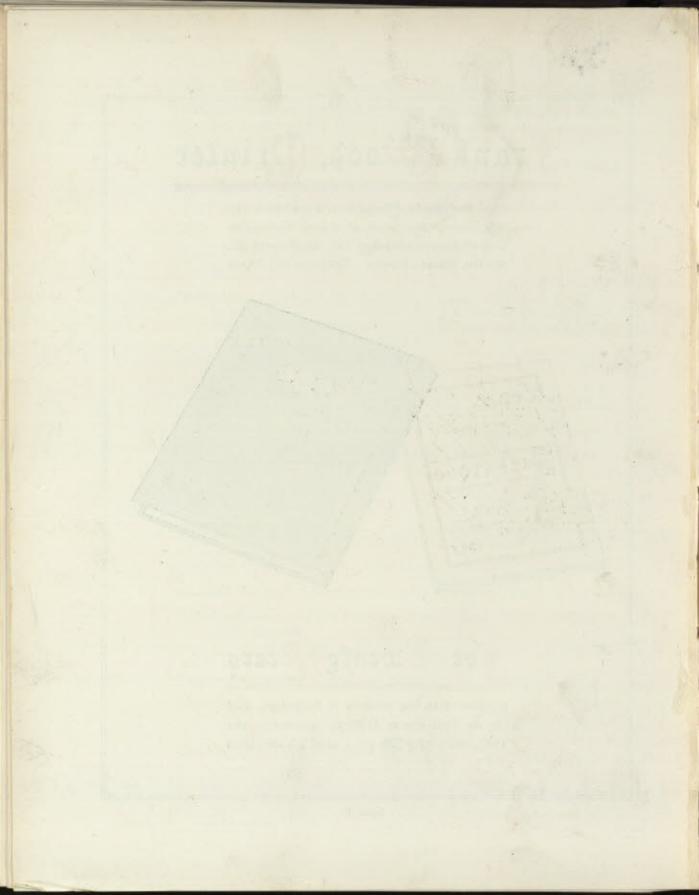
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PLATINUM: Eimer & Amend, New York.

PRINTING: Frank Wood, Boston; Buxton & Skinner, St. Louis; W. B. Libby, Boston.

PUBLICATIONS: The Technology Review, Boston; Engineering Record, New York.

RAILROADS: Boston & Maine R. R.; Boston & Albany R. R.; Texas & Pacific Ry.; Missouri Pacific Ry.; Wabash Ry.; St. Louis, Iron Mountain & Southern Ry.

RECORDING PRESSURE GAUGES: United Gas Improvent Co., Philadelphia.

