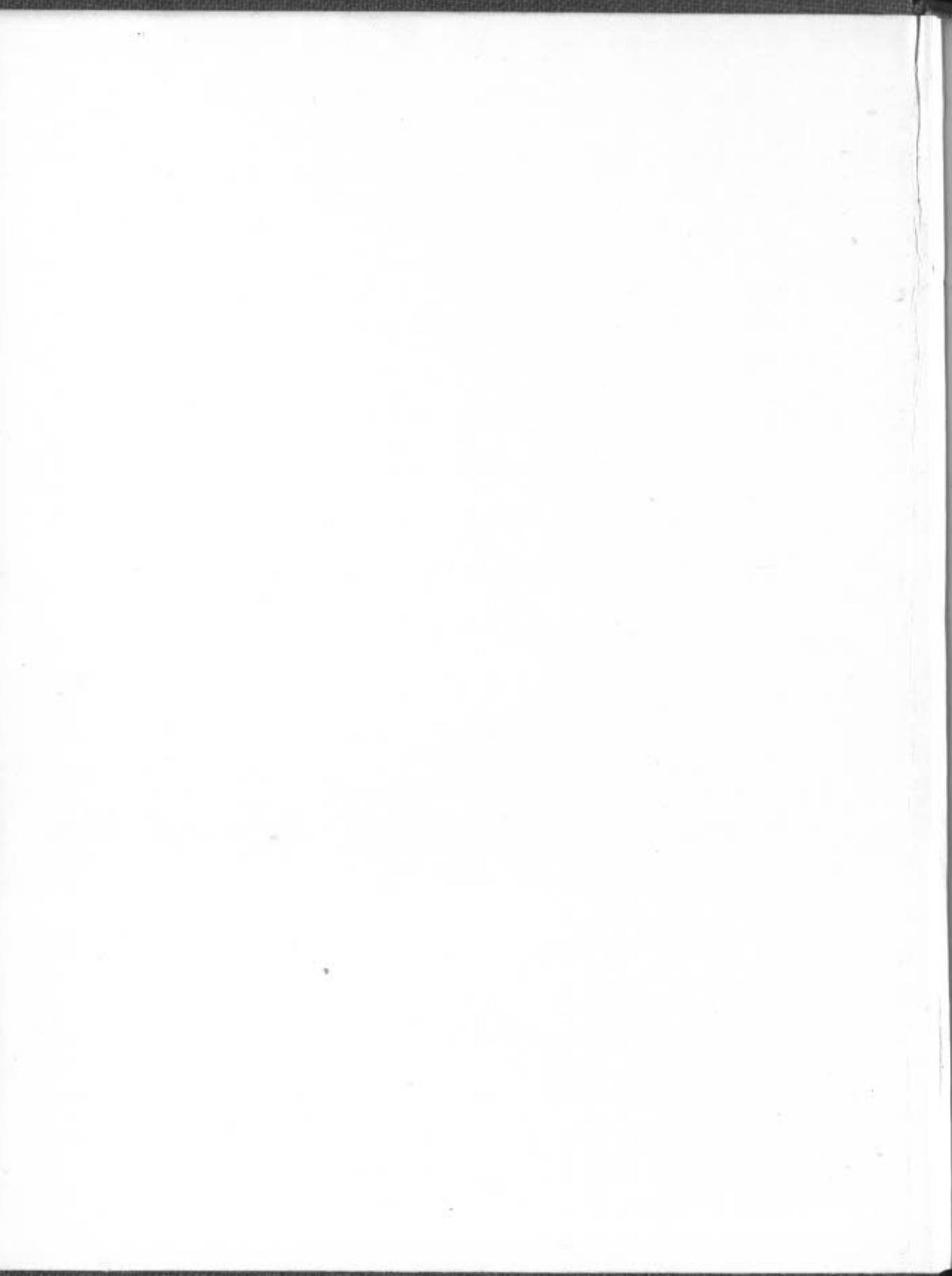
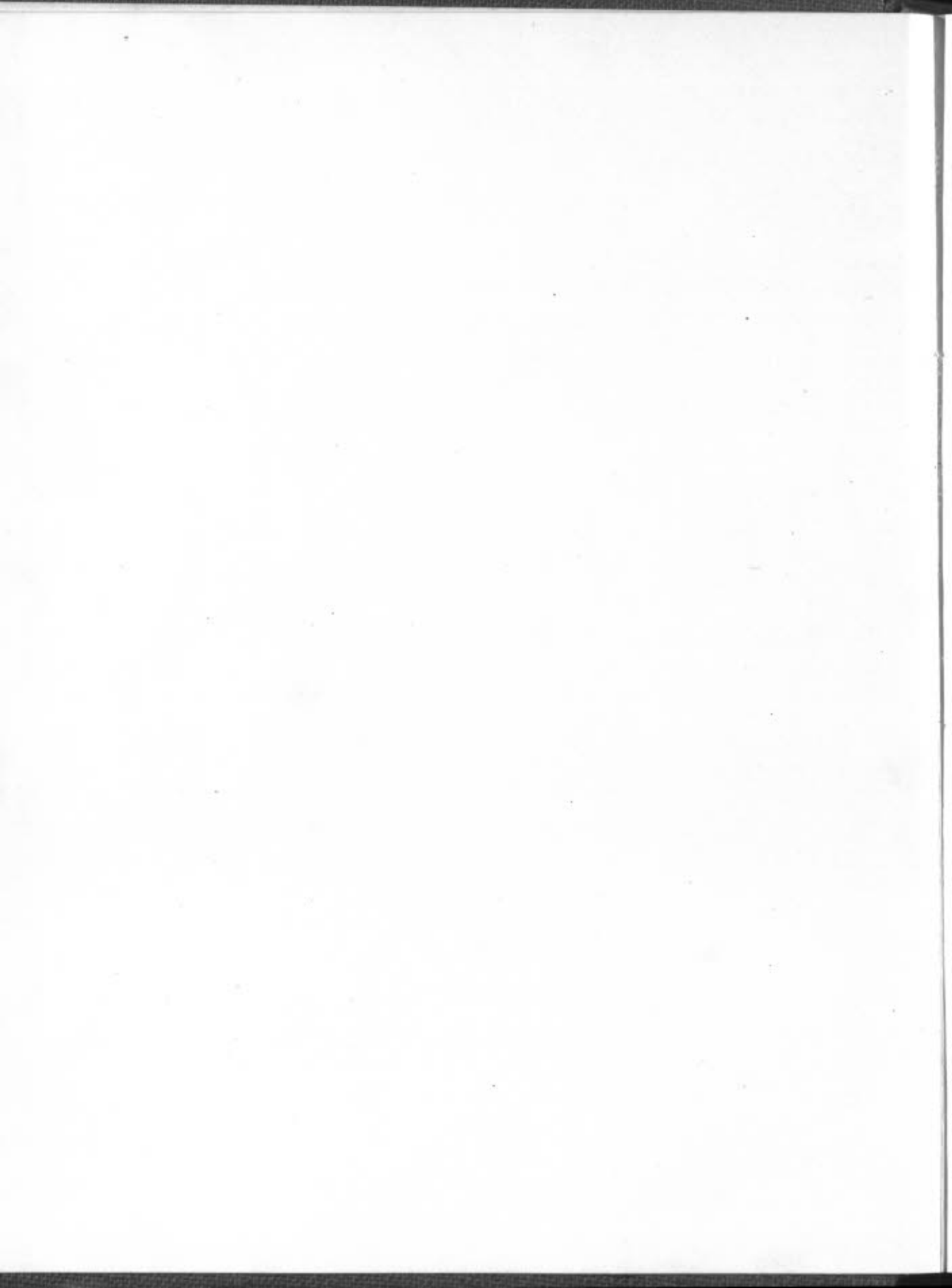


# TECHNIQUE MDCCXCVII



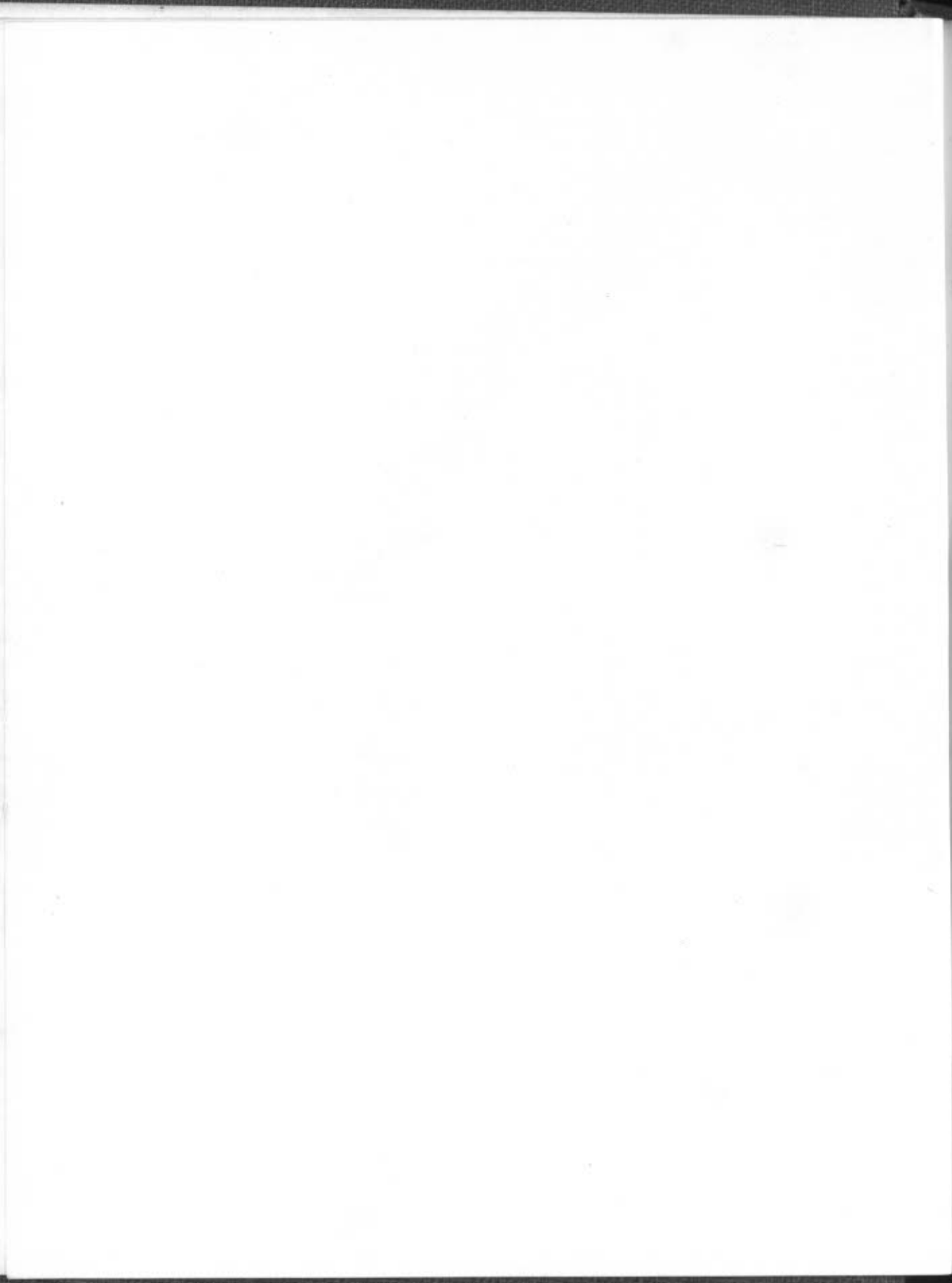


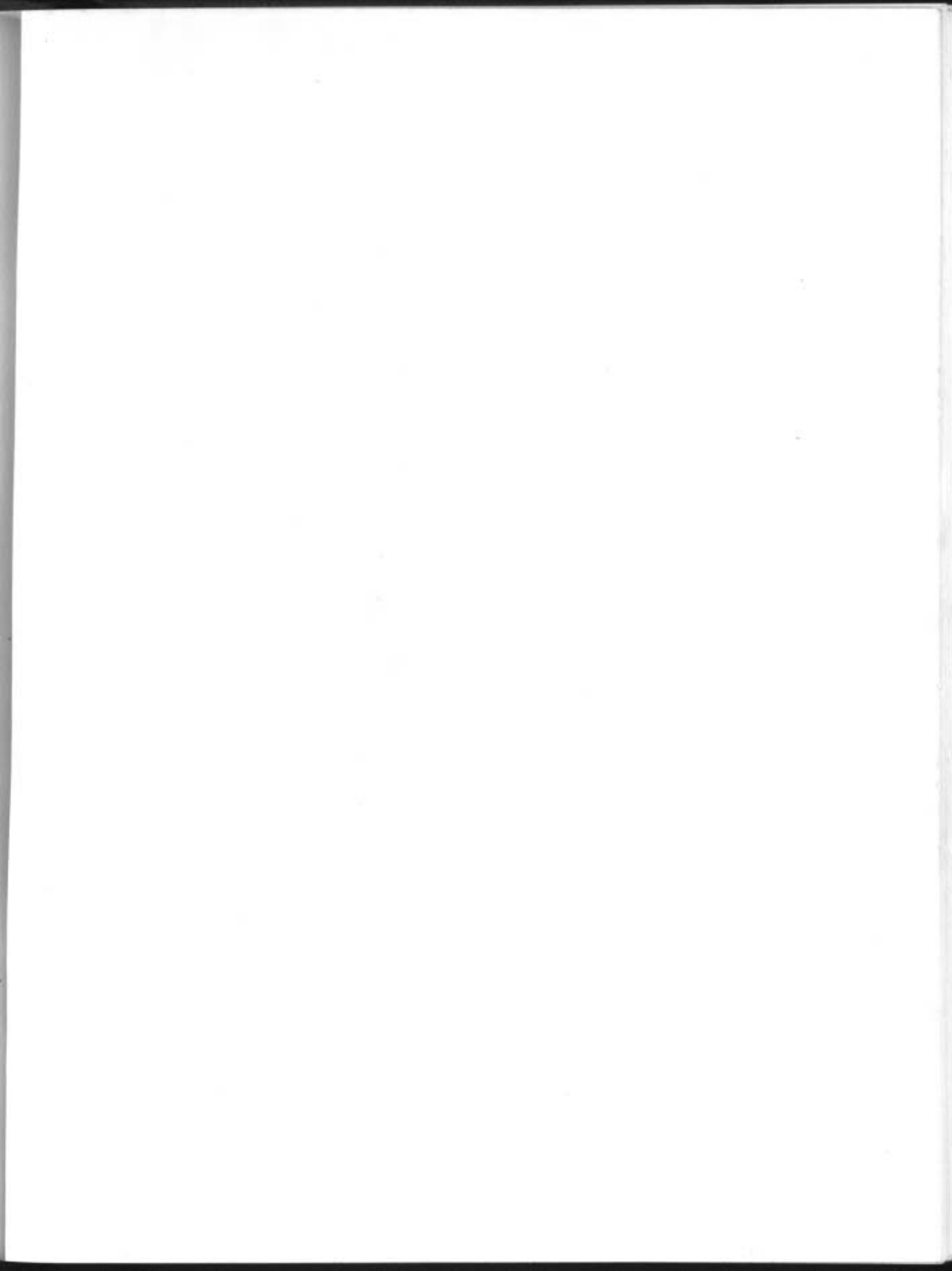














Henry Saltanstall



# TECHNIQVE MDCCCXCVII

PVBLISHED BY THE  
JVNIOR CLASS  
OF THE  
MASSACHVSETTS INSTITVTE  
OF TECHNOLOGY



VOL. XI  
BOSTON MDCCCXCVI

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THE TECHNIQUE BOARD OF NINETY-SEVEN.

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### Dedication.

Whatever else you may deny, to this you will agree,  
Technology has long possessed  
A happy faculty;  
The faculty of winning men who spend their powers that she  
May spread her fame through all the land  
And loved and honored be.  
Unto these earnest, faithful men, our college owes her fame,  
Their loyal, loving labor has  
Achieved her noble name.  
No part of selfish honor have they ever tried to claim;  
They gladly gave their all to Tech  
When some gave only blame.  
In grateful recognition of their work for M. H. T.,  
With thanks for all they've done for us  
And for Technology,  
Respectfully we dedicate whatever good may be  
In this Technique, to Tech's best friend,  
Her "Happy Faculty."



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THE NINETY-SEVEN TECHNIQUE BOARD, realizing that further attempts at concealment are useless, confesses to the publication of the eleventh volume of our annual. Appreciating fully the enormity of our crime, we beg to be allowed to say a few words in our own defense before sentence is passed.

We have resolutely resisted the temptation to make the book larger, and have spared no efforts to reduce it to a more convenient size. To accomplish this end we have omitted many subjects that have been thoroughly treated in previous TECHNIQUES, believing that it is better to refer our readers to the original source than to reproduce them here.

Thanks to Mrs. Saltonstall we are able to publish a portrait of her distinguished husband, throughout his life one of Technology's truest friends and staunchest supporters. That we are able to give Tech men an account of Mr. Saltonstall's life and work for the Institute is due to the great kindness of General Walker, to whom the Board is indeed grateful for this valuable contribution.

To all who have helped us in our labors we extend our heartiest thanks. Especial acknowledgment is due to Dr. Tyler and his assistants, whose kind aid made much of the statistical work of the book possible.

By the resignation of Arthur Cleveland Nash and John Sanford Humphreys, who left Technology this fall to study abroad, the Board lost two earnest and enthusiastic workers. To their many contributions and valuable suggestions we feel that we owe much.

We have tried to amuse, not to abuse, and much of the pleasure of our year's work will be spoiled if any of our innocent jests are not received in the spirit in which they are meant.

Now, with the hope that you will "be to our virtues very kind" and "high gravel blind" to our faults, we humbly plead "first offense," and ask for the mercy of the court.



1895-1896.

APRIL, 1895.

14. Beginning of Junior Week.
15. German Plays given by Der Deutsche Verein in Copley Hall.  
Photographic and Architectural exhibits opened in the Architectural Building.  
Technique, Volume X., issued.
16. Junior Promenade, Pierce Hall.  
First regular meeting of the Board of Editors of *TECHNIQUE* '97.
17. Annual Spring Concert of the Glee and Banjo Clubs in Huntington Hall.  
Governor Greenhalge signed the bill passed by the Massachusetts Legislature, which gives Technology twenty five thousand dollars yearly, for six years.  
Reception of the Board of Editors of "The Tech" in "The Tech" office.
18. French Plays given by L'Avenir, in Copley Hall.

MAY.

2. Meeting of the Walker Club: the English Plays proposed.
3. French Plays repeated in Copley Hall.
5. *TECHNIQUE* '97 offered one hundred and ten dollars for contributions, advertisements, etc.
6. Class Championship Games on Holmes Field. Championship won by Class of '96.
11. Competitive Drill between the Ninety-Eight Cadet Battalion and the Harvard Rifles. Company Drill won by M. I. T., Individual Drill won by Harvard.
15. Sophomore-Freshman Baseball Game. Won by Ninety-Seven; score, 16-6.
18. N. E. I. A. A. Meet at Worcester. Dartmouth first, Brown second, Amherst third.
24. Alumni Reception tendered to members of the Faculty and Seniors at Young's Hotel.
25. Second Concert of the Glee and Banjo Clubs in Huntington Hall.
26. Baccalaureate Sermon by Dr. Lindsay, of St. Paul's, at Trinity.
27. Ninety-Five Class Day exercises.  
Engineering Building opened for inspection.  
Senior Assembly, Pierce Hall.
28. Graduating Exercises, Huntington Hall.

JUNE.

5. Meeting of the Corporation.
15. Beginning of the First Annual Cruise of the Technology Yacht Club.
- 25-26. First Entrance Examinations.

JULY.

1. Ending of the cruise of the Yacht Club.

SEPTEMBER.

30. The thirtieth year of the Institute opens with 1,187 registered students.

#### OCTOBER.

4. Annual Address to the Freshman Class by President Walker, in Huntington Hall.
5. Y. M. C. A. Reception, in Association Hall.
12. Election of officers, Class of Ninety-Six. Charles G. Hyde chosen President.
16. Tennis Association Reorganized. Two weeks' Tournament held. Winners: A. W. Jackson, '97, first; W. Page, '97, second.
21. Election of officers, Class of Ninety-Eight. W. M. Hall chosen President.
25. Election of officers, Class of Ninety-Seven. W. O. Sawtelle chosen President.
29. Election of officers, Class of Ninety-Nine. E. H. Hammond chosen President.

#### NOVEMBER.

9. Cross-Country Run. Cummings, '96, first; Wise, '97, second; Osgood, '97, third.
19. Sophomore-Freshman Cane Rush and Football Game on South End Grounds. Rush won by Ninety-Eight; score, 23 hands to 7. Game won by Ninety-Nine; score, 16 to 0.

#### DECEMBER.

14. First performance of the Technology Minstrels, in Huntington Hall, for the benefit of the Technology Baseball Association.
20. Dinner of the Senior Class University Club. Toastmaster, Edward Arthur Baldwin.
21. Annual Indoor Class Championship Games, in Gymnasium.

#### JANUARY, 1896.

8. Election of Class Day Officers, Class of Ninety-Six. B. Hurd chosen First Marshal.
10. Election of Senior Portfolio Committee.

#### FEBRUARY.

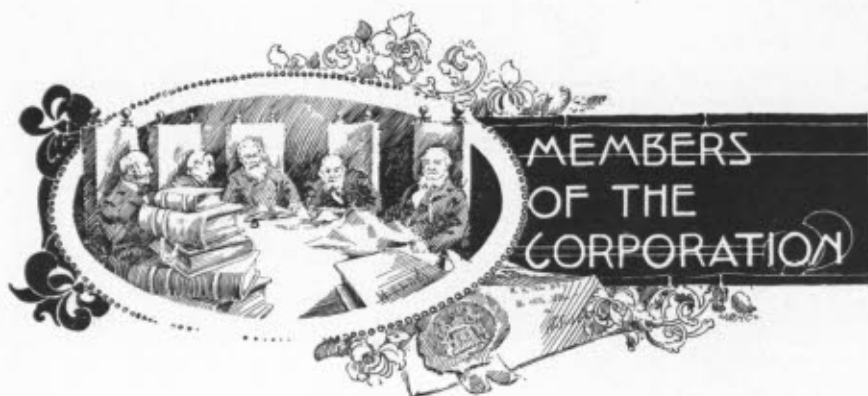
21. Dinner of the Freshman Class, Young's Hotel. Toastmaster, Clarence Renshaw.

#### MARCH.

2. Election of TECHNIQUE, '98, Electoral Committee.
7. Dinner of the Sophomore Class, Young's Hotel. Toastmaster, Charles E. A. Winslow.
12. Completion of the election of the Board of Editors of TECHNIQUE, '98. Raymond S. Willis chosen Editor in Chief.
14. Annual Open Scratch Games of the M. I. T. A. C. in the Gymnasium.  
Dinner of the Junior Class, Young's Hotel. Toastmaster, Allen W. Jackson.
24. First lecture for the benefit of L'Avenir and Der Deutsche Verein, "Le Misanthrope De Molière," by Professor Van Daell.
27. Second L'Avenir and Deutsche Verein lecture: "Richard Wagner's Ring Des Nibelungen," by Professor Dippold.
31. Third L'Avenir and Deutsche Verein lecture: "The Emperor William I. as a man," by Mr. Blachstein.

#### APRIL.

5. Opening of Junior Week.
6. Fourth L'Avenir and Deutsche Verein lecture: "Goethe's Hermann and Dorothea, and Evangeline, and Courtship of Miles Standish," by Professor Vogel.  
Annual Spring Concert of the Glee, Mandolin, and Banjo Clubs in Huntington Hall.
8. TECHNIQUE, Volume XI., issued.
9. Junior Promenade in Pierce Hall.
10. Reception of the Board of Editors of "The Tech" in "The Tech" office.  
Technology Theatricals, under the management of the Walker Club, in Copley Hall.



*President.*

FRANCIS A. WALKER.

*Secretary.*

FRANCIS H. WILLIAMS.

*Treasurer.*

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 JOHN R. FREEMAN.  
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 WILLIAM H. LINCOLN.  
 J. B. SEWALL.

*On the part of the Commonwealth.*

HON. ROGER WOLCOTT, Acting Governor.  
 HON. WALBRIDGE A. FIELD, Chief Justice of the Supreme Court.  
 HON. FRANK A. HILL, Secretary of the Board of Education.





*President.*

FRANCIS A. WALKER.

*Treasurer.*

GEORGE WIGGLESWORTH.