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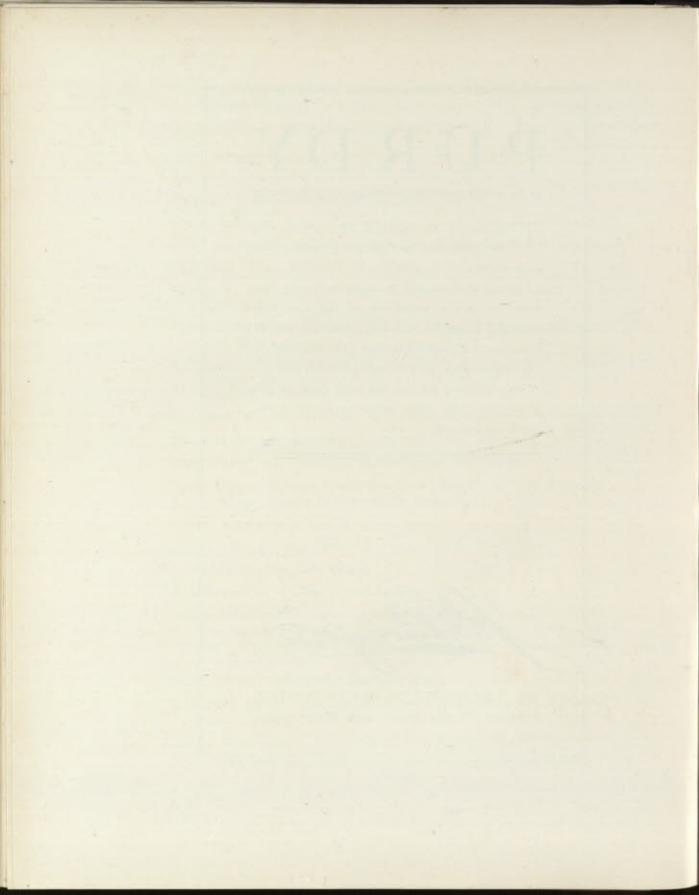
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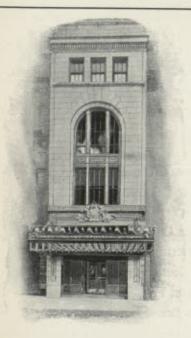
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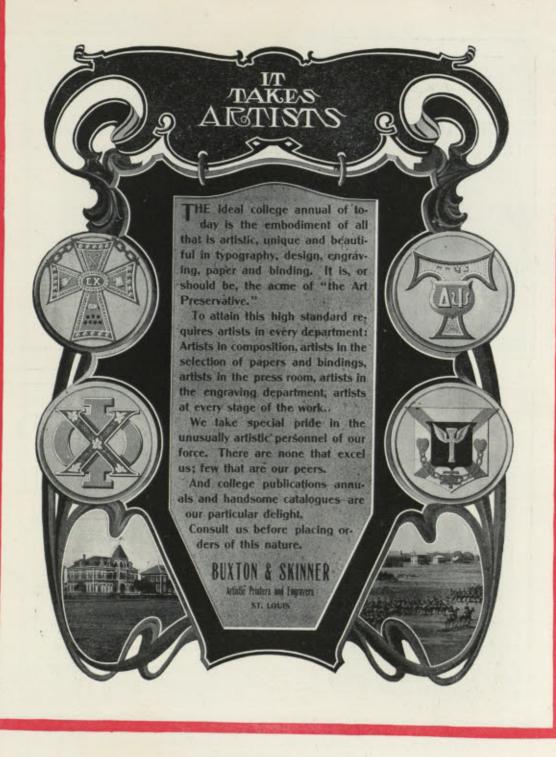
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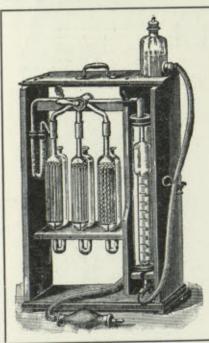
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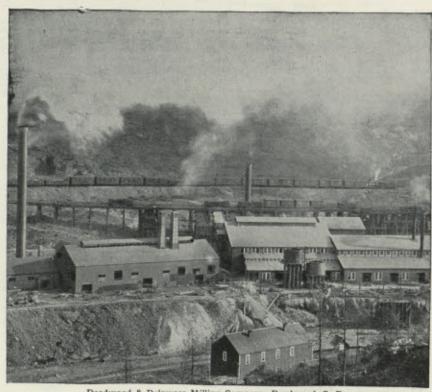
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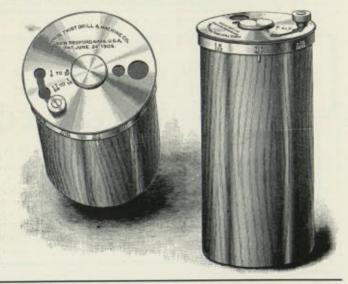
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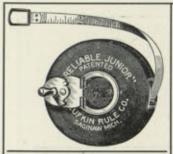
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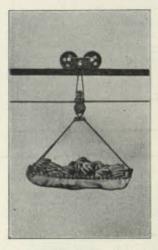
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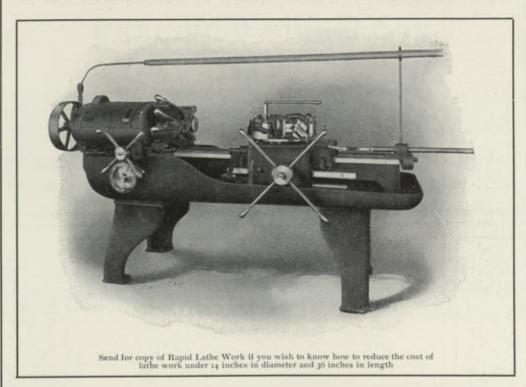
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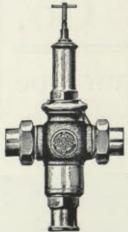
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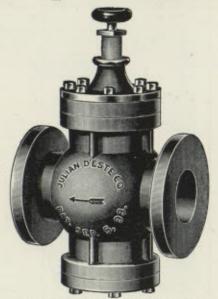


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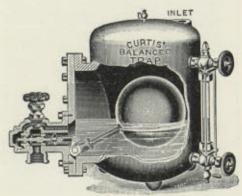
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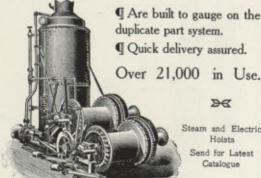
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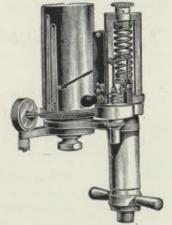
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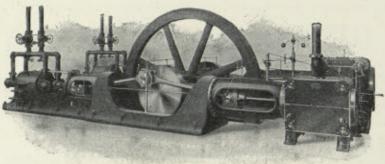
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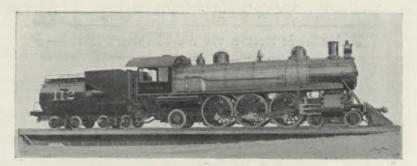
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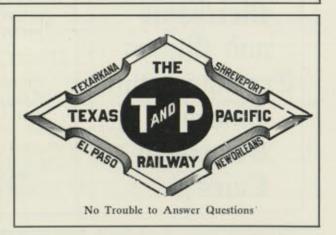
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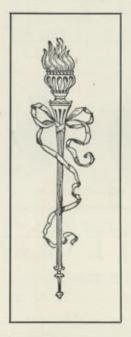
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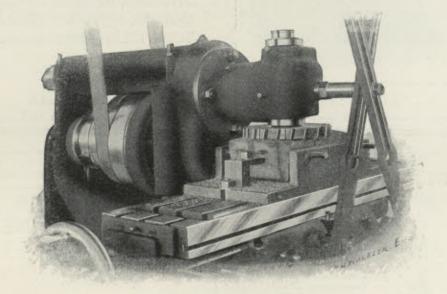
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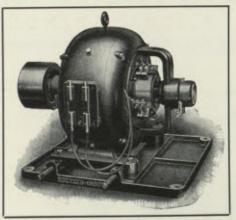
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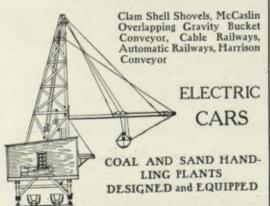
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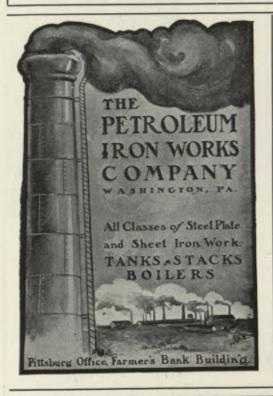
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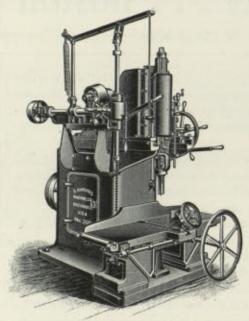
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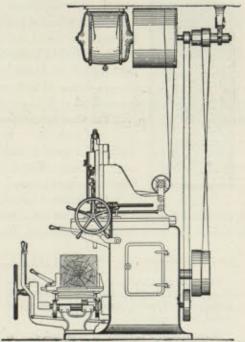
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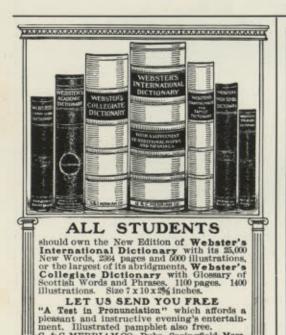
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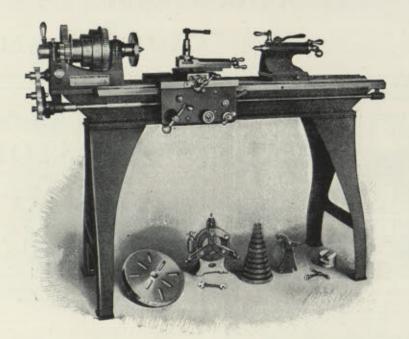
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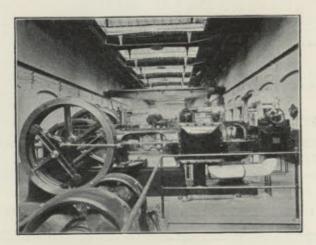
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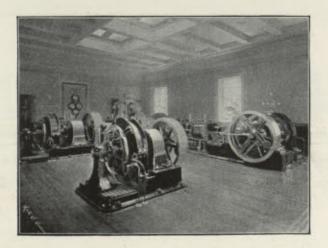
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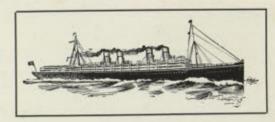
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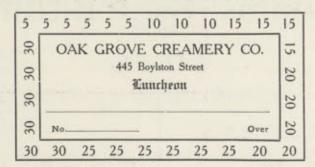
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