*Secretary.*

HARRY W. TYLER.

*Librarian.*

ROBERT P. BIGELOW.

*Bursar.*

ALBERT M. KNIGHT.



## PROFESSORS.

FRANCIS A. WALKER, PH.D., LL.D., *President*.  
Amherst College, A. K. E., Φ. B. K.

A.B., Amherst, '60; A.M., Amherst, '63, Yale, '73; Ph.D., Amherst, '75, Halle, '94; LL.D., Yale, '82, Amherst, '82, Harvard, '83, Columbia, '87, St. Andrews, '88, Dublin, '92.

In United States military service, 1861-65; Instructor Williston Seminary, 1865-68; Editor Springfield (Mass.) Republican, 1868; Chief Bureau of Statistics, Washington, 1869; Superintendent Ninth Census, 1870-72; Commissioner of Indian Affairs, 1872; Professor of Political Economy and History, Sheffield Scientific School, 1873-81; Honorary member, Statistical Society of London, 1875; Chief, Bureau of Awards, Philadelphia, 1876; Member, School Committee, New Haven, 1877-80; Member, Board of Education, Connecticut, 1877-81; Lecturer, Johns Hopkins University, 1877-79; United States Commissioner, Monetary Conference at Paris, 1878; Member, National Academy of Sciences, 1878 (Vice President since 1890); appointed Railroad Commissioner of Connecticut, 1879; Superintendent Tenth Census, 1879-81; President, Massachusetts Institute of Technology, since 1881; President, American Statistical Association, since 1882; Lecturer in Harvard University, 1882-84, 1895-96; Member, Massachusetts Historical Society, 1883; Member, Massachusetts Board of Education, 1882-90; Chairman, Massachusetts Topographical Survey Commission, 1884-90; Member, School Committee of Boston, 1885-88; Member, International Statistical Institute, 1885 (Honorary member and President Adjunct, 1893); President, American Economic Association, 1885-92; Honorary member, American Society of Mechanical Engineers, 1886; Senator of the Phi Beta Kappa, since 1886; Correspondent, Central Statistical Commission of Belgium, 1888; Corresponding member, California Academy of Sciences, 1888; Officer of the French Legion of Honor, 1889; President, Military Historical Society of Massachusetts, since 1891; Member, Art Commission of Boston, since 1890; Member, Park Commission of Boston, since 1890; declined appointment as United States Commissioner to Monetary Conference at Brussels, 1892; Honorary Member, Literary and Philosophical Society of Manchester (England), 1892; Vice President, American Society for the Promotion of Profit Sharing, since 1892; Chairman of Massachusetts Board of World's Fair Managers, 1892-94;

Vice President, Society of Naval Architects and Marine Engineers, since 1892; Correspondent of the Institute of France, 1893; Corresponding member, British Association for the Advancement of Science, 1894.

Author of the Statistical Atlas of the United States, 1874; the Indian Question, 1874; the Wages Question, 1876; Money, 1878; Money, Trade, and Industry, 1879; Political Economy, 1883; Land and its Rent, 1883; History of the Second Army Corps, 1886; First Lessons in Political Economy, 1889; Life of Gen. W. S. Hancock, 1894; The Making of the Nation, 1895; also, Reports on the Commerce and Navigation of the United States, 1868-70; Indian Affairs, 1872; and the Censuses of 1870 and 1880. Addresses on Economic, Statistical, Educational and Military subjects. Articles in Lalor's Cyclopædia of Political Science, Encyclopædia Britannica, Johnson's Cyclopædia, the Century Magazine, Scribner's, Atlantic Monthly, Princeton Review, Harper's Magazine, Lippincott's, North American, Yale Review, Quarterly Journal of Political Science, Journal of Political Economy, International Review, Forum, Quarterly Journal of Economics, Proceedings of American Economic Association, Journal of American Statistical Association, Journal of American Social Science Association, Technology Quarterly, etc.

Residence, 237 Beacon Street.

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

Harvard University, '51.

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

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

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

Residence, High Street, Brookline.

**GEORGE A. OSBORNE, S.B., *Professor of Mathematics.***

Harvard S.S., '60.

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

Author of Examples of Differential Equations (1886), Differential and Integral Calculus (1891), etc. Residence, 11 Beacon Street.

**JAMES M. CRAFTS, S.B., *Professor of Organic Chemistry.***

Harvard S. S., '58.

Professor of Chemistry, Cornell, 1868-70; Professor of Chemistry, Massachusetts Institute of Technology, 1870-80 (nonresident, 1874-80), 1892; Member National Academy of Sciences, 1872.

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

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

Residence, 59 Marlboro Street.

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

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

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

Residence, 32 Eliot Street, Jamaica Plain.

WILLIAM H. NILES, Ph.B., A.M., *Professor of Geology and Geography.*  
Yale S. S., '67.

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

Professor of Physical Geography, Massachusetts Institute of Technology, 1871; Professor of Geology and Geography, Massachusetts Institute of Technology from 1878; Lecturer on Geology, Wellesley College, 1882; Professor of Geology, Wellesley College, 1888; President of the Boston Society of Natural History from 1892; President of the New England Meteorological Society from its organization, 1884.

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

Residence, 10 Linden Street, Cambridge.

CHARLES R. CROSS, S.B.

*Thayer Professor of Physics and Director of the Rogers Laboratory.*

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

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

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

Residence, Upland Road, Brookline.

GAETANO LANZA, C.E., *Professor of Theoretical and Applied Mechanics.*  
University of Virginia, '70.

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

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

Residence, 22 West Cedar Street.

GEORGE F. SWAIN, S.B., M. Am. Soc. C. E., *Hayward Professor of Civil Engineering.*  
M. I. T., '77, I.

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

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

Residence, 435 Marlboro Street.

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

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

Author of *A Few Hints About Drainage* (1888), *Construction Details* (1892), *Notes on Limes, Cements, Mortars, and Concretes* (1892), etc.

Residence, 195 Marlboro Street.



ALPHONSE N. VAN DAELL, LL.D., *Professor of Modern Languages.*

B.A., Collège Saint Servais (Liège), '64; Ph.C., Louvain, '65; LL.D., Université de Liège, '68.

Professor of Modern Languages, Kentucky College, 1876-79; Instructor in Haverford College, and Lecturer in University of Pennsylvania, 1885-86; Director Modern Languages, Boston High and Latin Schools, 1886-89; Professor of Modern Languages, Massachusetts Institute of Technology, from 1889.

Author of A Monograph on the Study of Modern Languages, *La Parole Française* (in collaboration with Dr. L. Sauveur), *Das Deutsche Buch* (in collaboration with J. Schrakamp), *Leander's Träume* (edited and annotated), *Heine's Harzreise* (edited and annotated), *Mémoires du Duc de Saint-Simon* (edited and annotated), *An Introduction to the French Language*, *An Introduction to the French Authors*, *Extraits choisis de Paul Bourget*, etc.

Residence, 105 Irving Street, Cambridge.

WILLIAM T. SEDGWICK, PH.B., PH.D., *Professor of Biology.*

Yale S. S., '77; Berzelius Society.

Ph.B., Yale, '77; Ph.D., Johns Hopkins, '81.

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

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

Residence, 32 Chestnut Street.

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

University of Vermont, '79; A. S.; Ph. B. K.

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

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

Author of a Syllabus on Political History since 1815 (1887), Syllabus of Lectures on Economic Questions of Commerce (1892), reviews in Publications of American Statistical Association, *Suicides in New England*, associated in Report on Unemployed, etc.

Residence, 29 Marlboro Street, Boston.

SILAS W. HOLMAN, S.B., *Professor of Physics.*

M. I. T., '76, VIII.

Assistant, Massachusetts Institute of Technology, 1876-80; Instructor, 1880-82; Assistant Professor, 1882-85; Associate Professor, 1885-63; Professor from 1893.

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

Residence, Hotel Ikley.

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

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

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

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

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

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

With the Western Union Railroad, 1877-78; Professor of Mathematics and Engineering, Imperial Agricultural College, Japan, 1878-80; Assistant Professor of Mechanical Engineering, University of Illinois, 1881-83; Instructor, Massachusetts Institute of Technology, 1883-84; Assistant Professor of Steam Engineering, 1884-89; Associate Professor, 1889-93; Professor of Marine Engineering from 1893.

Author of *Notes on Governors and Fly Wheels* (1885), *Notes on Valve Gears* (1887), *Thermodynamics of the Steam Engine and other Heat Engines* (1889), *Economy and Efficiency of the Steam Engine* (1892), *Tables of the Properties of Saturated Steam* (1888), *Valve Gears for Steam Engines* (1890), etc.

Residence, Hotel Oxford.

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

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

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

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

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

Residence, Marshall Street, Newton Centre.

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

Bowdoin, '76; A.A. Φ.; Φ. B. K.

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

Author of *Patty's Perversities*, *The Pagans*, *A Wheel of Fire*, *Berries of the Briar*, *Sonnets in Shadows*, *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*, etc.

Residence, 62 Chestnut Street.

JOHN BIGELOW, JR., CAPT. UNITED STATES CAVALRY,

West Point, '77, 2d Lieutenant.

*Professor of Military Science and Tactics.*

With Tenth Cavalry in Texas, 1877-79; Instructor in Modern Languages, West Point, 1879-94; served under Generals Crook and Miles with Tenth Cavalry against Apache Chief Geronimo in Arizona, 1884-86; Adjutant-General District Columbia Militia, 1887-89, with Tenth Cavalry in Arizona and Montana, 1889-94. Professor M. I. T. from 1894.

Author of *The Principles of Strategy*.

Residence, The Gables, Babcock Street, Brookline.

D. DESPRADELLE, *Professor of Architectural Design.*

Received first promotion at the Ecole des Beaux-Arts, 1882; many of the prizes at the Ecole des Beaux-Arts and Institut de France; received diplomas from Ecole des Beaux-Arts and Société centrale des Architectes français; took part in the Concours de Rome four times, and received 1st Second Grand Prix in 1889, Lauriat du Salon; Assistant Inspector State Buildings and National Palaces, and under this title helped in the building of the New Ministry of Agriculture, National Library, the mansion of M. Wilson, and M. Grévy (ex-President), and various other public and private edifices.

Residence, 90 Pinckney Street.

PETER SCHWAMB, S.B.,

M. I. T., '78, II. *Associate Professor of Mechanism and Director of the Workshops.*

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 of Mechanism from 1888.

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

Residence, Arlington.

C. FRANK ALLEN, S.B., M. Am. Soc. C.E.,

M. I. T., '72, I. *Associate Professor of Railroad Engineering.*

Assistant Engineer, Providence Waterworks, 1872-73; Assistant Engineer, Providence Sewerage, 1873-75; Assistant Engineer, Newton Waterworks, 1875-76; Engineer Inspector, Boston Sewerage, 1877; Assistant Engineer, Atchison, Topeka & Santa Fé R. R., 1878-80; Assistant Engineer, Mexican Central R. R., 1880; Chief Engineer, Las Vegas Waterworks, and general engineering, 1880; Assistant Engineer, Atchison, Topeka & Santa Fé R. R., 1881-84; Assistant Professor, Massachusetts Institute of Technology, 1887-89; Associate Professor from 1889.

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

Residence, Vermont Ave., West Roxbury, Mass.

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

Bowdoin, '78; A. K. E.; F. B. K.

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

Residence, 60 West Newton Street.

DWIGHT PORTER, Ph.B., M. Am. Soc. C. E.,

Yale S. S., '80; Berzelius Society. *Associate Professor of Hydraulic Engineering.*

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 from 1890.

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, Notes on Stereotomy and Warped Surfaces, etc.

Residence, 147 Hawthorne St., Malden.

HEINRICH O. HOFMAN, E.M., PH.D., *Associate Professor of Mining and Metallurgy.*  
E.M., Met.E., Prussian School of Mines, Clausthal, '77; Ph.D., Ohio University,  
'89.

Practicing Metallurgist, 1877-85; Private Assistant to Prof. R. H. Richards, and Lecturer on Metallurgy, Massachusetts Institute of Technology, 1885-87; 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 from 1891.

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), Some Experiments on the Fusibility of Fire Clays, The Metallurgy of Lead and the Desilverization of Base Bullion, etc.

Residence, 6 Cedar Avenue, Jamaica Plain.

THOMAS E. POPE, A.M., *Associate Professor of General Chemistry.*  
Harvard University, '69.

Instructor in Chemistry, Massachusetts Institute of Technology, 1874-76; Professor of Chemistry, Iowa Agricultural College, 1876-84; Assistant Professor of General Chemistry, Massachusetts Institute of Technology, 1884-95; Associate Professor from 1895.

Residence, Rockland Street, Brighton.

ELEAZER B. HOMER, S.B., *Associate Professor of Architecture.*  
M. I. T., '85, IV.

Instructor in Architecture, Massachusetts Institute of Technology, 1887-90; Assistant Professor 1890-95; Associate Professor from 1895.

Author of Notes on Stereotomy.

Residence, Belmont.

GEORGE T. DIPPOLD, PH.D., *Associate Professor of Modern Languages.*  
Boston University, '83.

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 in 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, from 1895.

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

Residence, Hotel Berkeley.

HENRY P. TALBOT, S.B., PH.D., *Associate Professor of Analytical Chemistry.*  
M. I. T., '85, V.

S.B., M. I. T., '84; Ph.D., University of Leipzig, '90.

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 from 1895.

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

Residence, Balcarres Road, West Newton.

CHARLES F. A. CURRIER, A.B., A.M., *Associate Professor of History.*  
Harvard University, '87;  $\Phi$ . B. K.

A.B., Harvard University, '87; A.M., Harvard University, '88; Fellow of Harvard University studying at Berlin and Paris, '89-91.

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

Author of Constitutional and Organic Laws of France, American Editor of Brockhaus's Konversations-Lexikon, Assistant Editor of Book Department, Annals of American Academy of Political and Social Science, etc.

Residence, 11 Cutter Street, East Somerville.

WILLIAM O. CROSBY, S.B., *Assistant Professor of Structural and Economic Geology.*  
M. I. T., '76, VII.

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 from 1892.

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.

Residence, 5 Park Lane, Jamaica Plain.

LINUS FAUNCE, S.B., *Assistant Professor of Drawing.*  
M. I. T., '77, II.

Draughtsman for Superintendent of Bridges, P. C. & St. L. R. R., 1878-79; Chief Clerk Car Shops, P. C. & St. L. R. R., 1879-82; in charge of Waterworks and Signals, N. Y. & N. E. R. R., 1882-84; Assistant Professor, Massachusetts Institute of Technology from 1884.

Author of Descriptive Geometry, Mechanical Drawing, etc.

Residence, Bellevue Street, West Roxbury.

JEROME SONDERICKER, S.B., C.E., *Assistant Professor of Applied Mechanics.*  
University of Illinois, '80.

Instructor, University of Illinois, 1880-83; Assistant Professor Engineering and Mathematics, 1883-85; Instructor in Applied Mechanics, Massachusetts Institute of Technology, 1885-89; Assistant Professor of Applied Mechanics, from 1889.

Author of An Investigation as to How to Test the Strength of Cements (with G. Lanza), Experiments Relating to Theory of Beams, A Description of Some Repeated Stress Experiments, etc.

Residence, Newton.

ALLYNE L. MERRILL, S.B., M. Am. Soc. M. E., *Assistant Professor of Mechanism.*  
M. I. T., '85, II.

Assistant, Massachusetts Institute of Technology, 1885-87; Instructor, 1887-91; Assistant Professor of Mechanism from 1891.

Residence, 65 Dana Street, Cambridge.

DANA P. BARTLETT, S.B., *Assistant Professor of Mathematics.*  
M. I. T., '86, VI.

Assistant in Mathematics, Massachusetts Institute of Technology, 1886-87; Instructor in Mathematics, 1888-91; Assistant Professor of Mathematics from 1891; Assistant in Observatory of Harvard College, 1887.

Author of Elements of the Method of Least Squares.

Residence, 486 Columbus Avenue.

EDWARD F. MILLER, S.B., M. Am. Soc. M. E.,

M. I. T., '86, II.

*Assistant Professor of Steam Engineering.*

Assistant, Massachusetts Institute of Technology, 1886-88; Instructor, 1888-92; Assistant Professor of Steam Engineering from 1892.

Author of Tests on the Triple Expansion Engine at the Mass. Institute of Technology (with C. H. Peabody), published in Technology Quarterly, Description of a New Torsion Machine, published in Technology Quarterly, Measurement of Steam by the Flow through an Orifice (with C. A. Read), published in Technology Quarterly, The Efficiency of Jack Screws (with W. A. Johnston), published in Technology Quarterly, Steam Boilers (with C. H. Peabody), Tests on the Triple Expansion Engine at the Massachusetts Institute of Technology (second paper) (with C. H. Peabody), published in Transactions of the American Society of Mechanical Engineers, A Dynamic Steam Engine Indicator Tester (with C. H. Peabody), published in Transactions of the Society of Naval Architects and Marine Engineers, Tests on Spruce Columns (with G. Lanza), published in Transactions of the American Society of Mechanical Engineers, A new Cement Testing Machine, published in the Brick Builder, December, 1895.

Residence, Rockland Street, Brighton.

FRANK VOGEL, A.B., A.M., *Assistant Professor of Modern Languages.*

Harvard University, '87, A. U.

Professor of Modern Languages, Mitchell's Boys' School, Billerica, Massachusetts, 1887-88; Instructor of Modern Languages, Massachusetts Institute of Technology, 1888-92; Assistant Professor of Modern Languages from 1892; Postgraduate Student in Germanic Philology at Harvard University, 1888-92; Director of Modern Languages in the Normal Summer School of Languages and Science, Normal, Illinois, 1890-92; Student in Germanic and Romance Philology, Heidelberg University, 1893-94. Editor and Annotator of Chamisso's Peter Schlemihl's wundersame Geschichte.

Residence, 1682 Massachusetts Avenue, Cambridge.

WILLIAM L. PUFFER, S.B., *Assistant Professor of Electrical Engineering.*

M. I. T., '84, III.

Assistant, Massachusetts Institute of Technology, 1884-86; Instructor, 1886-93; Assistant Professor from 1893.

Residence, West Newton.

FREDERICK H. BAILEY, A.B., A.M., *Assistant Professor of Mathematics.*

Harvard University, '87;  $\Phi$ . B. K.

A.B., Harvard University, '87; A.M., Harvard University, '89.

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

Residence, 75 Wendell Street.

FRED L. BARDWELL, S.B., *Assistant Professor in General Chemistry.*

University of Minnesota, '81; M. I. T., '84, V.

Assistant in General Chemistry, 1884-86; Instructor in General Chemistry, 1886-94; Assistant Professor in General Chemistry from 1894.

Residence, Chamblet Street, Roxbury.

AUGUSTUS H. GILL, S.B., PH.D., *Assistant Professor in Gas Analysis.*

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

S.B., M. I. T., '84; PH.D., Leipzig, '90.

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

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

Residence, Canton.

ARTHUR A. NOYES, S.M., PH.D., *Assistant Professor in Organic Chemistry.*

M. I. T., '86, V.

S.M., M. I. T., '86; PH.D., Leipzig, '90.

Instructor, 1890-93; Assistant Professor from 1893.

Author of a Detailed Course of Qualitative Analysis; also numerous articles in Scientific Papers.

Residence, 28 St. James Avenue, Boston.

S. HOMER WOODBRIDGE, A.M., *Assistant Professor of Heating and Ventilation.*

Williams College, '73.

Student at the Massachusetts Institute of Technology, 1874; Instructor in Physics, 1883-95; Assistant Professor from 1895.

Residence, 15 Davis Avenue, Brookline.

HARRY E. CLIFFORD, S.B., *Assistant Professor of Theoretical Physics.*

M. I. T., '86, VI., Θ. E.

Assistant in Physics, 1886-88; Instructor in Theoretical Physics, 1888-95; Assistant Professor in Theoretical Physics from 1895.

Residence, 49 Eliot Street, Jamaica Plain.

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, 1879-82; Mining in Colorado, 1880-81; Superintendent of Silver Mine 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.

Residence, 1423 Washington Street, Boston.

FREDERICK S. WOODS, A.B., A.M., PH.D., *Assistant Professor of Mathematics.*

Wesleyan College, Ψ. T., Φ. B. K.

A.B., Wesleyan, '85; A.M., Wesleyan, '88; PH.D., Göttingen, '94.

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; Student at Göttingen, 1891-94; Assistant Professor, Massachusetts Institute of Technology from 1895.

Author of *Ueber Pseudominimalflächen*, 1895.

Residence, 25 Central Avenue, Hyde Park.

THEODORE HOUGH, A.B., PH.D., *Assistant Professor of Biology.*

A.B., Johns Hopkins University, 1886, PH.D., Johns Hopkins University, 1893.

Instructor in McDonogh School, Maryland, 1886-89; Instructor in Biology, Massachusetts Institute of Technology, 1893-95; Assistant Professor of Biology from 1895.

Residence, 72 Pinckney Street, Boston.

WILLIAM Z. RIPLEY, S.B., PH.D., *Assistant Professor in Sociology and Economics.*

M. I. T., '90, I.

S.B., M. I. T., '90; PH.D., Columbia, '93.

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

Residence, Newton Centre.

# INSTRUCTORS.

- HENRY K. BURRISON, S.B. . . . . *Instructor in Mechanical Drawing.*  
 M. I. T., '75, I.  
 Residence, Lincoln Park, West Newton.
- ELLEN H. RICHARDS, S.B., A.M. . . . . *Instructor in Sanitary Chemistry.*  
 M. I. T., '73, V.  
 Residence, 32 Eliot Street, Jamaica Plain.
- CHARLES L. ADAMS . . . . . *Instructor in Freehand Drawing.*  
 Residence, 135 Gore Street, Jamaica Plain.
- JOSEPH J. SKINNER, PH.D. . . . . *Instructor in Mathematics.*  
 Yale S. S., '69.  
 Residence, 377 Boylston Street.
- GEORGE H. BARTON, S.B. . . . . *Instructor in Geology.*  
 M. I. T., '80, III.  
 Residence, 16 Lexington Avenue, Cambridge.
- PETER S. BURNS, PH.D. . . . . *Instructor in General Chemistry.*  
 Iowa State College, '86; Δ. T. Δ.  
 Residence, Milton.
- JOHN W. SMITH . . . . . *Instructor in Industrial Chemistry and Textile Coloring.*  
 Residence, 7 Brookfield Street, Roslindale.
- ARTHUR G. ROBBINS, S.B. . . . . *Instructor in Civil Engineering.*  
 M. I. T., '86, I.  
 Residence, Highland Street, West Newton.
- JAMES H. STANWOOD, S.B. . . . . *Instructor in Civil Engineering.*  
 M. I. T., '87, I.  
 Residence, 8 Crawford Street, Great Head.
- HENRY N. DICKINSON, A.M. . . . . *Instructor in English.*  
 Amherst, '89; Ψ. U.  
 Residence, 38 Rockview Street, Jamaica Plain.
- GEORGE W. HAMBLET, S.B. . . . . *Instructor in Mechanical Engineering.*  
 M. I. T., '88, II.  
 Residence, 506 Lowell Street, Lawrence.
- FRANK A. LAWS, S.B. . . . . *Instructor in Electrical Measurements.*  
 M. I. T., '89, VI.  
 Residence, 44 Rutland Square.



- NATHAN R. GEORGE, JR., A.M. . . . . *Instructor in Mathematics.*  
Harvard University, '90; O. Δ. X.; Φ. B. K.  
Residence, 18 Cumberland Street.
- WILLIAM H. LAWRENCE, S.B. . . . . *Instructor in Architecture.*  
M. I. T., '91, IV.  
Residence, 34 Summer Street, Dorchester.
- WILLIAM S. DAVENPORT, S.B. (Absent) . . . . *Instructor in Analytical Chemistry.*  
M. I. T., '89, V.
- HARRY M. GOODWIN, S.B., PH.D. . . . . *Instructor in Physics.*  
M. I. T., '90, VIII.  
Residence, 232 Townsend Street.
- WILLIAM LINCOLN SMITH, S.B. . . . . *Instructor in Electrical Engineering.*  
M. I. T., '90, VI.  
Residence, 360 Marlboro Street.
- LEONARD M. PASSANO, A.B. . . . . *Instructor in Mathematics.*  
Johns Hopkins University, '89.  
Residence, 19 West Cedar Street.
- EDWARD ROBINSON, S.B.  
M. I. T., '90, II. *Instructor in Mechanical Drawing and Descriptive Geometry.*  
Residence, 9 Concord Square.
- CHARLES H. L. N. BERNARD . . . . . *Instructor in Modern Languages.*  
Chaptal College, Paris, '77.  
Residence, 214 Columbus Avenue.
- JOSEPH BLACHSTEIN . . . . . *Instructor in Modern Languages.*  
Realschule erster Ordnung, Hanover, '68; Institution, Springer, Paris, '70.  
Residence, 691 Parker Street, Roxbury.
- WILLIS R. WHITNEY, S.B. (Absent) . . . . *Instructor in Analytical Chemistry.*  
M. I. T., '90, V.
- CARLETON A. READ, S.B. . . . . *Instructor in Mechanical Engineering.*  
M. I. T., '91, II.  
Residence, 45 Saunders Street, Allston.
- JAMES SWAN, S.B. . . . . *Instructor in Naval Architecture.*  
M. I. T., '91, II.; Δ. K. E.  
Residence, Arcadia Street, Dorchester.
- G. RUSSELL LINCOLN, S.B. . . . . *Instructor in Sanitary Chemistry.*  
M. I. T., '71, III.  
Residence, 102 Charles Street.

- LOUIS DERR, M.A., S.B. . . . . *Instructor in Physics.*  
M.A., Amherst, '89, Δ. U.; S.B., M. I. T., '92, VI.  
Residence, 83 Centre Street, Brighton.
- GEORGE V. WENDELL, S.B. . . . . *Instructor in Physics.*  
M. I. T., '92, VIII.; Δ. K. E.  
Residence, 860 Massachusetts Avenue, Cambridge.
- LEON E. BERNARD . . . . . *Instructor in Modern Languages.*  
College, Louis le Grand, Paris, '79.  
Residence, 335-A Columbus Avenue.
- ROBERT P. BIGELOW, S.B., Ph.D. . . . . *Librarian of the Institute.*  
Johns Hopkins University, '92.  
Residence, 72 Pinckney Street.
- BENJAMIN E. CARTER, JR., A.M. . . . . *Instructor in Mathematics.*  
Harvard University, '90.  
Residence, 133 St. Botolph Street.
- HENRY G. PEARSON, A.B. . . . . *Instructor in English.*  
Harvard University, '93; Θ. Ξ.  
Residence, The Andover House, Rollins Street.
- FRANK H. THORP, Ph.D. . . . . *Instructor in Industrial Chemistry.*  
M. I. T., '89, V.  
Residence, Oriole Street, West Roxbury.
- CHARLES E. FULLER, S.B. . . . . *Instructor in Mechanical Engineering.*  
M. I. T., '92, II.  
Residence, Wellesley.
- WILLIAM A. JOHNSTON, S.B. . . . . *Instructor in Mechanical Engineering.*  
M. I. T., '92, II.  
Residence, Belmont.
- JOSEPH P. LYON, S.B. . . . . *Instructor in Civil Engineering.*  
M. I. T., '92, I.  
Residence, 69 Appleton Street, Boston.
- CHARLES F. PARK, S.B. . . . . *Instructor in Mechanical Engineering.*  
M. I. T., '92, II.  
Residence, Taunton.
- JOHN O. SUMNER, A.B. . . . . *Instructor in History.*  
Harvard, '87.  
Residence, Hotel Bristol.
- WILLIAM H. WALKER, B.S., A.M., Ph.D. . . . . *Instructor in Analytical Chemistry.*  
B.S., A.M., Pennsylvania State College, '90; Ph.D., Göttingen, '92; Θ. N. E.,  
Φ. K. Σ.  
Residence, The Berkshire.

- SAMUEL P. MULLIKEN, PH.D. . . . . *Instructor in Organic Chemistry.*  
M. I. T., '87, V.  
Residence, 106 Huntington Avenue.
- GEORGE W. ROLFE, A.M. . . . . *Instructor in Analytical Chemistry.*  
Residence, Broadway, Cambridge.
- L. KIMBALL RUSSELL, S.B. . . . . *Instructor in General Chemistry.*  
M. I. T., '86, V.  
Residence, Arlington.
- SIMEON C. KEITH, JR., S.B. . . . . *Instructor in Biology.*  
M. I. T., '93, VII.  
Residence, 19 West Cedar Street.
- ERVIN KENISON, S.B. . . . . *Instructor in Mechanical Drawing.*  
M. I. T., '93, II.  
Residence, Malden.
- CHARLES L. NORTON, S.B. . . . . *Instructor in Physics.*  
M. I. T., '93, VI.  
Residence, Manchester.
- KILBURN S. SWEET, S.B. . . . . *Instructor in Civil Engineering.*  
M. I. T., '93, I.  
Residence, 57 Chandler Street.
- F. JEWETT MOORE, A.B., PH.D. . . . . *Instructor in Analytical Chemistry.*  
A.B., Amherst, '89; Ph.D., Heidelberg, '93; X.  $\Phi$ .  
Residence, Hotel Oxford.
- W. FELTON BROWN . . . . . *Instructor in Frechand Drawing.*  
Residence, 33 Glenwood Street, Roxbury.
- FREDERIC H. KEYES, S.B. . . . . *Instructor in Mechanical Engineering.*  
M. I. T., '93, II.  
Residence, Newtonville.
- HENRY E. CRAMPTON, JR., A.B. . . . . *Instructor in Biology.*  
Columbia College, '93;  $\Theta$ .  $\Delta$ . X.  
Residence, 89 Charles Street.
- JUSTUS ERHARDT . . . . . *Instructor in Modern Languages.*  
Residence, Colburn Crescent, Brookline.
- HENRY FAY, A.B., A.M., PH.D. . . . . *Instructor in Analytical Chemistry.*  
A.B., Lafayette, '89; A.M., Lafayette, '92; Ph.D., Johns Hopkins, '95.  
Residence, 387 Boylston Street.
- HARRY W. GARDNER, S.B. . . . . *Instructor in Architecture.*  
M. I. T., '94, IV.  
Residence, Endicott.

# ASSISTANTS.

GEORGE B. HAVEN, S.B. . . . . *Assistant in Mechanical Engineering.*  
M. I. T., '94, II.

Residence, 196 Walnut Avenue, Roxbury.

FRANK I. MCKIBBEN, S.B. . . . . *Assistant in Civil Engineering.*  
M. I. T., '94, I.

Residence, 121 Main Street, Winchester.

JOSEPH W. PHELAN, S.B. . . . . *Assistant in General Chemistry.*  
M. I. T., '94, V.

Residence, 63 Lexington Street, East Boston.

SAMUEL G. REED, S.B. . . . . *Assistant in Mechanical Engineering.*  
M. I. T., '94, II.

Residence, Rockland.

FRANKLIN H. ROBBINS, S.B. . . . . *Assistant in Mechanical Drawing.*  
M. I. T., '94, II.

Residence, Highland Street, West Newton.

ALEXANDER W. MOSELEY, S.B. . . . . *Assistant in Mechanical Engineering.*  
M. I. T., '91, II.

Residence, 45 Concord Square, Boston.

HAROLD K. BARROWS, S.B. . . . . *Assistant in Civil Engineering.*  
M. I. T., '95, I.

Residence, Reading.

JESSE H. BOURNE, S.B. . . . . *Assistant in Mechanical Engineering.*  
M. I. T., '95, II.

Residence, Foxboro.

CARL H. CLARK, S.B. . . . . *Assistant in Mechanical Engineering.*  
M. I. T., '95, XIII.

Residence, 91 Clifton Street, Roxbury.

WILLIAM J. DRISKO, S.B. . . . . *Assistant in Physics.*  
M. I. T., '95, VIII.

Residence, 118 Chandler Street.

FRED. A. HANNAH, S.B. . . . . *Assistant in Mechanical Engineering.*  
M. I. T., '95, II.

Residence, 113 Falmouth Street.

HENRY A. HOLDREDGE, S.B. . . . . *Assistant in Physics.*  
M. I. T., '95, VI., Δ. Y.

Residence, 70 Chestnut Street.

- FREDERIC W. HOWE, S.B. . . . . *Assistant in General Chemistry.*  
 New Hampshire College of Agriculture and the Mechanic Arts, '94, Q. T. V.  
 Residence, 20 Newbury Street.
- CHARLES A. MESERVE, S.B. . . . . *Assistant in Sanitary Chemistry.*  
 M. I. T., '95, V.  
 Residence, 87 Lindere Street, Allston.
- JAMES F. NORRIS, A.B., PH.D. . . . . *Assistant in Organic Chemistry.*  
 A.B., Johns Hopkins, '92; PH.D., Johns Hopkins, '95.  
 Residence, 387 Boylston Street.
- SAMUEL C. PRESCOTT, S.B. . . . . *Assistant in Biology.*  
 M. I. T., '94, V.  
 Residence, 334 Broadway, Cambridgeport.
- CHARLES R. WALKER, S.B. . . . . *Assistant in General Chemistry.*  
 M. I. T., '93, V.  
 Residence, The Berkshire.
- WALTER S. WILLIAMS, S.B. . . . . *Assistant in Industrial Chemistry.*  
 M. I. T., '95, X.  
 Residence, Roxbury.

## INSTRUCTORS AND ASSISTANTS IN THE MECHANIC ARTS. ♣ ♣ ♣ ♣

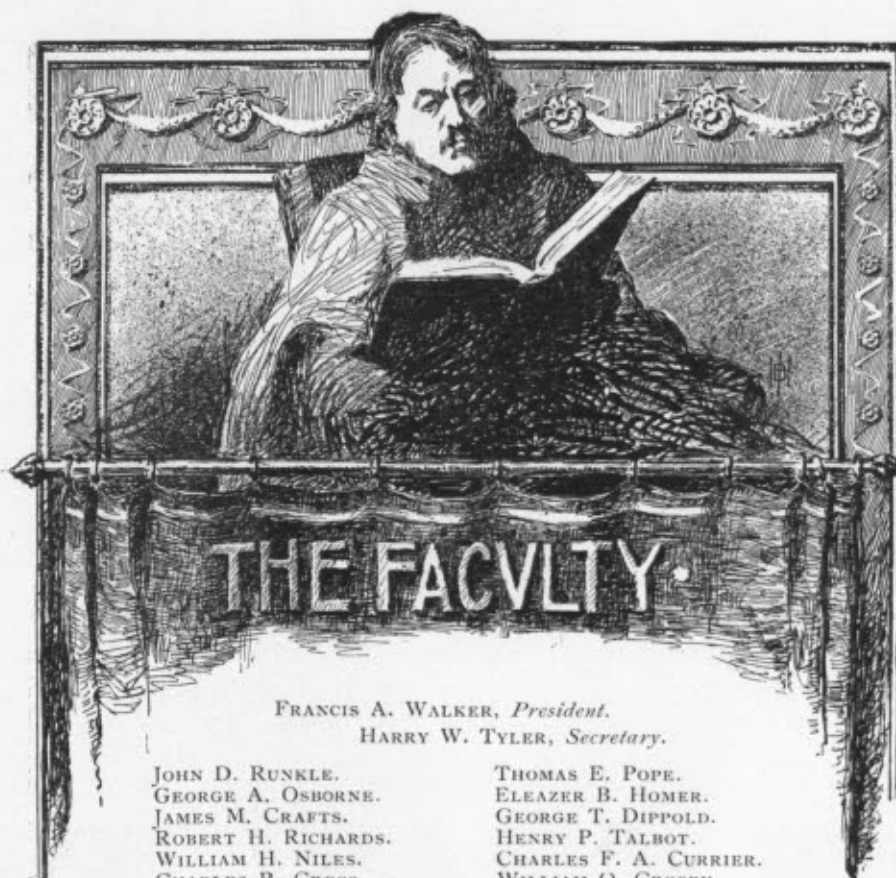
- THEODORE B. MERRICK . . . . . *Instructor in Woodwork and Foundry-work.*  
 Residence, Arlington Heights.
- JAMES R. LAMBIRTH . . . . . *Instructor in Forging.*  
 Residence, 106 Gore Street, Jamaica Plain.
- ROBERT H. SMITH . . . . . *Instructor in Machine Tool Work.*  
 Residence, 577 Tremont Street.
- MINOT A. BRIDGHAM . . . . . *Assistant in Woodwork.*  
 Residence, Prospect Union, Cambridgeport.
- EVERETT H. MASTERS . . . . . *Assistant in Forging.*  
 Residence, 11 Walnut Avenue, Roxbury.
- IRA G. STUDLEY . . . . . *Assistant in Machine Tool Work.*  
 Residence, Rockland.

## INSTRUCTOR IN GYMNASTICS.

- HERMAN BOOS.  
 Residence, Mansfield.

## TEACHERS AND LECTURERS FOR THE YEAR 1895-'96

- TRUMAN H. BARTLETT, *on Modeling.*
- LOUIS BELL, PH.D., *on the Electrical Transmission of Power.*
- GEORGE W. BLODGETT, S.B., *on the Applications of Electricity to Railway Signaling.*
- WILLIAM R. COPELAND, A.B., *on Bacteriology of Water and Sewage Purification.*
- J. P. B. FISKE, S.B., *on the Application of Electricity to Railway Transportation.*
- HOWARD C. FORBES, S.B., *on Commercial Electrical Testing.*
- JOHN R. FREEMAN, S.B., *on the Hydraulics of Fire Protection, and on Fireproof Construction.*
- HOLLIS FRENCH, S.B., *on Electrical Engineering Practice and Specifications.*
- DAVID A. GREGG, *on Pen and Ink Drawing.*
- HAMMOND V. HAYES, PH.D., *on Telephone Engineering.*
- HENRY M. HOBART, S.B., *on the Design of Dynamo Machines.*
- HENRY M. HOWE, S.B., A.M., *on Metallurgy.*
- DANIEL D. JACKSON, S.B., *on the Microscopical Examination of Water Supplies.*
- CHARLES D. JENKINS, S.B., *on Illuminating Gas, and on Pottery and Tiles.*
- ERNEST A. LE SUEUR, S.B., *on the Industrial Applications of Electro-Chemistry.*
- ARTHUR D. LITTLE, *on Paper.*
- JAMES W. LOVELAND, S.B., *on Chemical Analysis of Soaps.*
- SAMUEL W. MEAD, *on Architectural Design.*
- WALTER S. MOODY, *on Transformers.*
- WEBSTER NORRIS, S.B., *on Rubber.*
- ODIN B. ROBERTS, S.B., A.M., LL.D., *on the Nature and Function of Patents for Inventions.*
- LOUIS J. SCHILLER, *on Sugar and Sugar Refining.*
- FRANK G. STANTIAL, S.B., *on Sulphuric Acid.*
- ELIHU THOMSON, *on Recent Developments in Applied Electricity.*
- ROSS TURNER, *on Water Color.*
- C. HOWARD WALKER, *on the History of Ornament.*



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*Alvah R. van Delle*





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Elias W. Holman



Webster Wells



L. B. Pumbrey



Henry D. Tyler



Abel Bates



Wesley Bradley



Peter Schramm



John Sigelberg



Frank Allen



Alfred E. Barton



Dwight Porter



*H. O. Hoffmann*



*Thomas L. Pope*



*E. B. Howe*



*G. Thomas Duffell*



*Henry O. Lillie*



*Charles F. H. Currier*



*W. Q. Crosby*



*James H. H. H. H.*



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Frank Vogel



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Richard H. Lodge



Frederick S. Woods



Theodore Hough



William J. Ripley

## HENRY SALTONSTALL.

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IN his annual report, December 9, 1891, the President of the Institute of Technology made the following remark : " I long ago said that the greatest crisis through which a young institution of learning is called to pass, is, not with respect to its general scheme of work, not with respect to its finances, not with respect to its Faculty, but with respect to its Board of Trustees." What he then said on the subject of the cardinal importance of a right choice of trustees in an institution of learning, especially in its early days, he would now repeat with even more of emphasis, not only as the result of four years of added experience, but also out of his deep sense of the painful loss which the Institute of Technology has recently suffered in the death of one of its wisest, strongest, and bravest counselors.

Henry Saltonstall was born into one of the most distinguished families of Massachusetts, at Salem, the second of March, 1828. He fitted for college at Salem and at Phillips Exeter Academy, entering Harvard in 1843; but by reason of ill health was obliged to give up his studies and go to sea. Returning after a year's absence, he re-entered college, becoming a member of the Class of 1848, in which he graduated seventh in scholarly rank, a *Phi. Beta. Kappa*, and second marshal on class day.

It is not needful to dwell at length upon Mr. Saltonstall's business career. It was from first to last marked by a masterly comprehension of affairs, by calm courage and decisive energy. He was for some years engaged in the East Indian trade; but when the outbreak of our Civil War made this line of business both unremunerative and hazardous, he took up the work of textile manufacturing, to which he was to devote the remainder of his life. His first charge was the treasurership of the Chicopee Manufacturing Company, a small mill, which he ran to its fullest capacity throughout the war, often by night as well as by day, with a double staff of operatives. When he left this mill, in 1880, it had doubled its machinery, and its shares had advanced to five times their price in 1862. Meanwhile, in 1876, Mr. Saltonstall accepted the additional charge of the well-known Atlantic Mill, at

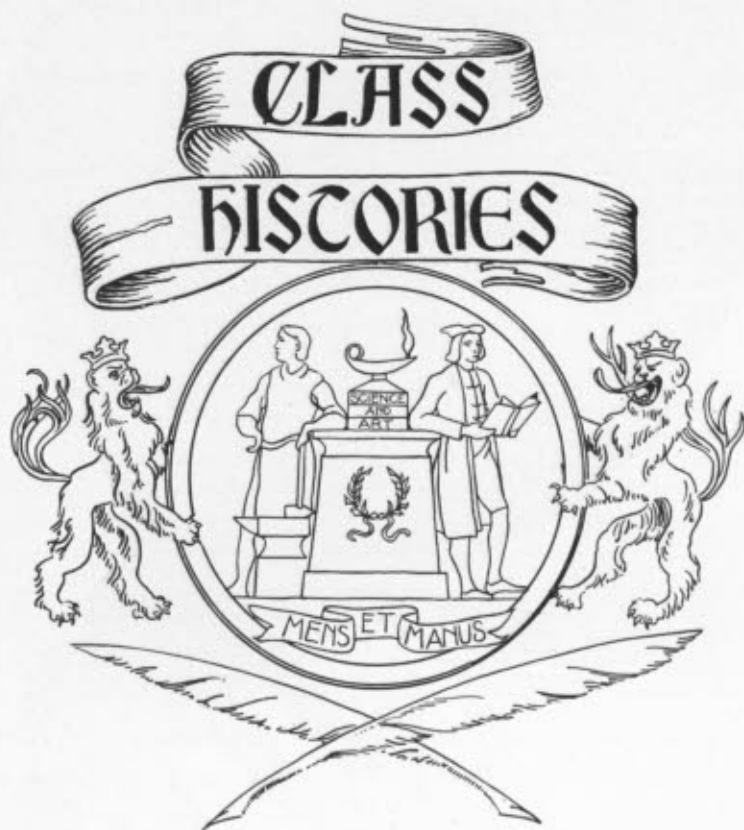
Lawrence, then lying idle, and in a condition rapidly going from bad to worse. Within six months after Mr. Saltonstall became treasurer, the mill was running with a full force; and, in spite of unfavorable business conditions, a substantial profit had been made. Mr. Saltonstall's success as manager of the two mills which have been named brought to him, in 1880, an offer of the treasurership of the Pacific Mills, in Lawrence, the largest and most important mills in this country, if not in the world. The story of Mr. Saltonstall's triumphant success in this great undertaking is common fame throughout Massachusetts and the whole textile manufacturing region of the United States. The condition of the mill was such as to require enormous expenditures, expenditures which, it might be said, were unprecedented in this department of business, for the renewal and reconstruction of the machinery; while the state of business in the woolen and worsted industry was such as to test to the utmost the courage and capacity of the new treasurer. No man ever rose more completely to the height of a situation. He restored the Pacific Mills to their former prestige, and won for himself a name among the very first of American Captains of Industry. To the close of his life he retained control of the affairs of this great corporation, having the fullest confidence of the stockholders and directors. Even while he was dying, it was a source of inexpressible gratification to him that he was able, though with a faltering hand, to sign what he considered the most favorable report which, as treasurer, he had ever had occasion to render. The full story of Mr. Saltonstall's business career, in all its varied aspects and with the greatest amplitude of detail, would be most instructive to the young men of the country; but our limits of space will not allow us to dwell longer upon it at this time.

Mr. Saltonstall was married in 1855 to Miss Georgiana Crowninshield, daughter of Hon. Nathaniel Silsbee, of Salem. An only child, a son named Gurdon, was born to them in 1856. In 1862 Mr. Saltonstall left Salem as a place of residence; and thereafter during the winters occupied his house on Commonwealth Avenue, Boston, one of the first houses built in that district, spending his summers on his beautiful estate in Lynnfield, on the shore of Suntaug Lake. To the inexpressible affliction of his parents, the son died in his twenty-second year. Early in his college career he had attempted a difficult canoe voyage, in which he endured hardships and exposures which brought on a fatal disease. After a long struggle for life, this only child of devoted parents died in the south of France in 1878.

But it is Mr. Saltonstall's relations to this school that the historian of *TECHNIQUE* has chiefly to relate. Mr. Saltonstall was elected to the Corporation of the Institute of Technology in 1885; and in May, 1887, became a member of the Executive Committee. From that time onward,

until near his decease, he performed a part in the support and development of this school of industrial science which it would be impossible to overstate. His knowledge of business, his mastery of affairs, would alone have made him a useful member of the Committee; but his splendid enthusiasm, his magnificent moral courage, his buoyant temper, which rose ever higher at the sight of obstacles and dangers, his uncompromising regard for justice, his sense of humor, his spirit of fun, all came in to make up that totality of faculties and qualities which rendered Henry Saltonstall an invaluable counselor. No words will enable one who has not been intimately associated with Mr. Saltonstall to understand the uplifting influence of his presence, his words, and his example.

Mr. Saltonstall's years of service as a member of the Executive Committee of the Massachusetts Institute of Technology have become a part, not only of the history, but of the present life, of the school. To separate what he did and what he was from what the Institute to-day is, would be as impossible as for Shylock to take his pound of flesh nearest to the heart without spilling the blood. He saw the school increase from six hundred students to twelve hundred. He saw building after building rise to make the new Institute. He rejoiced in it all. Of it all he was a part. As those years went on, his affection for and devotion to the school, which he had helped to guide through so many difficulties and helped to guard against so many dangers, grew stronger. He frequently spoke of the Institute of Technology as among his dearest interests in life; and it was with the deepest reluctance that in June, 1894, the progress of disease compelled him to relinquish his membership in the Executive Committee, though still remaining in the Corporation. On the 3d of December in the same year, Mr. Saltonstall died at his Boston home, having for months borne great suffering with undaunted courage and fortitude.





Evans





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### Freshman Class History.



HIS article, by hypothesis, is a history. "History," according to a previous proposition, "is an account of the doings of prominent men." Therefore "the student will easily deduce" that this is a history of Ninety-Nine. Ninety-Nine was born on the thirtieth of September, 1895, and is, consequently, little more than four months old. But though she has been in this busy world but a short time, she has acquired considerable experience and a fund of valuable information. Plunged at the hour of her birth into a sea of tabular views, attendance cards, and similar printed atrocities, she has succeeded in reaching the hard and dry subjects of second term, where she now firmly stands looking for trouble.

Wishing to take no chances, this class began Technology life at the top and bottom of the educational ladder. Paradoxical as this may seem, it is, like the rest of this history, strictly true; far, far up in Rogers, just under the roof, we were first put to work with A B C cards. A kindly faced gentleman conducted this kindergarten, and his delightful talks on the "habits and haunts of the primary mass" made pleasant our first days at Tech. But all our days were not full of joy; much money did we spend for books and instruments, and sadly did we realize that "none but the wealthy enjoy this life." Still, the Faculty did what they could for our entertainment, for in the center of our playroom, on the fourth floor, they had placed a large glass cage. In this cage dwelt a vicious monster called a Li(o)n-ss; and while the stories we had heard of its ferocity frightened us not a little, "'twas a pleasing fear," for much joy did we derive from teasing it, whistling and stamping to make it roar. But the monster knew many things, and one day it revolved the door of its cage into V, and projected itself into our room, dealing death, destruction, and double F's to all who opposed it.



Though we had trouble enough in Rogers, our troubles in that building were but a small part of our sorrows. Our sufferings in Walker will be remembered when all we learned there has long been forgotten; for in that building we heard Professor P-p- lecture on Chemistry, and under the same roof was the laboratory. [Note: For this, Course IV. men read Purgatory.] After climbing, as usual, all the stairs in sight, we came to a big room, furnished with many desks and a large, dark-brown odor,—the "Chem. Lab.,"—that cemetery where many a Freshman's hopes lie buried. Here, again, we found more evidence of the keen judgment of our Faculty. At one end of the room were many B. U. tiful maidens, who proved to be useful as well as ornamental. Thanks to them, we had never any difficulty in knowing where to find the Instructors. But though life in the "Lab." was not all "beer and skittles," we did not repine; we realized that it was good for us, for it tested our staying powers: many of us are staying five years on account of it.

Each Friday afternoon we met in the Armory to drill. None of us liked that place; we never felt at home there—there were no stairs to climb. We derived much joy, however, from our pretty blue uniforms, with their brightly burnished brass buttons and little caps that stuck to our heads as water sticks to a duck's back. We absorbed much useless and valueless misinformation from our studies of the manly art of war. We learned to guess how far off a pole was, and, after constant attention to the setting-up

exercises, to raise the buttons of our coats above our collars, and to stand on one foot *ad lib*. To show that war was not all practice and no theory, we were given lectures on "Strategy; or, How to Fool the Enemy," and many of us came to grief by trying to apply what we learned; for while a bluff is a good thing to stand on in war, it does not go in Boston.



After we had learned all these and many more things, we looked about us to find some means of occupying the numerous free hours the Faculty had given us. We began to hold class meetings. Our first bulletins were confused with the Y. M. C. A. announcements, and many Sophs came to meet with us. So taken were they with our looks, and so much did they envy us, that several, even after learning their mistake, insisted on staying.

They did not belong to our set, so we went away, not wishing to associate with them. Shortly after we held a second meeting, a souvenir of which, in the shape of a bill for one broken door, the Sophs treasure among their dearest possessions. We now found that it was the custom to have a football game and cane rush just before the Thanksgiving vacation, the object being to give those who escaped alive something to be thankful for.

The appointed day dawned dark and cloudy,—true cane-rush weather. At one o'clock we met at the "Gym," arrayed in every form of garment known to man, and, forming in line, marched to the South End Grounds, while, at the head of the column, the "band played on," resurrecting many an ancient tune. On arriving at the grounds we found that the game had already begun, and that the score was 6-0 in our favor. The band worked overtime, and we let loose our brand new slogan with such good effect that, at the end of the first half, the score was 10-0. During the second half we added six more points to our tally, defeating the Sophomores by the "jug-handled" score of 16-0. Lack of space forbids a description of the cane rush, which proved a very tame affair. After time had been called, and while we were on the side lines looking for barrels, the Sophs captured the cane, and were declared winners.

The rush over we gave up all excitement, and devoted ourselves to our studies and matching pennies in the drawing room. In both these pursuits we have met with many discouragements; examinations and well-timed raids by L-n-s have taught us that a Tech man's life is not a happy one. We do not repine, however, for can we not say with J. Caesar, "We came, we saw," and, from present indications, our chances for properly finishing the quotation are excellent.







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### Sophomore Class History.



AY, me name's Chames Fadden. Youse all knows me. Dey all knows me on de Bowery. I dunno if dey know me now er not. Yuse see, it was like dis: I was all broke up wid chasin' meself in town t'see 'bout dat bull pup so often, an' dey said I "needed complete rest." Dat was wat dey said, in dose dude langwudge. Den dey sent me here t' take Course IV. I been here a year an' a half now. Dat's what I'm tellin' yer 'bout. Say, dis town, Boston, ain't so slow if 'tis a good way from de Bowery. Sure. Dey's a place called de Palace I'm dead stuck on. An' de Reynolds an' de Old Elm, too. If yuse doubts me ast Ben Hurd. But dis Technology is de smoodest. De first day I chased meself in I didn't know wot t'ell. Dere

was a lot er mugs loafing 'round, an' I taut I'd get a scrap, but dey was no use ter put up dere hands. Den I saw a goil in a dinky cage, an' dey said she was a bird. She didn't look dat way, but I went up to jolly her like I allus does jolly de chippies. Say, I got de ugly t'row down. Dat's right. She must a soured on me some way.



We had ter do lots er farmer t'ings. Dere was a mug wid a black beard wot made us draw dinky pictures like wot de artises does. 'E was dead fresh, too, an' I'd a t'umped him, on'y 'e made me tink of 'is whiskers. Den anodder felly 'e showed us how to mix de drinks. Dey was no good, dough, on'y jes' dinky ter look at. 'E was right people, 'cause he could talk English, an' not dose for'n dude langwudge. When he said "im-mejiately," I taut I was on de Bowery. Sure. Den we had ter go ter a place dey called de Arm'ry, an' learn to toy wid a gun. Dat was dead foolish. It don't help a felly in a scrap, none 'tall.

Say, we had a good scrap dose days, too. Dere was some mugs wot had been in de game a year longer nor we, and dey was lookin' fer trouble; we was lookin' fer trouble, too, so we scrapped. Dey kep' stringin' us an' lettin' us t'ink dey was dead easy fruit. We didn't keep our eyes peeled, an' got done. We was farmers dat time. Sure.

Den we all had a big feed,—Class Dinner dey calls it in dat for'n langwudge,—an' we trun de stuff down our face ter beat two pair. We didn't have no small bots at de table, an' de poipers taut we was mishioners. Dat was a angry bluff. We jus' chased ourselves outside and got de small colds, jus' de same. Dere was a felly shot off 'is mout 'bout de Class of Umpty ump. 'E was a mishioner, I don't t'ink. Sure. Comin' home de cop tried ter snatch us. 'E ran one man in. Dat's dead straight. But a mug named Hall went in an' squared him. Say, 'es right people, dat Hall.

Den we an' some Willieboys from Harv'd had a match ter see who could sling dere guns de bes'. We could give dose mugs points fer weight an' win in a walk. Sure. Dey was easy.



Nex' year we was all dere again. Dat is, mos' of us was. Dere was de same foolishness as before. One mug gave us a great song an' dance t'ree

times a week 'bout fizzes, or sometin' like dat. We wasn't onto 'is curves, an' we couldn't tell wot 'e was jawin' 'bout. We didn't give wot t'ell, neder. Den 'ed say, "Any questions on de las' lecture?" Jus' like dat. See? I ast him one onct an' 'e was dead parylized. Dere was anodder duck wot talked 'bout Shakspeare an' dem old people. 'E read 'bout a mug wot kep' a store in Venice, or somewheres, one day jus' like dey does up on top er de stage. 'E'd ought te be on de Bowery. Sure.

Dat was de time we went into polytics. Dey was some kids wot was new t'de game, an' dey was fresh like we was de year before. Dey wanted t' erlect some preserdents an' tings. Say, we went to dose meetin's an' we was stringin' 'em way over de limit. We jollied 'em so dey 'lected our men every time. Dey was dead farmers, sure. Dey couldn't see nuttin' 'tall fer de hayseed fallin' out er dere hair.

Den we had a scrap wid dose mugs like we had wid de odders de year before. We done 'em easy. Dere was a game wid a dinky ball where dey done us, but dat didn't chop no frost. We got de cane. Dere was twenty-two of us on dat stick ter on'y-nine er dem fruits.

Den we raced and t'rowed weights 'gainst de odder classes, an' was easy queens dat time. We runs de eart' now. When we walks on de Av'noo wid our new canes wese right up ter de limit. We feels like we was four-time winners. Sure.



### AT M. I. T.

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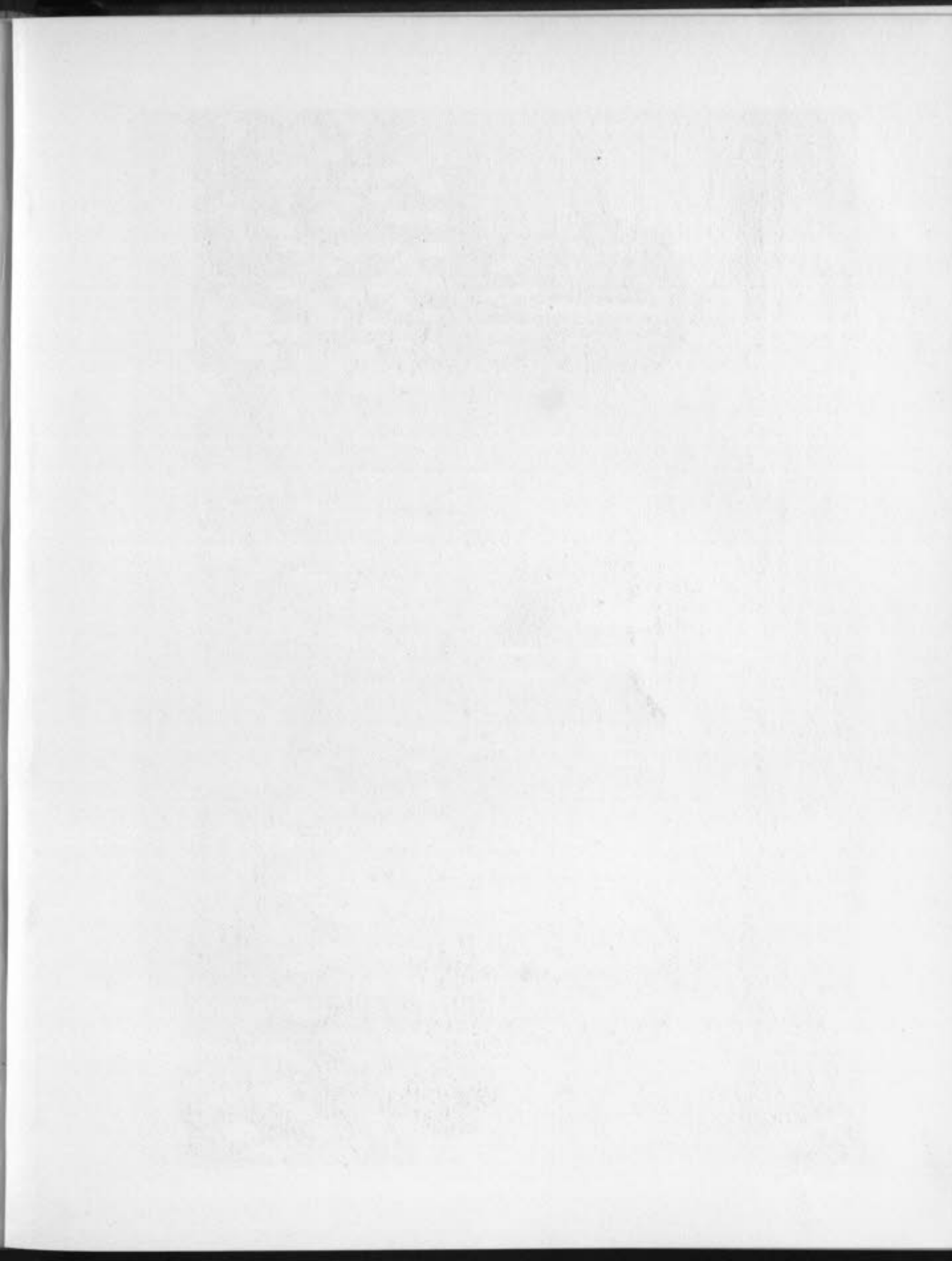
Hurry, hurry, toil and flurry,  
Working for a C;  
He's a little Freshman,  
Plain as plain can be.

Hurry, hurry, toil and flurry,  
Working for a P;  
A proud but anxious Sophomore,  
As any one can see.

Hurry, hurry, toil and flurry,  
Grateful for an L;  
Got to be a Junior,  
How he could not tell.

Hurry, hurry, toil and flurry,  
Working for S.B. ;  
Whether he will get it,  
Least of all knows he.





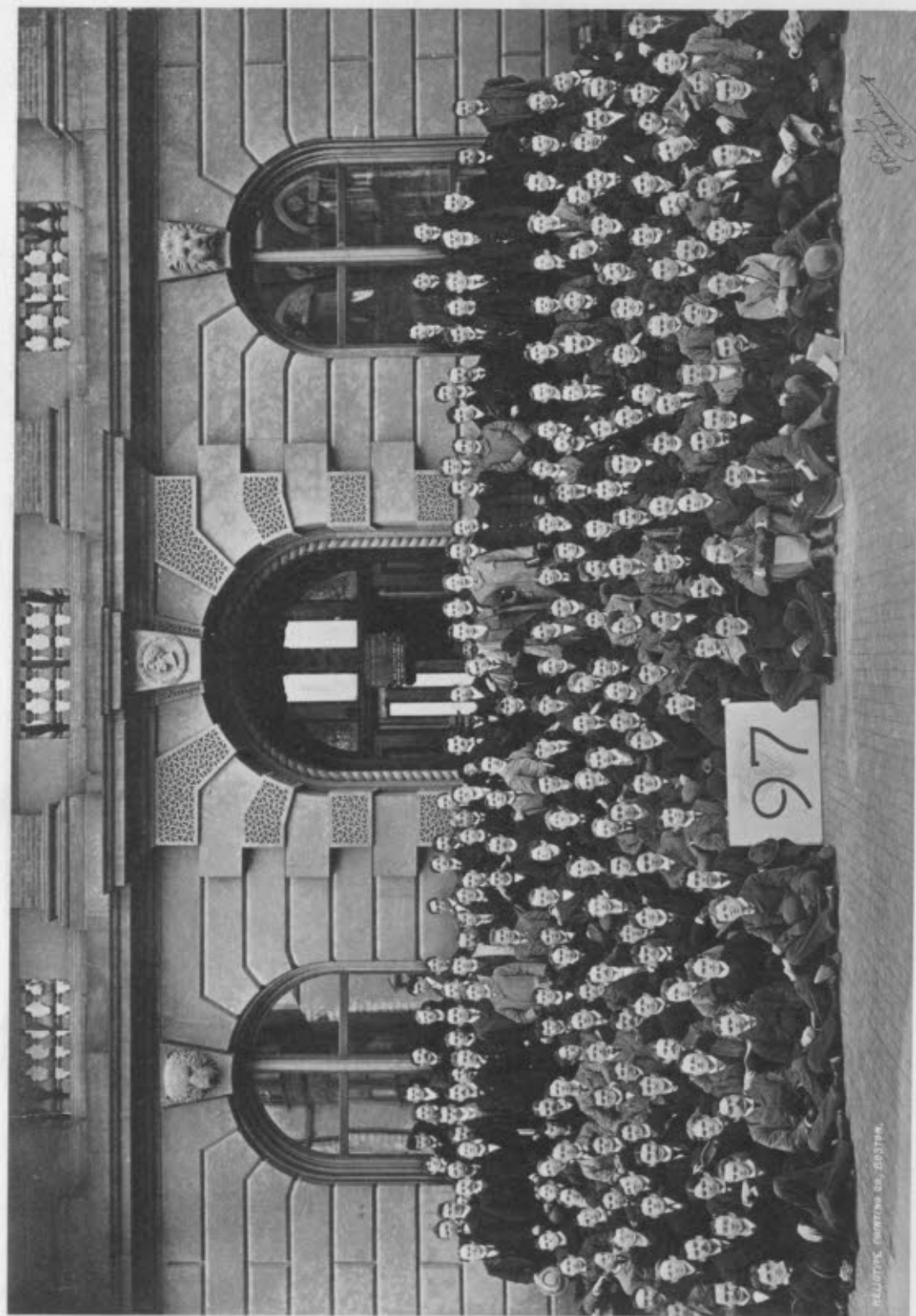
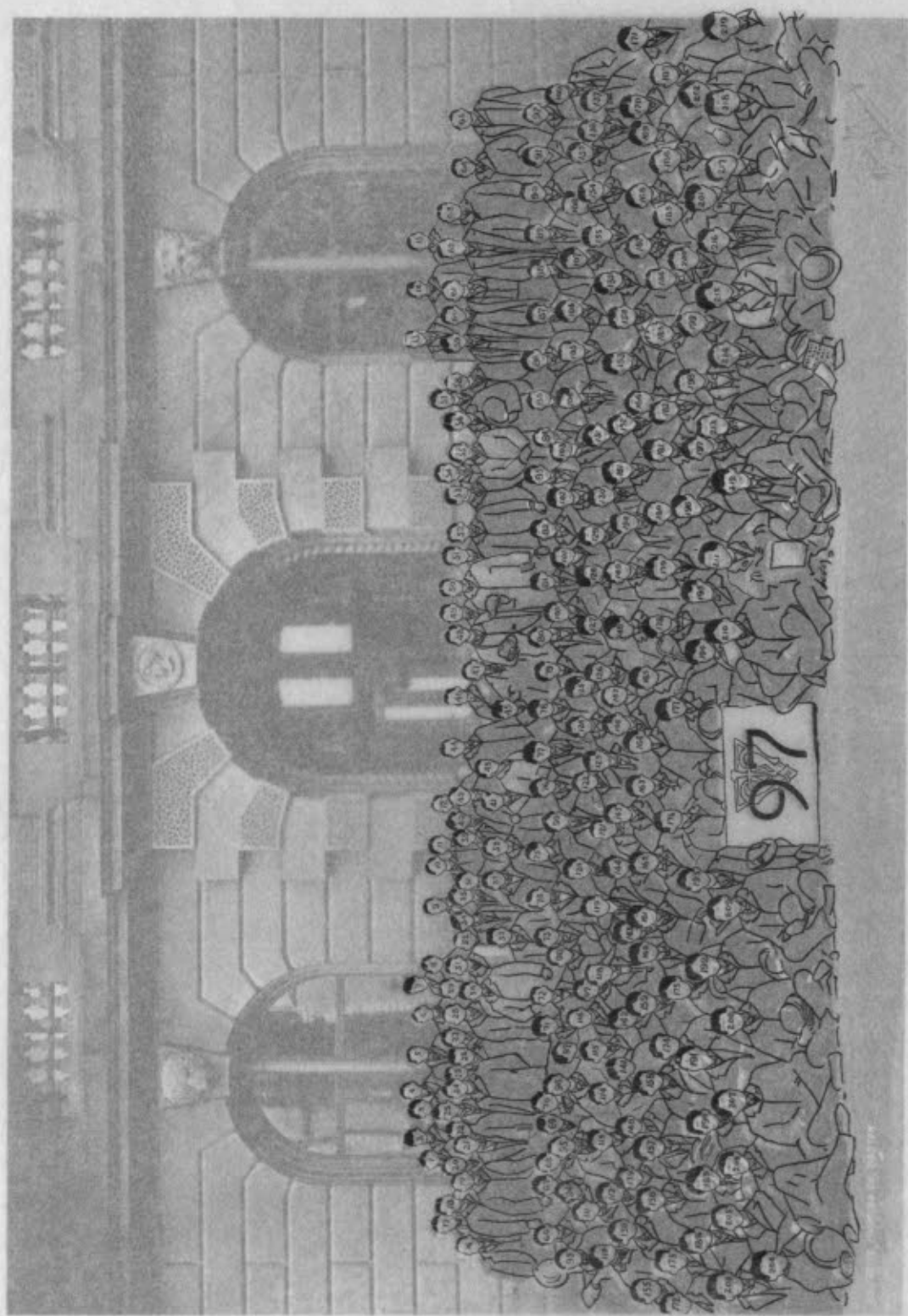


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# KEY TO CLASS PHOTOGRAPH.—Names in Numerical Order.

1 Walther, W. J.  
2 Barnes, W. H.  
3 Underwood, F. E.  
4 Carty, J. E.  
5 Hammond, C. L.  
6 Burrill, N. C.  
7 Bliss, G. F.  
8 Drake, C. H.  
9 Records, F. B., Jr.  
10 Shaw, A. W.  
11 Souder, J. B.  
12 Moran, G. A.  
13 Toney, J. E.  
14 Montith, A. D.  
15 Nickerson, Clarendon  
16 Putnam, S. W., 3d  
17 Hosford, R. F.  
18 Howland, J. H.  
19 Brown, D. Q.  
20 Breed, C. B.  
21 Sargent, E. C.  
22 McCormick, E. B.  
23 Gowen, Sumner  
24 Pike, O. S.  
25 Parsons, W. E.  
26 Prime, H. A.  
27 Rutherford, E. W.  
28 Strong, E. F.  
29 Brainard, E. A.  
30 Hoit, H. F.  
31 Wadleigh, G. R.  
32 Woodman, G. M.

33 Jennings, A. L.  
34 Healy, F. H.  
35 Bramhall, C. T.  
36 Smith, P. M.  
37 Hawkins, E. M.  
38 Demeritt, L. M.  
39 Roff, E. W.  
40 Stetler, K. J.  
41 Keisker, F. H.  
42 Kelsker, F. H.  
43 Dougherty, P. L.  
44 Fames, C. H.  
45 Eames, C. H.  
46 Le Baron, F. N.  
47 Lamb, A. A.  
48 Lamb, A. A.  
49 Hill, W. G., Jr.  
50 Faxon, W. A.  
51 Faxon, W. A.  
52 Woodworth, E. H.  
53 Field, D. D.  
54 Bowen, E. C., Jr.  
55 Elson, Arthur  
56 Elson, Arthur  
57 Elson, Arthur  
58 Woodman, A. G.  
59 Hürter, C. S.  
60 Hayward, R. H.  
61 Smith, J. W.  
62 Capen, C. A.  
63 Drew, A. T.

64 Hemmings, F. J.  
65 Wood, W. R.  
66 Paine, C. B.  
67 Oliver, M. F.  
68 Maguire, T. F. J.  
69 Maguire, T. F. J.  
70 Whiting, R. S.  
71 Beers, H. P.  
72 Crocker, A. S.  
73 Crocker, A. S.  
74 Booth, G. H.  
75 Edmonds, F. L.  
76 Dotten, A. R.  
77 De Witt, H. M.  
78 Hubbard, J. B.  
79 Barkhouse, E. L.  
80 Temple, John  
81 Baldwin, C. F., Jr.  
82 Marshall, H. W.  
83 Stiles, P. G.  
84 Swan, C. M.  
85 Russell, W. B.  
86 Bushy, F. E.  
87 Frazier, C. W.  
88 Ferris, R. M., Jr.  
89 Healey, R. M.  
90 McMillan, J. P.  
91 Hunnewell, F. A.  
92 Stebbins, C. B.  
93 Robinson, A. E.  
94 Ritchie, E. W.

95 Spring, R. C.  
96 Cotter, W. E.  
97 Parsons, E. E.  
98 Graves, A. L.  
99 Bowen, R. A.  
100 Heathman, F. B.  
101 LeBaron, F. N.  
102 Robinson, L. G.  
103 Roberts, T. M.  
104 Driscoll, T. J.  
105 Smith, W. F.  
106 Weymouth, T. R.  
107 Sumner, E. A., Jr.  
108 King, W. B.  
109 Binley, Wm., Jr.  
110 Humphreys, Walter  
111 Poore, V. L.  
112 Boeck, G. H.  
113 Bush, W. M.  
114 Ewen, M. F.  
115 Ewing, W. C.  
116 Vital, R. S.  
117 Videto, T. E.  
118 Spies, A. D.  
119 Orr, Hugh  
120 De Wolfe, A. S.  
121 Brown, J. M.  
122 Butterworth, E. R.  
123 Eaton, W. W.  
124 Currier, C. R.  
125 Kimberley, A. E.

126 Feeley, F. G.  
127 Clark, H. A.  
128 Hubbard, C. D.  
129 Gray, O. H.  
130 Herbst, J. B.  
131 Manson, E. S., Jr.  
132 Dunn, W. C.  
133 Howard, E. H.  
134 Royce, J. C.  
135 Daniel, J. R.  
136 Smith, W. F.  
137 Curtis, A. V.  
138 Norris, A. P.  
139 Osgood, E. P.  
140 Bardick, H. H.  
141 Swan, R. A.  
142 Lee, W. L.  
143 Lawley, A. C.  
144 Lawler, G. S.  
145 Coleman, E. A.  
146 Alden, J. T.  
147 Hovest, B. A.  
148 Read, W. E.  
149 Davis, A. L.  
150 Coville, L. S.  
151 Staples, W. D.  
152 Mason, E. P.  
153 Eaton, F. W.  
154 Faxon, W. W.  
155 Hall, R. G.  
156 Howard, S. L.

157 Richards, P. E.  
158 McCarthy, F. V.  
159 Worcester, H. E.  
160 Hunt, H. B.  
161 Heissler, E. R.  
162 Heissler, Carl  
163 Noble, H. A.  
164 Sawtelle, W. O.  
165 Hooker, C. W.  
166 Bradice, C. W.  
167 Fuller, G. A.  
168 Du Pont, Irénée  
169 Trumbull, M. K.  
170 Cummings, R. M.  
171 Burnham, George  
172 Fox, W. H.  
173 Sawtelle, H. F.  
174 Frank, Mortimer  
175 Fering, O. C.  
176 Franklin, A. J.  
177 Collins, J. A., Jr.  
178 Richards, L. J.  
179 Potter, W. C.  
180 McCarthy, G. H.  
181 Parker, W. T., Jr.  
182 Page, Walter  
183 Hiley, I. P., Jr.  
184 Allen, H. W.  
185 Dwyer, J. R.  
186 Olin, E. R.  
187 Clark, C. B.

188 Cook, J. C.  
189 Nelson, A. H.  
190 Brown, W. D.  
191 Atwood, T. C.  
192 Hunt, H. D.  
193 Rolfe, H. P.  
194 Bancroft, Joseph  
195 Sweetser, C. H.  
196 Shuman, J. W.  
197 Hatch, Israel, Jr.  
198 Barrows, Bernard  
199 Parker, W. R.  
200 Bancroft, Wilfred  
201 Denison, R. L.  
202 Loomis, H. M.  
203 Bliss, E. P.  
204 Mansfield, F. E.  
205 Ward, E. S.  
206 Smith, O. B., Jr.  
207 Washburn, Thurlow  
208 Fisk, G. L.  
209 Donovan, J. A.  
210 Sturtevant, Edward  
211 Taylor, John  
212 Sawyer, David  
213 Pratt, G. H.  
214 Moore, H. K.  
215 Benneman, J. B.  
216 Gilbert, F. C.  
217 Boyd, John  
218 Kelley, William  
219 Daly, R. E.

# KEY TO CLASS PHOTOGRAPH.—Names in Alphabetical Order.

147 Alden, J. T.  
148 Allen, H. W.  
149 Atwood, T. C.  
150 Baldwin, C. F., Jr.  
151 Bancroft, Joseph  
152 Bancroft, Wilfred  
153 Barrows, Bernard  
154 Barnes, W. H.  
155 Beers, H. P.  
156 Binley, Wm., Jr.  
157 Bliss, E. P.  
158 Bliss, G. H.  
159 Bowen, E. C., Jr.  
160 Booth, G. H.  
161 Bowen, E. C., Jr.  
162 Boyd, John  
163 Bradice, C. W.  
164 Bramhall, C. T.  
165 Breed, C. B.  
166 Brennan, J. B.  
167 Brown, J. M.  
168 Brown, W. D.  
169 Burdick, H. H.  
170 Burnham, George  
171 Burrill, N. C.  
172 Bush, W. M.  
173 Bush, W. M.  
174 Butterworth, E. R.

175 Carty, J. E.  
176 Clark, C. B.  
177 Clark, H. A.  
178 Coleman, E. A.  
179 Collins, J. A., Jr.  
180 Cook, J. C.  
181 Cotter, W. E.  
182 Cowles, L. S.  
183 Crocker, A. S.  
184 Cummings, R. M.  
185 Currier, C. R.  
186 Currier, C. R.  
187 Custer, W. H.  
188 Daly, R. E.  
189 Davis, A. I.  
190 Davis, A. I.  
191 De Witt, H. M.  
192 Demeritt, L. M.  
193 Denison, R. L.  
194 De Wolfe, A. S.  
195 Dotten, A. R.  
196 Drake, C. T.  
197 Drake, C. T.  
198 Drew, A. T.  
199 Heathman, F. B.  
200 Heissler, E. R.  
201 Hemmings, F. J.  
202 Loomis, H. M.  
203 Maguire, T. F. J.

204 Mansfield, F. E.  
205 Marshall, E. S., Jr.  
206 Marshall, H. W.  
207 Mason, E. P.  
208 McCarthy, F. V.  
209 McCormick, E. B.  
210 McMillan, J. P.  
211 Montith, A. D.  
212 Moore, H. K.  
213 Morse, G. A.  
214 Mott, E. R.  
215 Nelson, A. H.  
216 Nickerson, Clarendon  
217 Noble, H. A.  
218 Noble, H. A.  
219 Olin, E. R.  
220 Oliver, M. F.  
221 Orr, Hugh  
222 Osgood, E. P.  
223 Page, Walter  
224 Paine, C. B.  
225 Parker, W. R.  
226 Parker, W. T., Jr.  
227 Parsons, A. L.  
228 Parsons, W. E.  
229 Pettie, C. L. W.  
230 Pike, O. S.  
231 Poore, V. L.  
232 Potter, W. C.

233 Pratt, G. H.  
234 Prime, H. A.  
235 Pugh, A. H.  
236 Putnam, S. W., 3d  
237 Records, F. B., Jr.  
238 Reed, W. E.  
239 Richards, L. J.  
240 Richards, P. E.  
241 Ritchie, E. W.  
242 Roaf, E. W.  
243 Roberts, T. M.  
244 Robinson, E. G.  
245 Robinson, L. G.  
246 Rolfe, H. P.  
247 Rooke, W. A.  
248 Royce, J. C.  
249 Russell, W. B. W.  
250 Rutherford, E. W.  
251 Sawtelle, H. F.  
252 Sargent, E. C.  
253 Sargent, E. C.  
254 Schuttler, David  
255 Sells, W. H.  
256 Shaw, A. W.  
257 Shuman, J. W.  
258 Smith, J. W.  
259 Smith, J. W.  
260 Smith, O. B., Jr.  
261 Smith, F. M.  
262 Wadleigh, G. R.  
263 Wadleigh, G. R.  
264 Washburn, Thurlow  
265 Watts, F. H.  
266 Weymouth, T. R.  
267 Whiting, R. S.  
268 Wood, W. R.  
269 Woodman, A. G.  
270 Woodman, G. M.  
271 Woodworth, E. H.  
272 Worcester, H. E.  
273 Wyard, E. S.





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## Junior Class History.



XTRACKTE FROM YE SCHOOL REPORTE OF YE PROVINCE OF TROGLODYTICA, EGYPTTE, FOR YEARE EIGHTEEN HUNDRED AND NINETY-FIVE B.C. DONE INTO ENGLISHE BYE COTTON MATHER.

This yeare hath seen quiete and deepe prosperitie in ye Technian Universitie, due to extreme brilliancie of ye Classe of Ninetie-Seven, which doth welle overweighe ye unmitigated nonconductivitie of ye graie matter of ye Classes of Ninetie-Six, Ninetie-Eight, and Ninetie-Nine.

The wisdom of ye classes for ye first halfe calendere yeare is here shewd. In ye classe of Ninetie-Eight: of smarte men, two percentum; of shrewde men, twelve percentum; of grindes, fiftie-three percentum; and of



flunklets, thirtie-seven percentum,—totalle, one hundred percentum. While ye respective percentum of ye Classe of Ninetie-Seven are: of smarte men, twentie-six; of shrewde men, sixtie-nine; of grindes, four; and of flunklets (from ye Classe of Ninetie-Six), two percentum,—totalle, one hundred percentum.



In ye laste halfe yeare the percentum for ye classe of Nintie-Eight are: of smarte men, one half percentum; of shrewde, nonne; of grindes, thirtie-two; flunklets, thirtie-one, — totalle, sixtie-four percentum. While ye Classe of Ninetie-Seven hath not changed, ye others have not been computed, ye Classe of Ninetie-Six being of two little accounte, and Ninetie-Nine being but a downie chrysalis any waie.

In ye following ye scribe of Troglodytica doe endeavour to give certain blameless affaires of ye yeare 1895 to Historie.

January 1. This day ye free men make resolutions that are marvell in mannie waies, and for ye day ye “stute” seemeth a strange, wierde place.

January 2. Ye resolutions are left at the Cagge to be called for, and much straight cutte incense is burned on ye steppes to celebrate ye returne of peace.

January 7. This day ye jollie Chemiste did comb and brushe his hayre. Resulte, his eares were nipped by ye froste.

January 10. This daie ye giant braine of ye Secretarie did work overtime, and a new tabular view was ye producte.

January 15. From now onne ye classe was sore occupyd with ragge chewing, for ye dreadde semies have come.

January 26. Reports received, and ye dulle, sickening thudde was heard in ye lande.

January 29. Exercises began for ye wise onnes whose attendance cardes were inne.

February 4. Ye preliminarie jeste by ye Proffe Niles, giving deepe bliss to ye classe.

February 15. This daie it was rumored that ye chocolate pye heldde out.

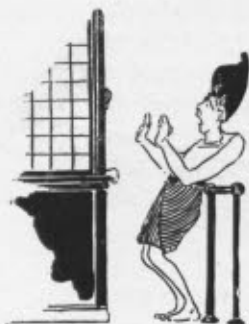
February 22. This daie nobodie went to sleep in ye lecture in Physicks, and blessed is ye Father of his Countrie.

March 11. This daie did Dana Bartlett smile, and those who saw ye wierd sight covered their faces and cried, “Helppe!”

March 15. A freemanne wente to Riddler’s to bye a notebooke that coude be gotte at Mac’s. He was caughte, and is now locked uppe, waiting for ye vile humor to leave him.



March 16. This daie was the class feede holden at ye Thorndyke Inne. Much good cheer was consumed, and a jolie time was ye result. Ye oratorie of the speakers was of ye best. Master Bragge did preside, and, with manie a quaint quulp and merie jest, he did welle nigh convulse ye companie. One Jackson read a dainty poem, all aboute some friends of his, which made ye hitte of ye evening.



March 20. Arlo did smile a deepe smole as certain freemen did come late unto his lecture of Shakespeare and ye waie meals should be eat. Arlo hath a grande mein in his indignation, and doth merit promptness.

April 1. There were no legal limits to the monopolie of this daie by ye Classe of Ninetie-Six.

April 22. This daie did Herr Vogel reduce his usuall lustie assignment of Deutch to seventiene pages.

April 23. This daie did ye Civiles cut manie capers amonge ye hills of Clarendon, which did ringe with ye gurgling laughfe of ye manne from Lynne.

May 2. This daie did Proffe Niles make a greате speech for ye laste lecture in physickal geographie. It was very large and deeplie profounde, like its mayker, and ye applause did beget mannie a see.

May 15. This daie did ye Classe of Ninetie-Eight chasse much leather at ye South Ende Grounds, and all to noe purpose, for ye goode men and true of Ninety-Seven did drubbe them at ye base ball to ye tune of sixteen to six. Much joie did we all derive from watching ye anticks of ye Freshman, and ye crie, "Willie, go home," was hearde far and widde. Goode Putman, he of ye grappe-vine curves, did winne much fame.

June 1. Now a swarm of vile pestes, ye inmates of ye summer schools, came down upon ye Universities, forcing all freemen to take to ye woodes.

September 30. Toe yeares this daie was Ninetie-Six given a severe drubbing in trieing to be funnie in Huntington Hall.

October 1. This daie the ninth victime of Tabular View, a comely Freshman, was interred.

October 3. Ye legge of ye Sec. was greatly stretched by Master Dodge, A.B. (right) ladde from Harvarde, who, indeede, can out-jollie any manne of his size and weight in all ye province. 'Tis rumored that now when Master D. appeareth in ye outside office, ye wily Doctor does not scruple to put climbing irons on bothe legges—thus proving that "we do not treat a new manne righte."





October 5. Alarum! This daie ye seven strange men of Newberrie-  
 porte did enter ye Rogers corridor in strange arraie, with hayre in parte  
 across from eare to eare, in single file, then did passe within ye office.

October 14. This daie it rained, and ye one hundred and forty-third  
 victime (a freshman) did yielde to frighte before ye cage.

October 15. Alarum! alarum! Ye seven strange men of Newberrie-  
 porte come from out ye offise in single file, gather in magic circle in center  
 of ye tyld floor, then stampe thrice, verie softlie; then, with time to

nodding heade, arose a maroon rumble that did  
 growe and wax and fill ye whole house, tille ye olde  
 clock on ye balcanie did change from fourteen min-  
 utes of nine; then the sounde did wane, and lose  
 and cease, and ye seven strange men of Newberrie-  
 porte did passe oute in single file.

November 8. One of Ninetie-Eight did telle,  
 'twas saide, that Deacon Descrip did wax hot in  
 minde, and colors of the foure lesser wave lengths  
 did flare and flicker in his orbs; and little, blue  
 sparkes did crackle and plaie hyde and seake in his  
 bearde. Doth the Sophe lye?

November 12. This daie alle ye Classe of Ninetie-Eight doth feele  
 verie glumme and wear blacke, it being ye first anniverserie of Blacke  
 Wednesdaie, on which daie they were alle done uppe at feet balle, burnt  
 in effigie, and in a sorrie plighte from ye cane rush. These poore Freshies  
 did seem stranglie to believe feet balle to be a halfe breede of croquette  
 and ye staide old game of golfe; they could not keepe their banners and  
 signes. Ye bande played on, and ye lusty men of Ninety-Seven played on  
 ye knobbe of ye poor Fresh till he took his little paddies offe ye cane, and  
 did sore wish he had not come. Ye feet balle was 10 toe 0, and ye cane  
 20 toe 9.

November 13. Master Montieth did rest this daie and doe no work.

December 3. This daie of greate excitement in ye halle of Engineering.  
 Master MacGanne, after a long absence in that marvelous countree,  
 Venezuela, did suddenlie appear, ye mighte brane alle agogge with patriotism  
 and ire towards one J. Bulle. Toppe of Hunnewell's desk, bothe feete on  
 his laste drawing, Master M. beganne an address. Course X. kindergarten  
 was hushed. Master Bramhalle's jaw, then vibrating at his usual rate, was  
 regulated with a gagge. Hawkins stopped working over timme, Hamblet  
 smiled, Mosely came out of his cage, a blue snow was seen to falle, and  
 amidst these strange portents he began aganne. "Ye time had come to be  
 uppe and doing! We should equip and man ye Amaranth! Classes had



built that ship for twenty yeares, but toe make her ready and to go to war to save a sister nation, without an education, from utter damnation, remained for ye glorie of ye great classe of Ninetie-Seven. (Applause.) 'Twas easy done. His friende Dodge could be counted on to jolly ye Bursar into advancing ye necessary monies, and ye classe would have nothing to doe but the worke. Hosforde could furnish fuel for ye gas engines, under ye Pebo's watchful eye; Lanza could apply mechanicks generallie; and Proffe Crosse, by means of ye cunning aid of light interferences, could make ye Amaranth invisible to ye doughty Briton. As for guns for ye fore turrete, put side bye side would be Drew and Bramhall. Here this freeman's enthousiasm did cause his jaw to break its fastenings, and starte off at 420. r. p. m.; he was then put out by ye doughty Course II. feet balle team. Free Hand Charlie and Tone were heavie ordinance for ye rear turret, any olde Ninetie-Six man for figure heade, and Linus Faunce would make invulnerable side armour." Master Fielde said that he had worked everie one he ever met, and he did stronglie believe that with ye helpe of Feelie he could worke one of ye big guns. He was at once assigned to Mason, Porte Barbette. Father Boreland, who did just come in to borroe a tryangle, saide he would be stewarde if somme one would loan him ye stove. A sade summons from ye Secretarie for Master MacGanne did here stope ye work.

December 4. Master MacGanne sails for Cuba.

December 12. Herr Blachstein's class doe reade of ye "ameleorations of ye steame engine."

December 15. Toe goode men perish in ye quicque sandes of ye Engineering Allie.

December 19. Bramhall ceaseth to whistle Daisy Belle; gets to worke on "I don't want to play in your yarde."

December 23. Ye admiring friendes of one L. Bernard doe give him a fireproof cigarette holder.

December 25. Manie gifts received by all ye push.

December 31. What happen'd this daie no man knoweth.







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BUTLER AMES.

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ALBERT WILLIAM THOMPSON.

CONRAD HENRY YOUNG.

### Senior Class History.



THE poet has said, "Happy the class that has no history." If the poet is to be believed, then indeed is Ninety-Six the most miserable class alive. This is obviously absurd; let us then, amend the poet's proposition to read, "Happy the class that has such a history as Ninety-Six, and happy the veracious chronicler whose duty and pleasure it is to recall to the sons of men reminiscences of her mighty deeds."

The balmy September of 1892 witnessed, among other events of lesser note, a new dawn on the horizon of Technology, giving promise of a day of unusual splendor. The event referred to, in the foregoing metaphor, was the advent of the Class of Ninety-Six, destined to occupy in future ages a topmost shelf in the china-

closet of fame. We know not at this moment whether this weighty event was heralded by special supernatural portents,\* by signs in the heavens, or by strange astronomical combinations, for the birth of a great event, as of a great man, is often beclouded by the obscurity of commonplaceness.



This new class gave signs at an early age of most unusual precocity, repelling, with untterrified ranks, the onslaught of the Sophs, and winning the first cane rush "hands down." The class was now fairly started on its triumphal march to fame. Now began the fulfillment of the glorious promise of distinction in all walks of Technology life: but why linger over the scenes of our youthful triumphs already inscribed in the records of the past? The second year in the history of the class opened as auspiciously as the first, and also, like the first, was a continuous epic poem of success.

Having arrived at the dignity of Sophomorehood, the now well-seasoned veterans could look down with a feeling of amiable condescension upon their verdant successors,—and, to speak frankly, upon their predecessors as well. Victories crowded fast upon the heels of victories. Football game and cane rush were won with ease. "All trivial, fond records" of the Athletic Club were ruthlessly demolished, and a lesson in practical athletics was given, by which all future classes may well profit. Meanwhile the sciences were not neglected. Intellectual triumphs were wrought by all, particularly in "Descrip,"—a subject in which the class endeared itself to the professor's heart with a four-ply endearment. So unwilling was the "loveable Linus" to part with us all at once, that by the subtle and convincing argument of a single letter,† he persuaded a solid phalanx of one hundred and sixty of our brilliant classmen to reconsider the subject with him.

The Junior year was not one whit behind the two preceding years in bringing honors to the class of Ninety-Six. Junior Week was celebrated with unusual festivities, and the different Technology organizations gave their performances in a most enjoyable manner, and made an acceptable background for the Junior Assembly. Activity greater than ever before was manifested. That formidable subject known as "Heat," a word sometimes considered synonymous with "Hades," had no terrors for Ninety-Six. On the contrary, the genial and magnetic charm of Professor Clifford's "as is obvious" is one of our most cherished memories. But why particularize these various occurrences, over all of which shines the steady



\* It was; a new Tabular View appeared.

† F.

light of success?\* A record of continual successes may become after a time as monotonous as a record of continual failures.

The dignity and glory of Senior year has come at last; the minor victories are merged in the one great and glorious conquest, the pinnacle is reached, the summit gained, the goal of the student hope attained. With the dignity and deliberation born of an assured position, the class meets, it takes counsel, it chooses its class officers. So far, well!

The origin of the word "scrap," signifying a somewhat vigorous method of settling a difference of opinion, is disputed; however, had it been made especially for this history, it could not better describe the event which we shall herein touch upon, without attempting to describe. There have been mighty battles in the history of this gray-haired, old world of ours, but it is hardly an exaggeration to say that all which went before was as the sport of innocent childhood, when compared with the combat, the turmoil, the fracas, the "scrap," which followed the appointment of a committee to take charge of the nomination and election of the favored few who are to stand at the helm during the storm of Class Day applause.

But all this has passed. The optimistic class has tried again, and even now the blot has faded away. Ninety-Six has risen superior to all interne-cine dissensions; and, if we may presume to prophesy, with its members again brought together by the common suffering endured on the journey through the wilderness of Theses, will appear united once more on Class Day. Then like a rocket which has reached its zenith, and whose upward course has called forth the admiration of countless thousands, Ninety-Six will burst asunder, and hurl its glittering stars over the duly dazzled earth.†

‡ And if, perchance, unto her lot  
Did trivial errors fall,  
Look on the record of her deeds,  
And you'll forget them all.



\* Please do not blow out the gas.

† Look out for the stick.

‡ The fact that slight ambiguity exists in this verse, does not in any way affect its merit —Editors.

## CLASS COLORS AND YELLS.



### CLASS OF NINETY-SIX.

Colors: Crimson and Black.

#### Yells.

Rackety-rix, co-ix, co-ix!  
Rackety-rix, co-ix, co-ix!  
Heigh-ro-kee! Heigh-ro-kee!  
Ninety-Six! Ninety-Six! M. I. T.!

Boom-a-lacky! Boom-a-lacky!  
Sis-boom-bah!  
Ninety-Six! Ninety-Six!  
Rah! Rah! Rah!

### CLASS OF NINETY-SEVEN.

Colors: Orange and Black.

#### Yell.

Tech! Rah! Rah!  
Tech! Boom! Bah!  
Ninety-Seven! Ninety-Seven!  
Rah! Rah! Rah!

### CLASS OF NINETY-EIGHT.

Colors: Blue and Gray.

#### Yell.

Ninety-Eight! Ninety-Eight! Rah, Rah! Rah, Rah!  
Ninety-Eight! Ninety-Eight! Rah, Rah! Rah, Rah!  
Hoo-rah! Hoo-rah!  
M. I. T.! Ninety-Eight!  
Rah! Rah! Rah!

### CLASS OF NINETY-NINE.

Colors: Blue and Gold.

#### Yell.

Who are we? Who are we?  
Ninety-Nine! Ninety-Nine! M. I. T.!





## GREEK-LETTER FRATERNITIES

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

# SIGMA CHI.

## CHAPTER ROLL.

1855.	Gamma.	Ohio Wesleyan University	Delaware, Ohio.
1857.	Eta.	University of Mississippi	Oxford, Miss.
1858.	Lambda.	Indiana University	Bloomington, Ind.
1859.	Xi.	De Pauw University	Greencastle, Ind.
1859.	Omicron.	Dickinson College	Carlisle, Penn.
1859.	Psi.	University of Virginia	Charlottesville, Va.
1863.	Alpha Chi.	Pennsylvania College	Gettysburg, Penn.
1863.	Theta.	Gettysburg College	Gettysburg, Penn.
1864.	Kappa.	Bucknell University	Lewisburg, Penn.
1866.	Zeta.	Washington and Lee University	Lexington, Va.
1866.	Rho.	Butler University	Irvington, Ind.
1867.	Mu.	Denison University	Granville, Ohio.
1869.	Omega.	Northwestern University	Evanston, Ill.
1871.	Chi.	Hanover College	Hanover, Ind.
1872.	Sigma Sigma.	Hampden-Sydney College	Hampden-Sydney, Va.
1873.	Beta.	University of Wooster	Wooster, Ohio.
1874.	Gamma Gamma.	Randolph-Macon College	Ashland, Va.
1874.	Delta Delta.	Purdue University	Lafayette, Ind.
1876.	Zeta Zeta.	Center College	Danville, Ky.
1880.	Delta Chi.	Wabash College	Crawfordsville, Md.
1882.	Zeta Psi.	University of Cincinnati	Cincinnati, Ohio.
1882.	Alpha Gamma	Ohio State University	Columbus, Ohio.
1882.	Alpha Zeta.	Beloit College	Beloit, Wis.
1882.	Alpha Theta.	Mass. Institute of Technology	Boston, Mass.
1883.	Alpha Delta.	Stevens Institute of Technology	Hoboken, N. J.
1883.	Alpha Epsilon.	University of Nebraska	Lincoln, Neb.
1883.	Alpha Iota.	Illinois Wesleyan University	Bloomington, Ill.
1883.	Alpha Lambda.	Wisconsin State University	Madison, Wis.
1884.	Alpha Xi.	University of Kansas	Lawrence, Kansas.
1884.	Alpha Nu.	University of Texas	Austin, Texas.
1886.	Alpha Omicron.	Tulane University	New Orleans, La.
1886.	Alpha Pi.	Albion College	Albion, Mich.
1886.	Alpha Beta.	University of California	Berkeley, Cal.
1886.	Alpha Rho.	Lehigh University	Bethlehem, Penn.
1888.	Alpha Sigma.	University of Minnesota	Minneapolis, Minn.
1889.	Alpha Tau.	University of North Carolina	Chapel Hill, N. C.
1889.	Alpha Upsilon.	University of Southern California	Los Angeles, Cal.
1890.	Alpha Phi.	Cornell University	Ithaca, N. Y.
1892.	Alpha Psi.	Vanderbilt University	Nashville, Tenn.
1892.	Alpha Omega.	Leland Stanford, Jr., University	Menlo Park, Cal.
1893.	Eta Eta.	Dartmouth College	Hanover, N. H.
1893.	Alpha.	Miami University	Oxford, Ohio.
1893.	Alpha Alpha.	Hobart College	Geneva, N. Y.
1893.	Kappa Kappa.	University of Illinois	Champaign, Ill.
1894.	Lambda Lambda.	Kentucky State College	Lexington, Ky.
1894.	Nu Nu.	Columbia College	New York City, N. Y.
1894.	Epsilon.	Columbian University	Washington, D. C.
1895.	Mu Mu.	West Virginia University	Morgantown, W. Va.

# SIGMA CHI.

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## ALPHA THETA CHAPTER.

Established March 22, 1882.

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### MEMBERS.

DICKSON QUEEN BROWN.  
FINLAY FORBES FERGUSON.  
WILLIAM HENRY FOX.  
HENRY BROWN GRAHAM.  
JAMES THOMAS HARAHAN, JR.  
LEWIS ANDREWS HAYDEN.  
EDWARD RUDOLPH HEISSLER.  
ROBERT GRANT HOLABIRD.  
RHODES GREENE LOCKWOOD.

GUY MAGEE, JR.  
CHARLES BODWELL PAINE.  
JOHN SHELLEY PECHIN.  
HARRY DUSTAN RAWSON.  
EDWIN HUGHES ROBERTS.  
JAMES FRANCIS SICKMAN.  
LUCIUS SPAULDING TYLER.  
FRANK ALBERT WERNER.  
ERNEST WOODYATT.

WALTER GUSTAVE ZIMMERMANN.

### Fratres in Urbe.

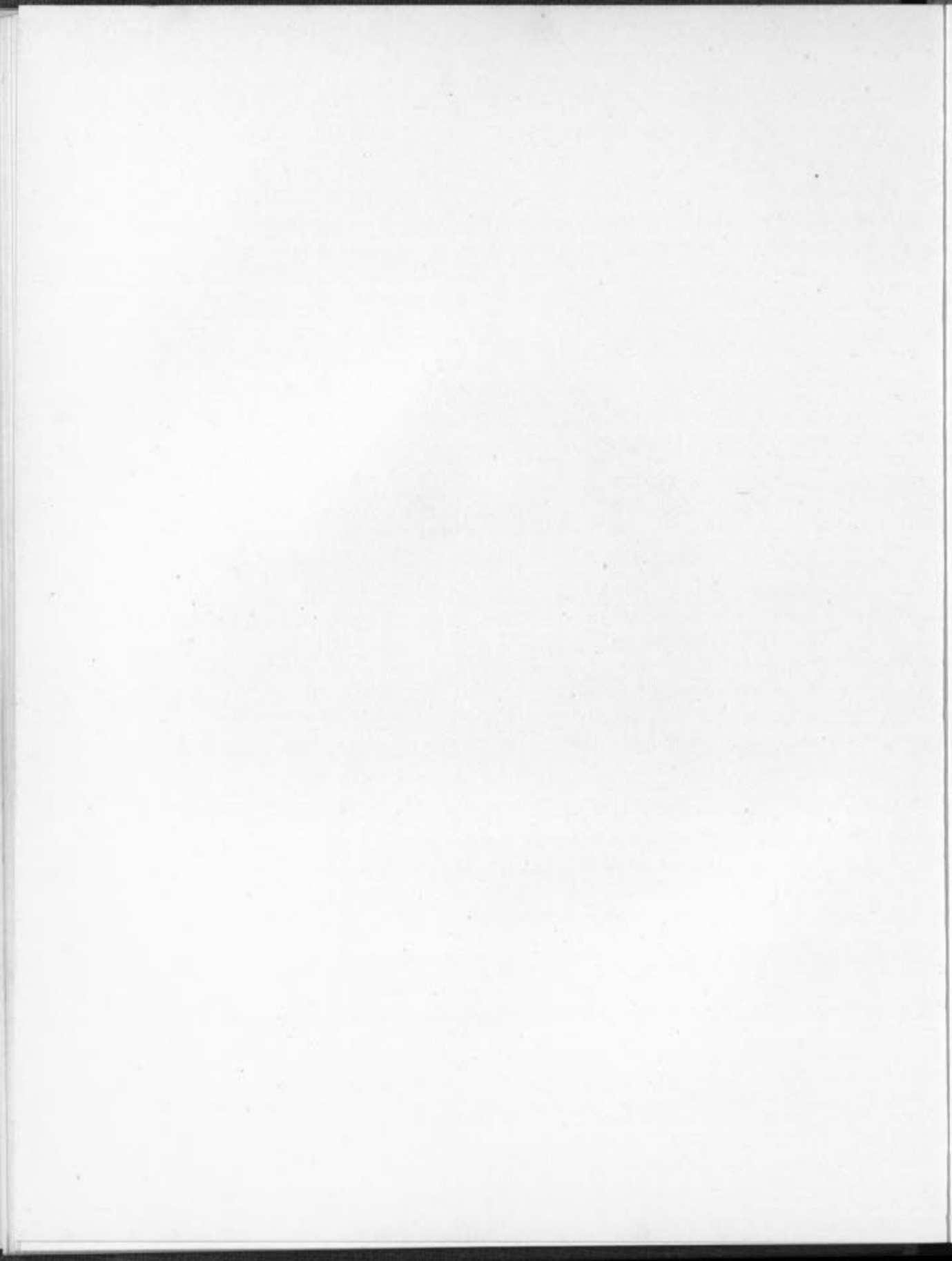
H. T. BARDWELL.  
W. W. CUTLER.  
J. A. HIGHLANDS.

C. E. LOCKWOOD.  
C. L. NUTTER.  
F. OSGOOD.

F. L. PIERCE.



DEKKA PHILA



## THETA XI.

---

### CHAPTER ROLL.

- A. Rensselaer Polytechnic Institute . . . . . Troy, N. Y.
- B. Yale College . . . . . New Haven, Conn.
- Γ. Stevens Institute of Technology . . . . . Hoboken, N. J.
- Δ. Massachusetts Institute of Technology . . . . . Boston, Mass

## THETA XI.

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### DELTA CHAPTER.

---

#### MEMBERS.

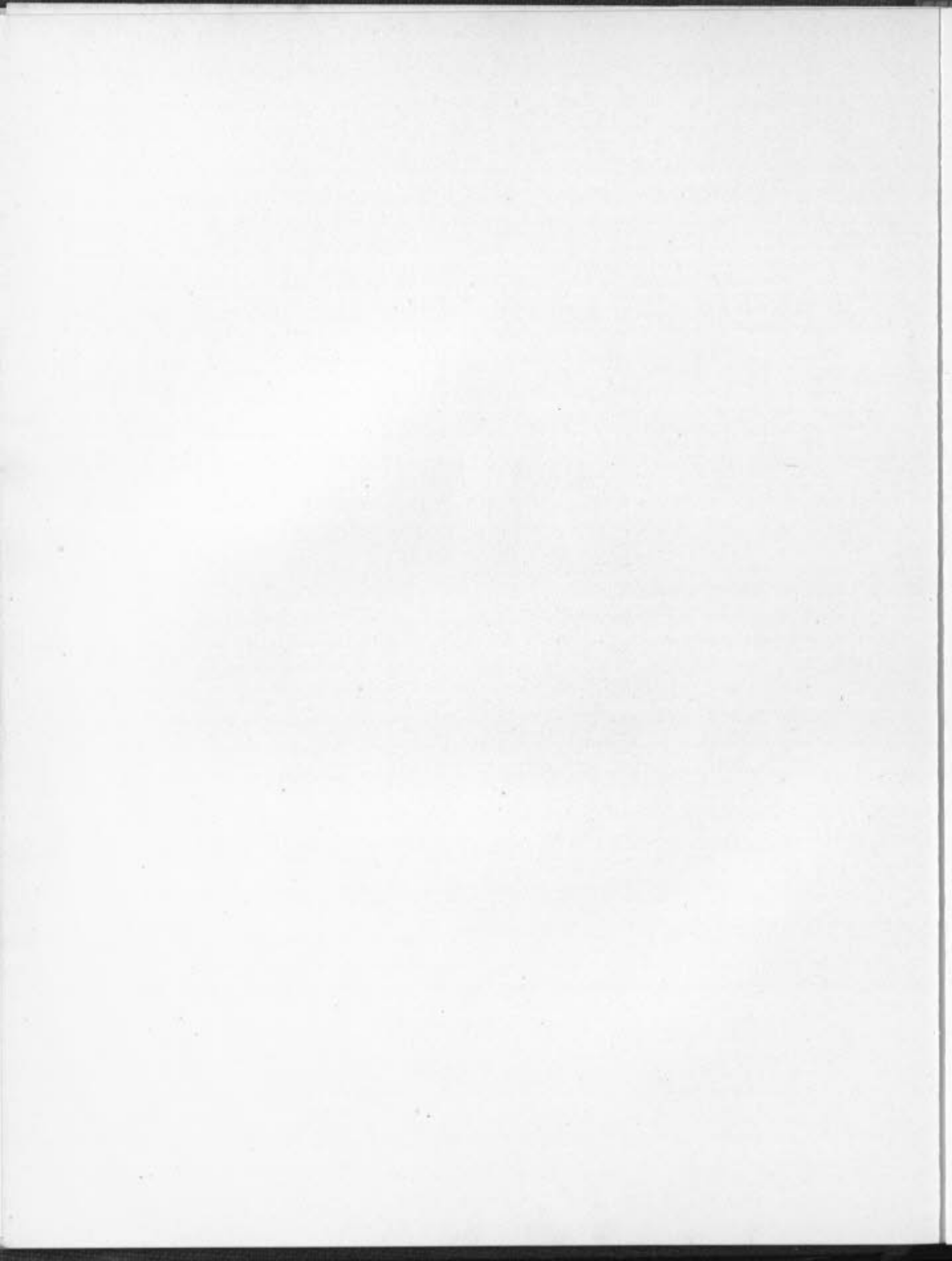
MARK WEBB ALLEN.  
BUTLER AMES.  
WILLIAM POPE ANDERSON, JR.  
HENRY KIMBERLY BABCOCK.  
JOSEPH BANCROFT.  
GEORGE EDWIN BEIGSTROM.  
WALTER TRUMBULL CAMP.  
WILLIAM HENRY CLIFFORD, JR.  
FRANKLIN WHITNEY DOLIBER.  
DAVID DUDLEY FIELD.  
RUSSELL HALL.

ARTHUR LITTLE HAMILTON.  
RICHARD STANLEY HOWLAND.  
TIMOTHY WRIGHT HOXIE.  
EDWARD JOHNSON, JR.  
JOHN ARNOLD ROCKWELL, JR.  
RALPH ROLLINS RUMERY.  
PEDRO SANCHEZ Y BATISTA.  
JAMES WARNER SHOOK.  
EDWARD STURTEVANT.  
JAMES WINTHROP TEWKSBURY.  
PEDRO URQUIZA Y BEA.



*Danlos, Phila.*





## DELTA PSI.

### CHAPTER ROLL.

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

## DELTA PSI.

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### TAU CHAPTER.

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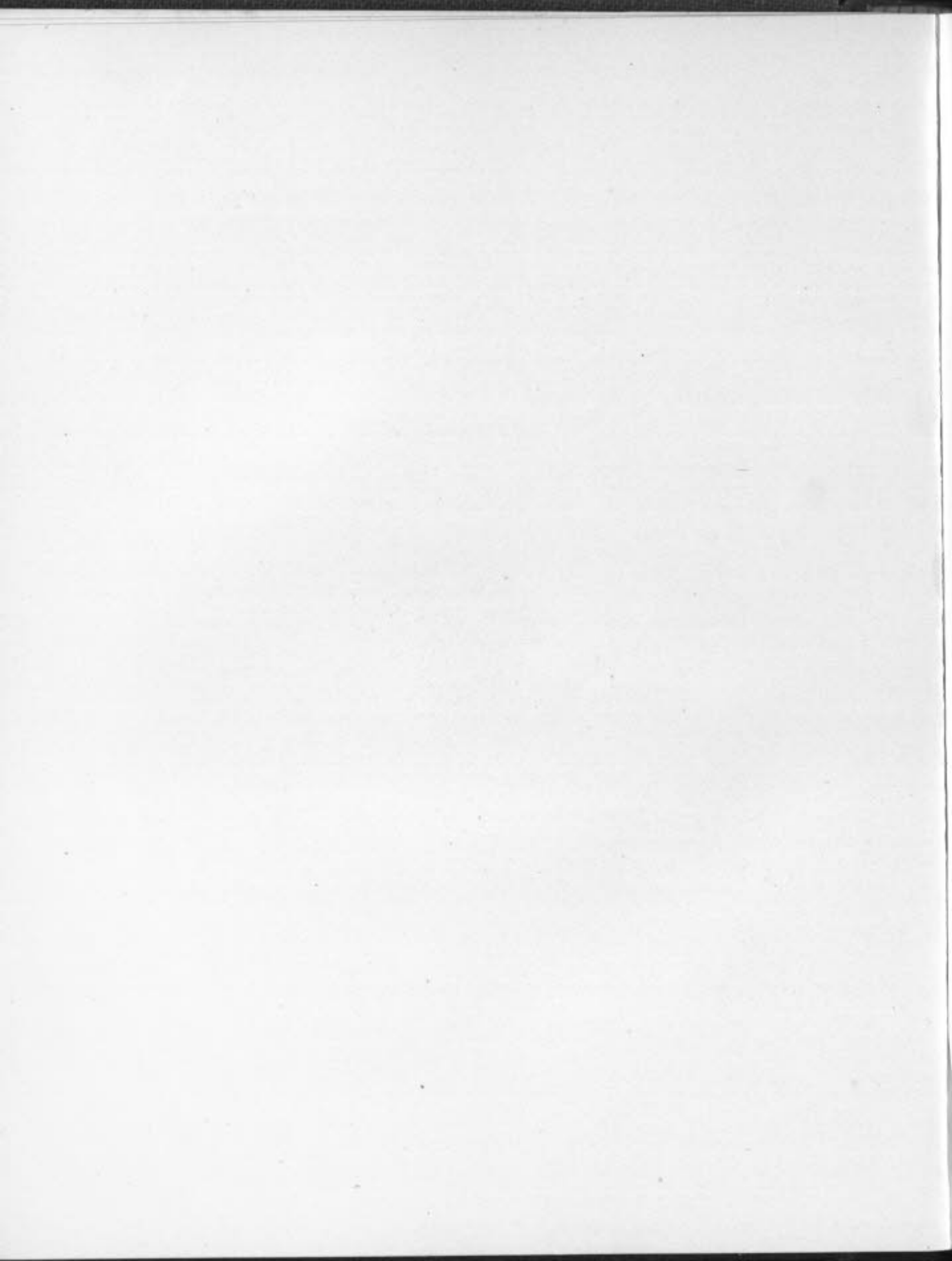
#### MEMBERS.

HENRY WALTER ALLEN.  
WILFRED BANCROFT.  
DANIEL MOORE BATES, JR.  
JOHN STEARNS BLEECKER.  
ALBERT EDMUND CLUETT.  
HENRY MIDDLEBROOK CRANE.  
ROBERT FRAZER, JR.  
JOHN CAMERON GREENLEAF.  
JOHN PARKER ILSLEY, JR.  
SAMUEL FOSDICK JONES.

MALCOLM HOBART MCGANN.  
BRYCE METCALF.  
HENRY GRANT MORSE, JR.  
WALTER PAGE.  
WILLIAM THORNTON PARKER, JR.  
EDWARD BRIDGE RICHARDSON.  
ANDREW LE BARON RUSSELL.  
ROLAND WILLIAMS STEBBINS.  
ALBERT LORING SWASEY.  
RICHARD BENEDICT VAN HORNE.



Proctor



# CHI PHI.

## CHAPTER ROLL.

A.	University of Virginia . . . . .	Charlottesville, Va.
B.	Massachusetts Institute of Technology . . . . .	Boston, Mass.
C.	Emory College . . . . .	Oxford, Ga.
D.	Rutgers College . . . . .	New Brunswick, N. J.
E.	Hampden-Sydney College . . . . .	Hampden-Sydney, Va.
F.	Franklin and Marshall College . . . . .	Lancaster, Penn.
G.	University of Georgia . . . . .	Athens, Ga.
H.	Rensselaer Polytechnic Institute . . . . .	Troy, N. Y.
I.	Ohio State University . . . . .	Columbus, Ohio.
J.	University of California . . . . .	Berkeley, Cal.
K.	Stevens Institute of Technology . . . . .	Hoboken, N. J.
L.	University of Texas . . . . .	Austin, Tex.
M.	Cornell University . . . . .	Ithaca, N. Y.
N.	Sheffield Scientific School, Yale College . . . . .	New Haven, Conn.
O.	Vanderbilt University . . . . .	Nashville, Tenn.
P.	Lafayette College . . . . .	Easton, Penn.
Q.	Wofford College . . . . .	Spartanburg, S. C.
R.	College of South Carolina . . . . .	Columbia, S. C.
S.	Amherst College . . . . .	Amherst, Mass.
T.	Lehigh University . . . . .	So. Bethlehem, Penn.

## CHI PHI.

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### BETA CHAPTER.

---

#### MEMBERS.

JAMES SAXTON BARBER.	CARLETON SPAYTH KOCH.
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WILLIAM DANIELS BLACKMER.	CHARLES PERKINS MOAT.
GEORGE WINSLOW BROWN.	HOWARD AGNEW NOBLE.
EDWARD ASHLEY EAMES.	CARL SCHUTTLE.
WILLIAM ALECK FAXON.	BENJAMIN HALSTED SHEPARD.
HARRY GEORGE FISK.	GEORGE FREDERICK ULMER.
ALEXANDER RIEMAN HOLLIDAY.	ARTHUR PERLEY UNDERHILL.
WALTER CHAUNCEY WATROUS.	

#### Fratres in Urbe.

HERBERT EUGENE DAVIS.	HARRY SARGENT GILMAN.
JAMES VAUGHAN DENNETT.	LEONARD CHASE WASON.
WILLIAM HARTLEY DENNETT.	HERBERT JEREMIAH WATSON.



*Irish Photo.*





# DELTA KAPPA EPSILON.

## CHAPTER ROLL.

Phi.	Yale University . . . . .	1844
Theta.	Bowdoin College . . . . .	1844
Xi.	Colby University . . . . .	1845
Sigma.	Amherst College . . . . .	1846
Gamma	Vanderbilt University . . . . .	1847
Psi.	University of Alabama . . . . .	1847
Upsilon.	Brown University . . . . .	1850
Chi.	University of Mississippi . . . . .	1850
Beta.	University of North Carolina . . . . .	1851
Eta.	University of Virginia . . . . .	1852
Kappa.	Miami University . . . . .	1852
Lambda.	Kenyon College . . . . .	1852
Pi.	Dartmouth College . . . . .	1853
Iota.	Central University of Kentucky . . . . .	1854
Alpha Alpha.	Middlebury College . . . . .	1854
Omicron.	University of Michigan . . . . .	1855
Epsilon.	Williams College . . . . .	1855
Rho.	Lafayette College . . . . .	1855
Tau.	Hamilton College . . . . .	1856
Mu.	Colgate University . . . . .	1856
Nu.	College of the City of New York . . . . .	1856
Beta Phi.	University of Rochester . . . . .	1856
Phi Chi.	Rutgers College . . . . .	1861
Psi Phi.	De Pauw University . . . . .	1866
Gamma Phi.	Wesleyan University . . . . .	1867
Psi Omega.	Rensselaer Polytechnic . . . . .	1867
Beta Chi.	Adelbert College . . . . .	1868
Delta Chi.	Cornell University . . . . .	1870
Delta Delta.	Chicago University . . . . .	1870
Phi Gamma.	Syracuse University . . . . .	1871
Gamma Beta.	Columbia College . . . . .	1874
Theta Zeta.	University of California . . . . .	1876
Alpha Chi.	Trinity College . . . . .	1879
Phi Epsilon.	University of Minnesota . . . . .	1889
Sigma Tau.	Massachusetts Institute of Technology . . . . .	1890

# DELTA KAPPA EPSILON.

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## SIGMA TAU CHAPTER.

---

### Fratres in Facultate.

FRANCIS AMASA WALKER.

ALFRED EDGAR BURTON.

### MEMBERS.

GEORGE BURNHAM.

WINTHROP COOLIDGE.

WILLIAM HENRY CUTLER.

GEORGE MCMURTRIE GODLEY.

ROBERT SAMUEL HARDY.

ISAAC BREWSTER HAZELTON.

OSWALD CONSTANTIN HERING.

HENRY FORD HOIT.

WALTER HUMPHREYS.

CHARLES GILMAN HYDE.

ALLAN WINCHESTER JACKSON.

PAUL DE BLOIS LAIGHTON.

WILLIAM CHAPMAN POTTER.

ARGYLE EGGLESTON ROBINSON

WILLIAM OTIS SAWTELLE.

HAVEN SAWYER.

JAMES SWETT SMYSER.

WILLIAM HENRY TEW.

MAURICE DE KAY THOMPSON, JR.

THURLOW WASHBURN.

RALPH SPELMAN WHITING.

DAVID LA FOREST WING.

### Fratres in Urbe.

EDMOND ENOS BLAKE.

FREDERIC CHAMBERS BLANCHARD.

HARRY PUMPHREY CODDINGTON.

ARTHUR GEORGE FARWELL.

WILLIAM STUART FORBES.

GAYLE TILTON FORBUSH.

ARTHUR EDWIN FOWLE.

GEORGE EARNEST MERRILL.

LEONARD METCALF.

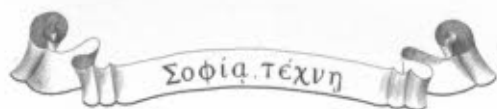
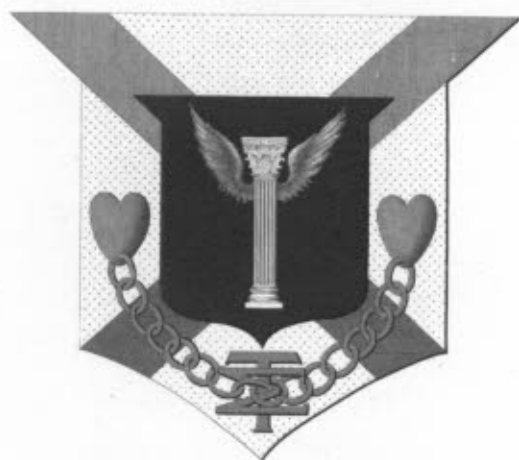
HENRY ORLANDO MARCY, JR.

ROBERT KIMBALL SHEPPARD.

JAMES SWAN.

EDWARD AUSTIN TUCKER.

GEORGE VINCENT WENDELL.





# PHI BETA EPSILON.

Founded 1890.

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LOCAL AT TECHNOLOGY.

## PHI BETA EPSILON.

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### MEMBERS.

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IRÉNÉE DU PONT.	BENJAMIN HURD, JR.
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GEORGE ISAAC FISKE.	THOMAS EDDY TALLMADGE.

RAYMOND SMITH WILLIS.

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AZEL AMES, 3D.	GEORGE MASON LANE.
AUSTIN DUNHAM BOSS.	FRANK WILLIAM LOVEJOY.
STEPHEN BOWEN.	RAYMOND BEACH PRICE.
FRED ALLEN COLE.	GEORGE WHITEFIELD FAY REED.
HENRY ANTHONY FISKE.	GEORGE WILMARTH SHERMAN.
SUMNER HATHERLY FOSTER.	JAMES WINTHROP THOMAS.
ANDREW DANIEL FULLER.	JOHN GIFFORD THOMSON.
GEORGE MASON HAWES.	CHARLES NELSON WRIGHTINGTON.



*Drakon Philon*





# DELTA UPSILON.

Founded at Williams College, 1834.

## CHAPTER ROLL.

1834.	Williams . . . . .	Williamstown, Mass.
1838.	Union . . . . .	Schenectady, N. Y.
1847.	Hamilton . . . . .	Clinton, N. Y.
1847.	Amherst . . . . .	Amherst, Mass.
1847.	Adelbert . . . . .	Cleveland, Ohio.
1852.	Colby . . . . .	Waterville, Me.
1852.	Rochester . . . . .	Rochester, N. Y.
1856.	Middlebury . . . . .	Middlebury, Vt.
1857.	Bowdoin . . . . .	Brunswick, Me.
1858.	Rutgers . . . . .	New Brunswick, N. J.
1860.	Brown . . . . .	Providence, R. I.
1865.	Colgate . . . . .	Hamilton, N. Y.
1865.	New York . . . . .	New York City.
1869.	Cornell . . . . .	Ithaca, N. Y.
1870.	Marietta . . . . .	Marietta, Ohio.
1873.	Syracuse . . . . .	Syracuse, N. Y.
1876.	Michigan . . . . .	Ann Arbor, Mich.
1880.	Northwestern . . . . .	Evanston, Ill.
1880.	Harvard . . . . .	Cambridge, Mass.
1885.	Wisconsin . . . . .	Madison, Wis.
1885.	Lafayette . . . . .	Easton, Penn.
1885.	Columbia . . . . .	New York City.
1885.	Lehigh . . . . .	South Bethlehem, Penn.
1886.	Tufts . . . . .	West Somerville, Mass.
1887.	De Pauw . . . . .	Greencastle, Ind.
1888.	Pennsylvania . . . . .	Philadelphia, Penn.
1890.	Minnesota . . . . .	Minneapolis, Minn.
1891.	Technology . . . . .	Boston, Mass.
1894.	Swathmore . . . . .	Swathmore, Penn.
1895.	California . . . . .	Berkeley, Cal.
1895.	Leland Stanford, Jr. . . . .	Palo Alto, Cal.

# DELTA UPSILON.

## TECHNOLOGY CHAPTER.

### Fratre in Facultate.

FRANK VOGEL.

### MEMBERS.

JOSEPH WARD CLARY.  
FRANK REMICK COOK.  
EDWARD CLAASEN CRAMER.  
HUNTLY WARD DAVIS.  
ALFRED KIMBALL DOWNES.  
WASHINGTON CHARLES DUNN.  
WILLIAM WISE EATON.  
CHARLES WARREN HAPGOOD.  
ETHAN HENRY HOWARD.

ALFRED PRITCHARD SLOAN, JR.  
GRANVILLE SMITH.  
WILLIAM RANDOLPH STRICKLAND.  
EDWARD ALLEYNE SUMNER, JR.  
GEORGE RICHARDS TOWNSEND.  
HERMAN VALENTINE VON HOLST.  
GEORGE REED WADSWORTH.  
ROBERT BRUCE WALLACE.  
WARD WELLINGTON WARD.

THOMAS ROTE WEYMOUTH.

### Fratres in Urbe.

JOSHUA ATWOOD, 3D.  
LOUIS DERR.  
HENRY ATKINSON HOLDREGE.  
ALBERT LINCOLN KENDALL.  
WILLIS TAYLOR KNOWLTON.  
WALTER ELBRIDGE PIPER.  
THOMAS GLEASON RICHARDS

DONALD CLEVELAND SCOFIELD.  
WALTER OSGOOD SCOTT.  
FRANK CUMMINGS SHEPARD.  
ALFRED BALL TENNEY.  
JAMES RUSSELL WELLS.  
WILLIAM CARTELYAN WHISTAN.  
ALFRED EDWARD ZAPF.



Επισημοποιήθηκε το 1951  
ΕΥΡΩΠΑΪΚΟ ΚΑΙ ΚΑΝΟΝΙΚΟ, Α.Ε.



# SIGMA ALPHA EPSILON.

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

## CHAPTER ROLL.

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

## SIGMA ALPHA EPSILON.

### MASSACHUSETTS IOTA TAU CHAPTER.

#### MEMBERS.

RUSSELL SAMUEL BUCHER.  
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FRANKLIN HAYES DAVIS.  
STEPHEN DOW CRANE.  
LOUVILLE EUGENE EMERSON.  
CHESTER FRANCIS DRAKE.  
HARRY WING DYER.  
HOWARD HENRY BURDICK.  
LUZERNE SIMEON COWLES.  
RODOLPHUS ASHLEY SWAN.  
JOHN BARTLEY BRENNEMAN.  
JULES BERNARD BENEDICT.

WALTER MEIGGS BUSH.  
CHARLES HERBERT SWEETZER.  
WILLIAM DEERING STAPLES.  
SALMON WILDER PUTNAM, JR.  
CARDELLA DRAKE BROWN.  
JOHN DE LOSS UNDERWOOD.  
ALEXANDER GILCHRIST HAWES, JR.  
LESLIE CHAPMAN ALLEN.  
EDWARD DEXTER PETTENGILL.  
HOWARD BROWNING COLLINS.  
CHARLES FRANKLIN SMITH.  
HERMAN HORMEL.

EDGAR WARREN NORTON.

#### *Fratres in Colligio.*

SEEBERT LLOYD LAMBORN.

#### *Fratres in Urbe.*

WALLACE CLARK BRACKETT.  
FRANK BIRD MASTERS.  
HERBERT NATHAN DAWES.  
WINSLOW ABBOTT WILSON.

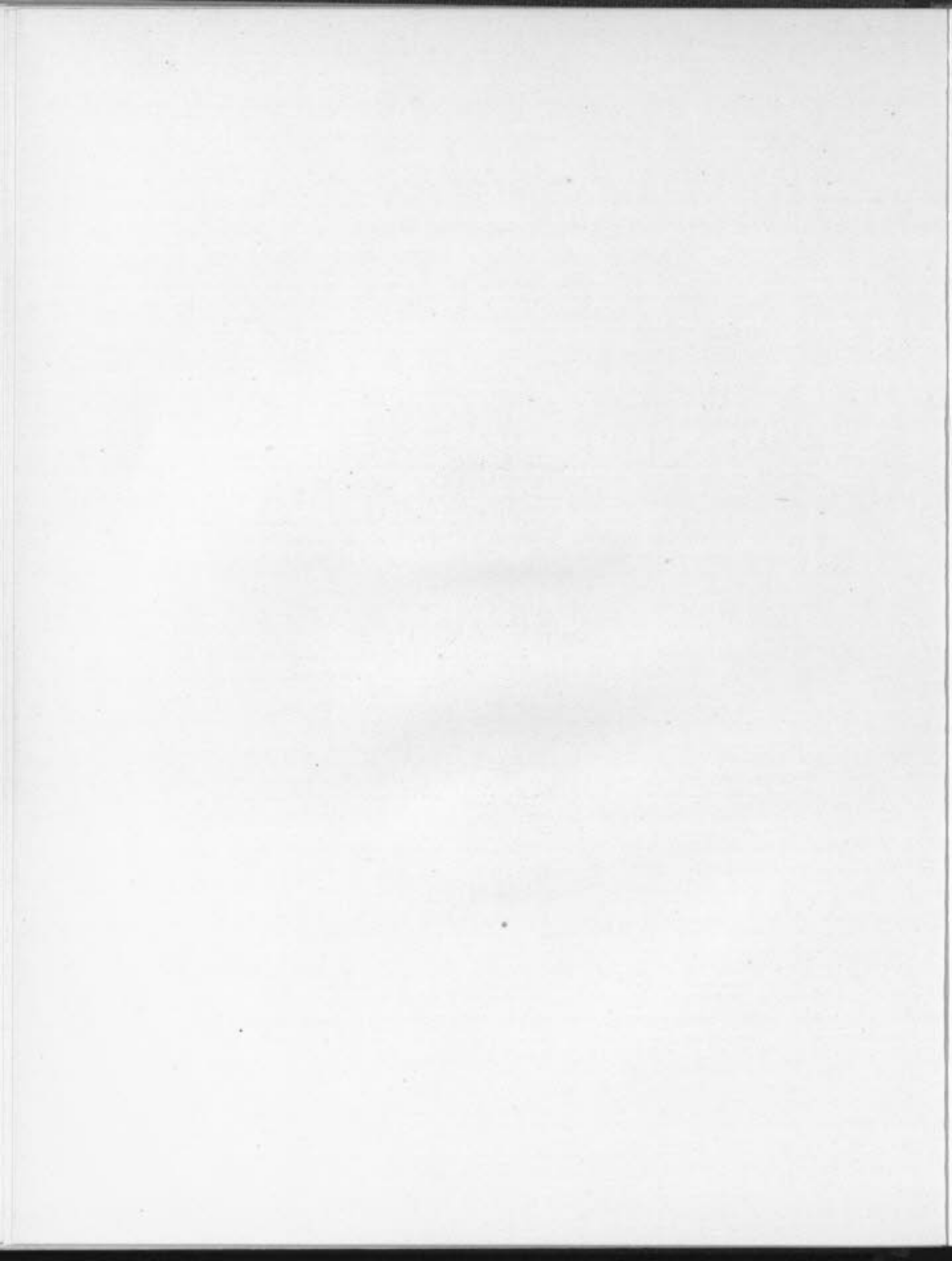
WALTER ROBERT PHEMISTER.  
ALBERT RICHARD BEDDALL.  
RICHARD HENRY PARKER, JR.  
HAROLD CHASE BUCKMINSTER.

HARRINGTON MACK.



*Drake Photo.*





# DELTA TAU DELTA.

Founded at Bethany College, January 1, 1860.

## CHAPTER ROLL.

### Division of the South.

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

### Division of the West.

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

### Division of the North.

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

### Division of the East.

A.	Allegheny College	Meadville, Penn.
Γ.	Washington and Jefferson College	Washington, Penn.
P.	Stevens Institute of Technology	Hoboken, N. J.
Σ.	Williams College	Williamstown, Mass.
T.	Franklin and Marshall College	Lancaster, Penn.
Υ.	Rensselaer Polytechnic Institute	Troy, N. Y.
B. A.	Lehigh University	S. Bethlehem, Penn.
B. M.	Tufts College	College Hill, Mass.
B. N.	Massachusetts Institute of Technology	Boston, Mass.
B. O.	Cornell University	Ithaca, N. Y.

# DELTA TAU DELTA.

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## BETA NU CHAPTER.

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### MEMBERS.

FRANCIS MINOT BLAKE.  
HERBERT WILLIAM CHAMBERLAIN.  
ALFRED STARR HAMILTON.  
AUGUSTUS CLARK LAMB.  
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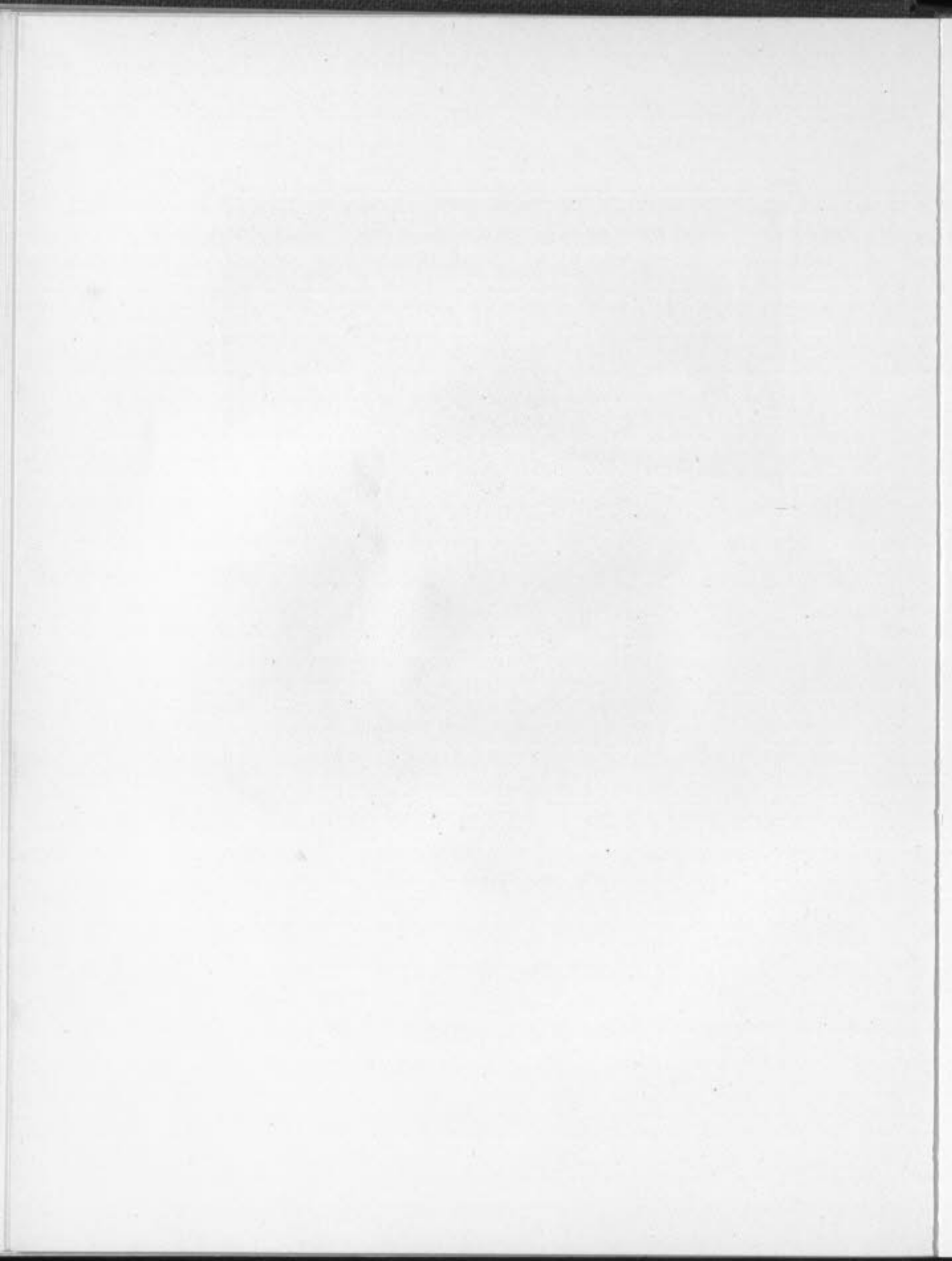
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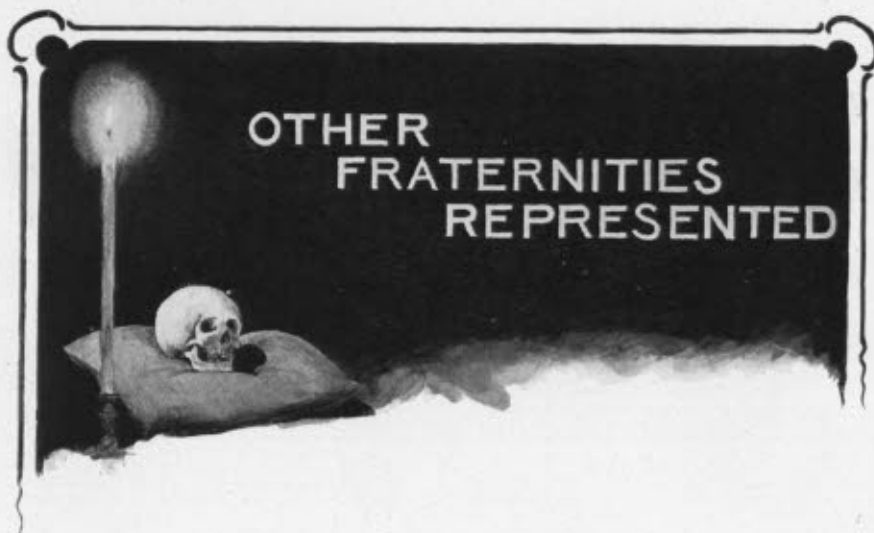
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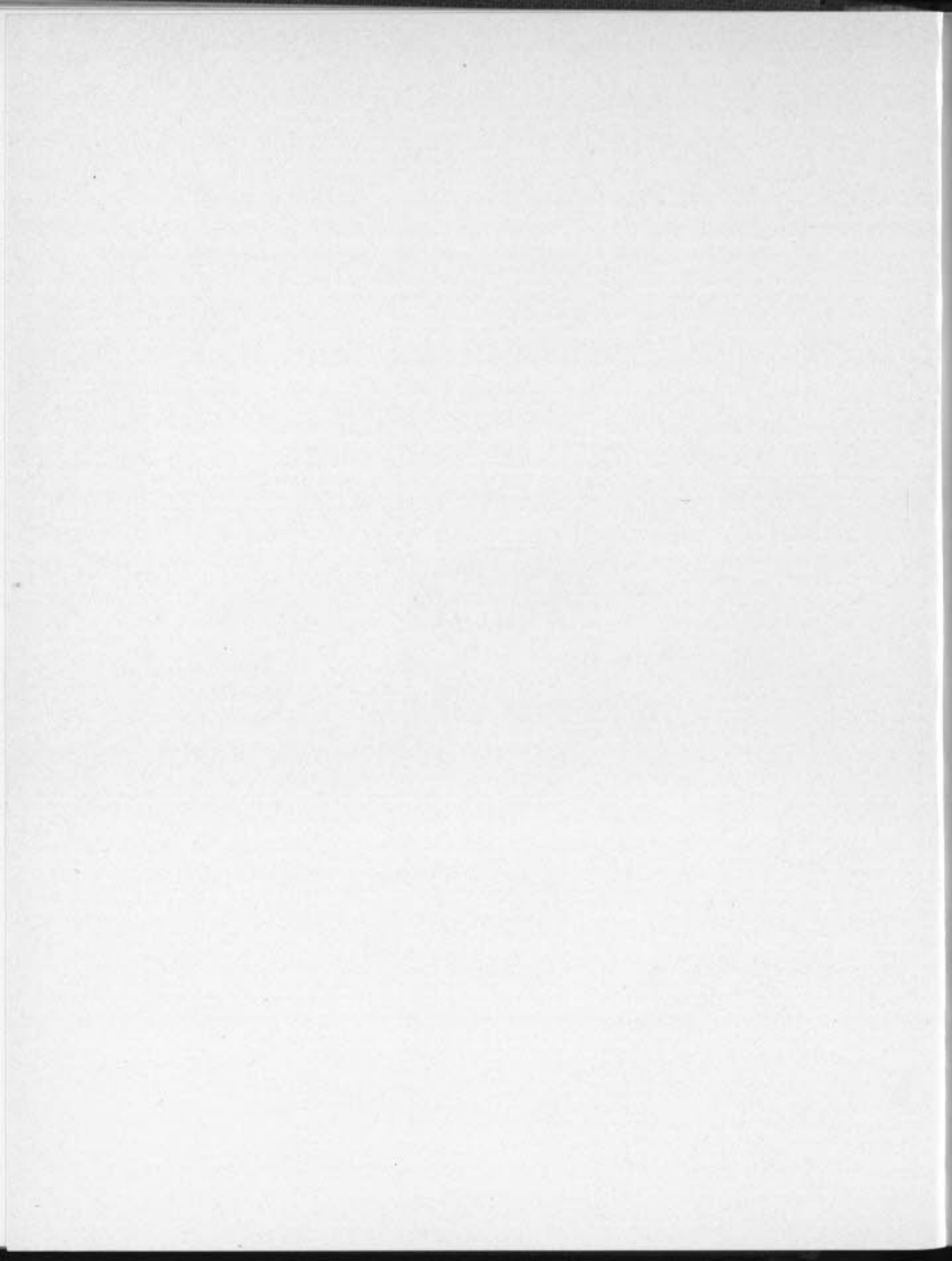
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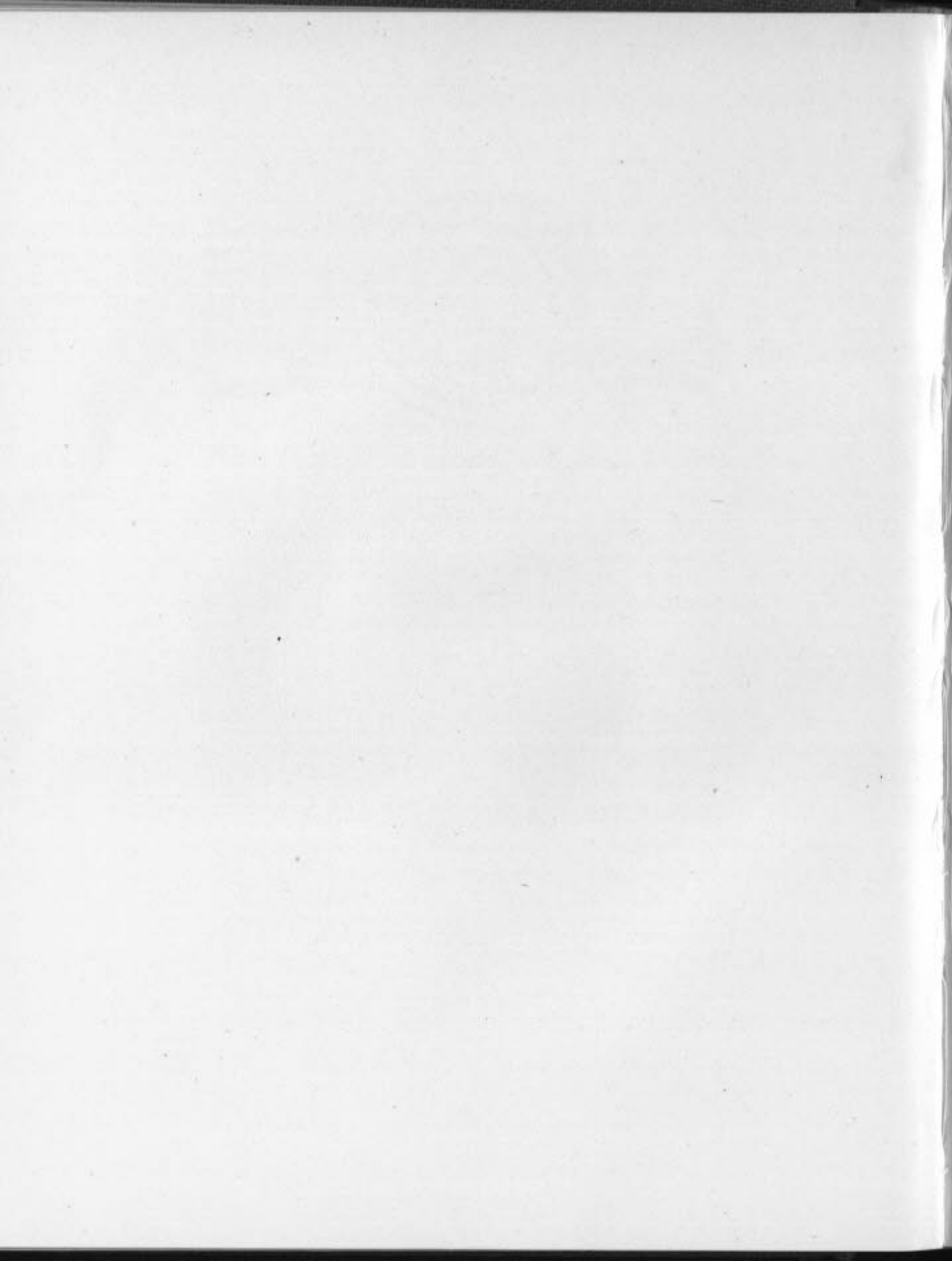
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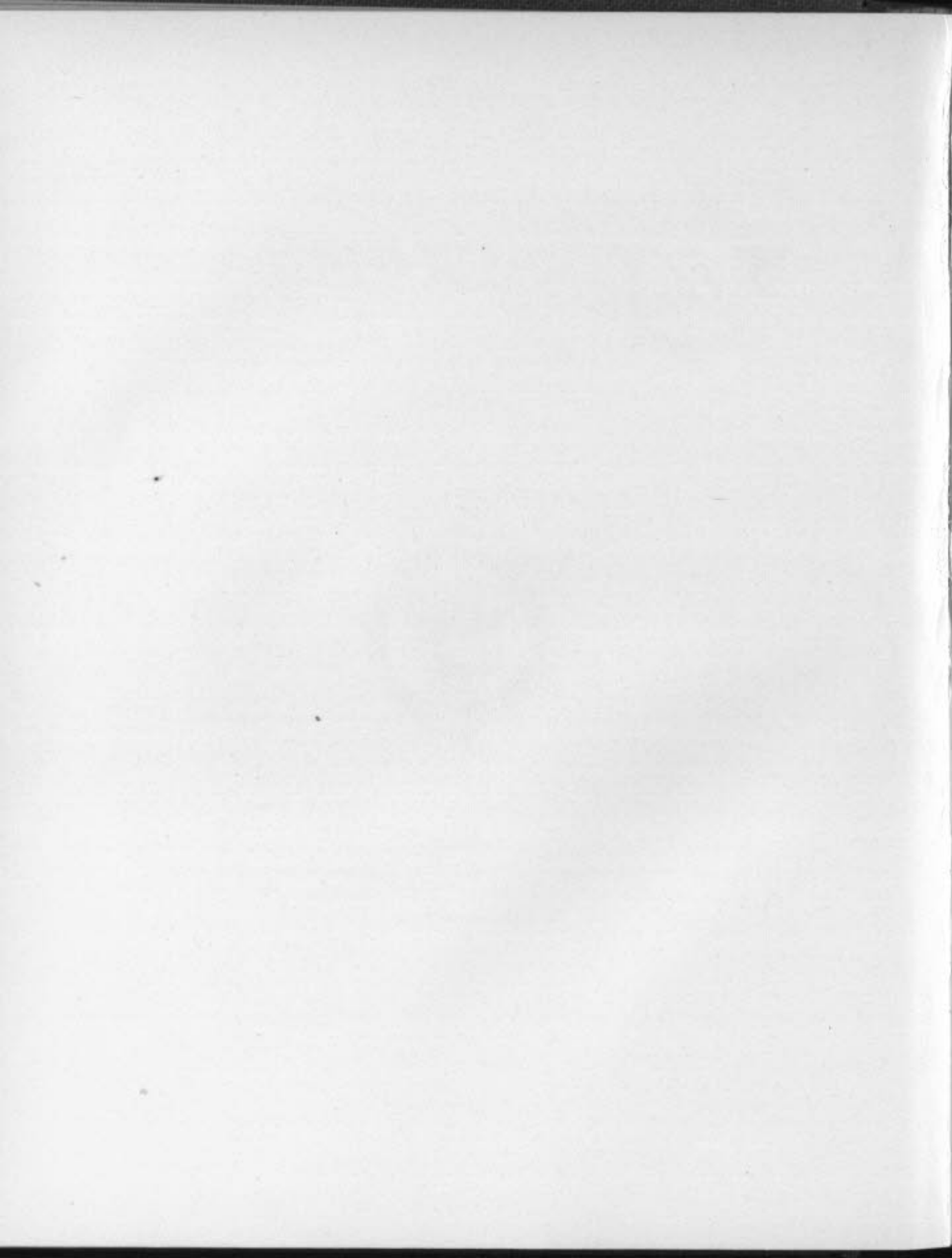
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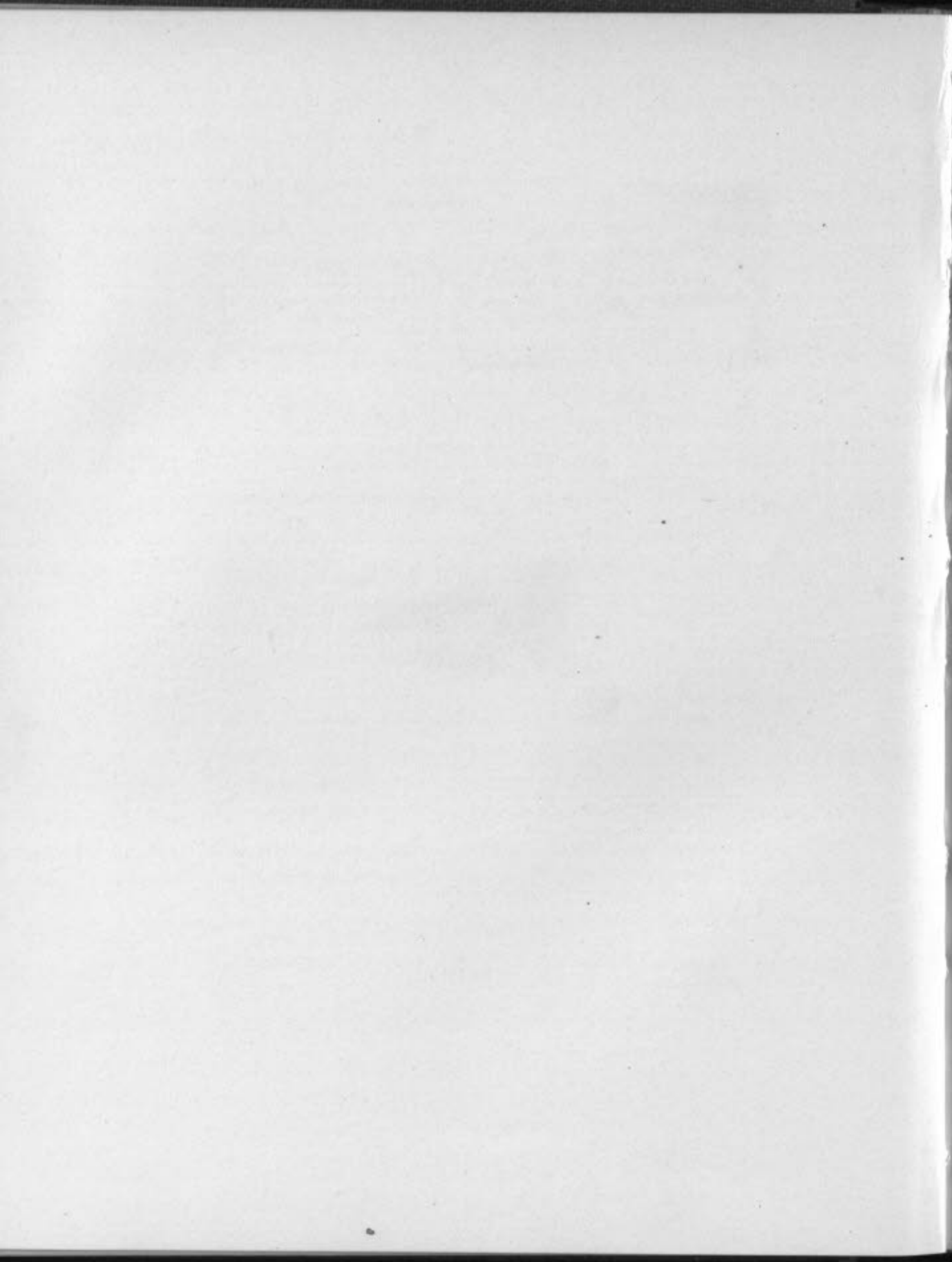
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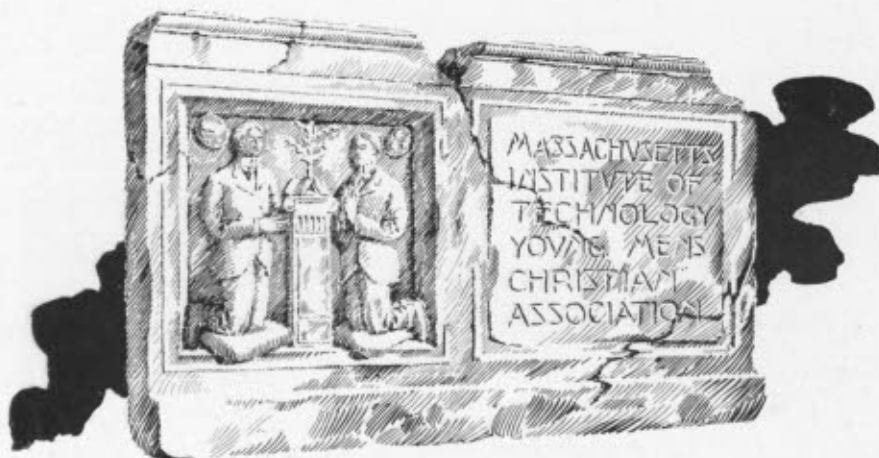
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If these girls are published without a *bon mot*,  
Gentle reader, pray don't take offense;  
We've tried hard to get them to say something bright,  
But really they haven't the sense.



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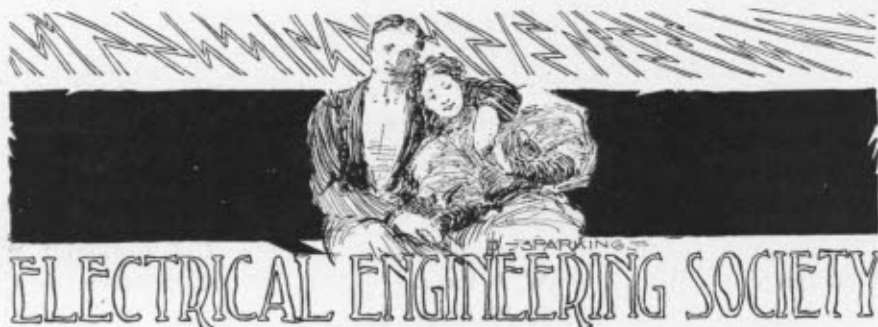
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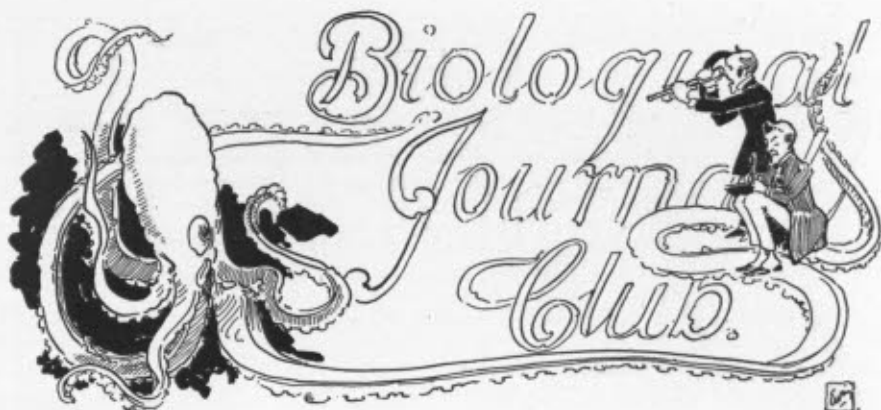
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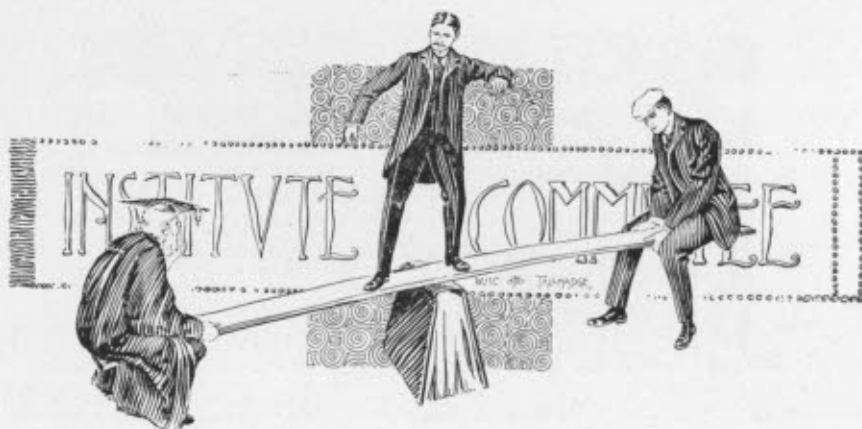
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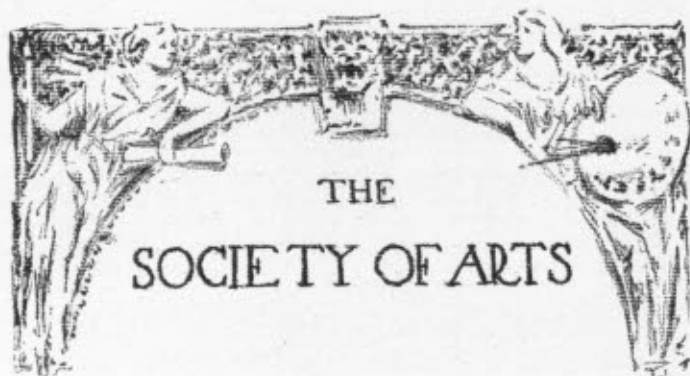
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<i>A Design for a Turntable</i> . . . . .	AZEL AMES, JR.
<i>A Comparison of the Heating Values of Coals as Obtained by the Mahler Bomb, the Sir William Thomson Calorimeter, and Certain Formulæ</i> . . . . .	GEORGE LINDER BIXBY.
<i>A Reception House for the Governor of Massachusetts</i> . . . . .	HERBERT W. CHAMBERLAIN.
<i>The Office of President of the Republic in France</i> . . . . .	LUTHER CONANT, JR.
<i>The Relative Coking Qualities of Various Coals</i> . . . . .	WALTER NATHAN CRAFTS.
<i>A Study of the Effect of Electrolytic Dissociation on the Magnetic Rotation of Solutions</i> . . . . .	WILLIAM JOHNSON DRISKO.
<i>The Synthesis of Diphenyl-Biphenyl and its Identification as Benzerythrene</i> . . . . .	ROLFE MARSH ELLIS.
<i>Design for a Sewerage System for Concord, Mass.</i> . . . . .	FRANCIS CUSHING GREEN.
<i>Tests of an Eight-Wheel Passenger Locomotive on the New York, New Haven &amp; Hartford Railroad</i> . . . . .	EDWARD HALEY HUXLEY.
<i>The Distribution of Light of Alternating Current Arc Lamps</i> . . . . .	LOREN GLEASON WAITE.
<i>Design for an Ocean Towboat</i> . . . . .	WILLIAM HENRY WINKLEY.

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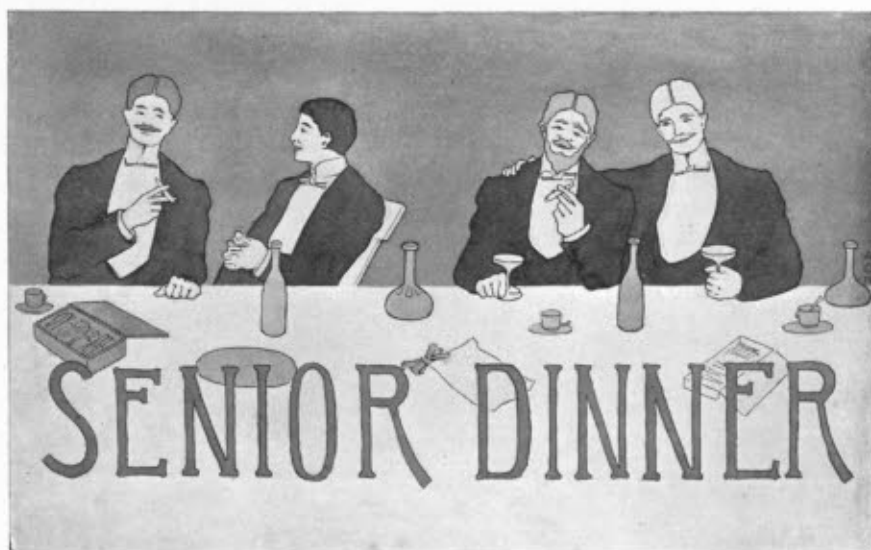


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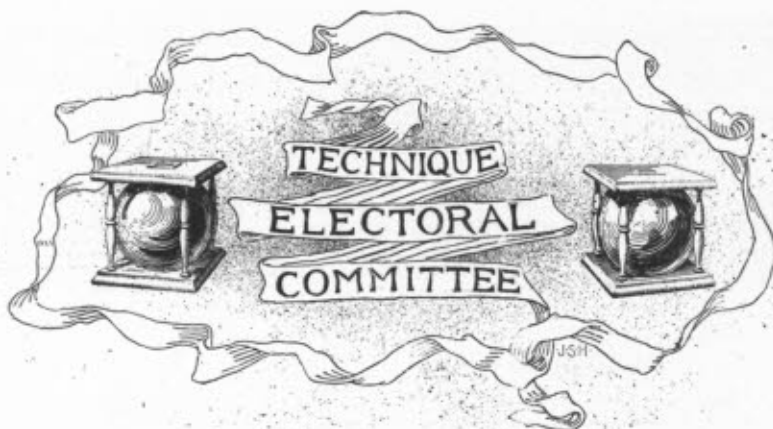


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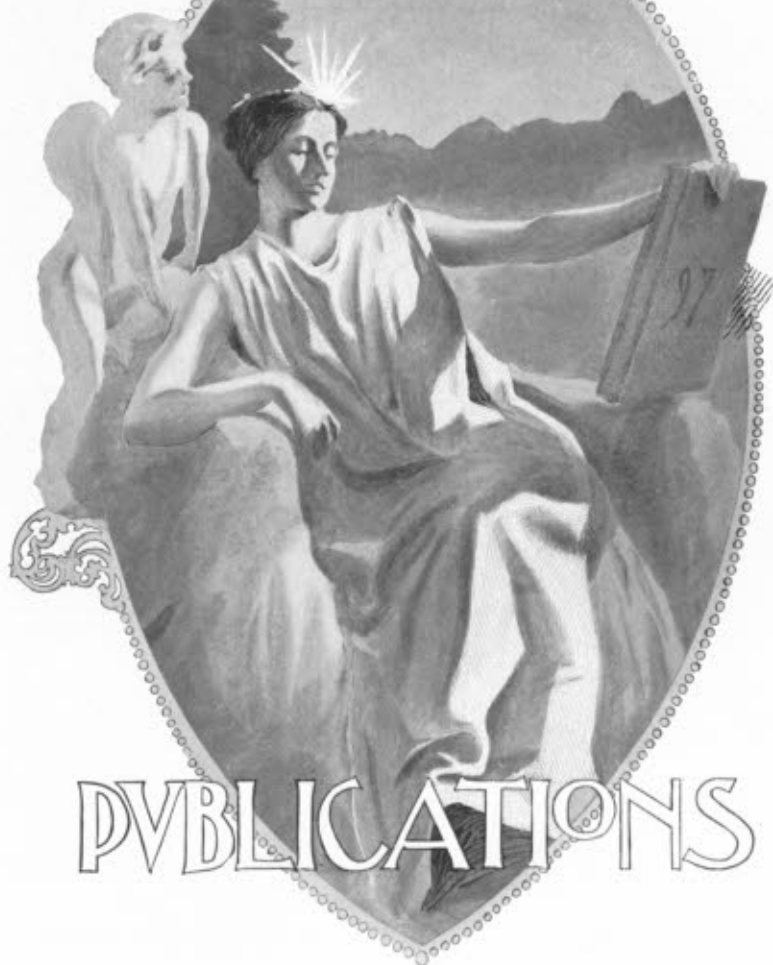
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# THE TECH

VOL. XV

BOSTON, DECEMBER 19, 1895.

NO. 12

## THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

CHARLES GILMAN HYDE, '96, Editor in Chief.

under the influence of Christmastide, THE TECH extends its warmest and most sincere greetings.

On this return of that most hallowed time



and the conscientious work of a constantly increasing body of men, have accomplished

been made in the list of Officers of Instruction, the absence of Dr.

every day and to which through student time, past which

ing the value of this welcome of our college and appreciating the tremendous advantages

of his manner, but by his thorough, broad-

of his manner, but by his thorough, broad-minded scholarship, was recognized and ap-

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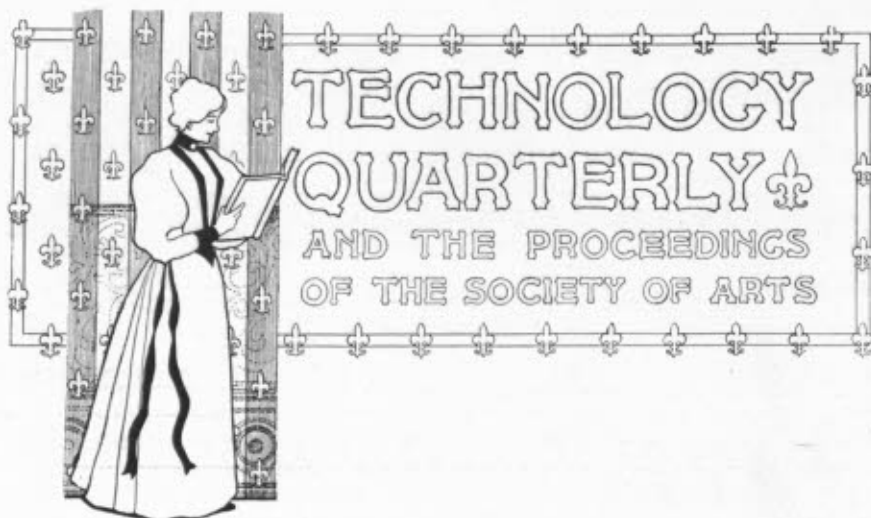
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*The Technology Quarterly* first appeared in 1887 as a scientific-engineering magazine, edited by members of the Senior and Junior classes, and as such was published for two years. At the end of that time, it was thought that a journal representative of the professional work of the Institute was deserving of more attention and more permanent management, and in 1889 the publication passed into the hands of a Board composed of members of the Faculty, Mr. James P. Munroe, then Secretary of the Institute, acting as its Editor.

In 1892 the *Quarterly* was made the official organ of the Society of Arts, and has since become a scientific journal of high order, covering all branches of Institute work.

Two interesting features have been added to the *Quarterly* during the current year. One is the series of abstracts published under the title, "Review of American Chemical Research," edited by Dr. A. A. Noyes; the other, the series of "Results of Tests made in the Engineering Laboratories,"—a record of the experiments made on the strength of materials.



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## OUR FOOTBALL SIGNALS.

---

The other morning at the Cage a note was handed me ;  
I took it, for I didn't know it was from Harry T.  
It said, " Explain your absence from French A, II., 1, b,  
5, [4-11-44], 3, (6), o, 8, 9, 3."

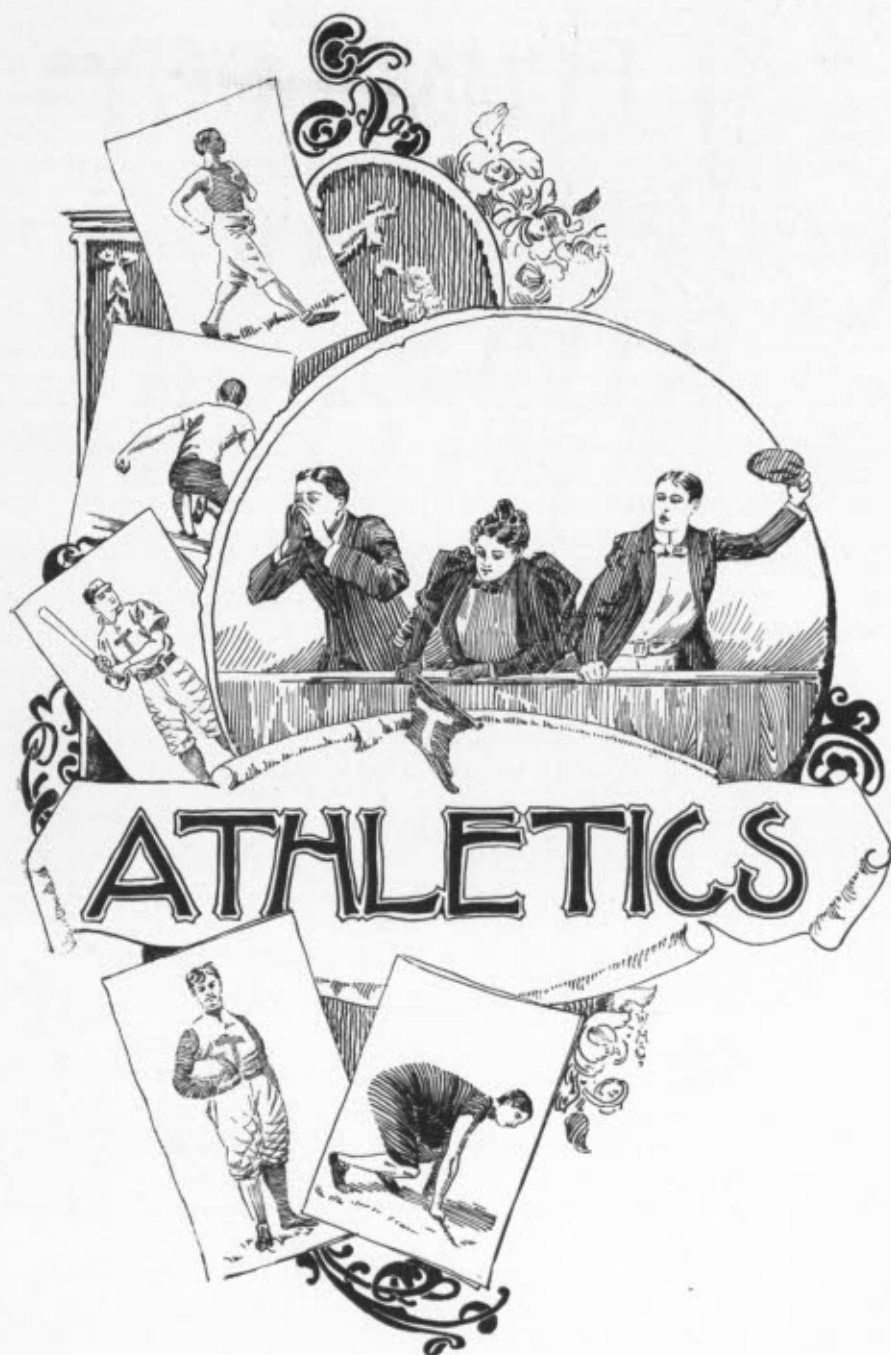
To me these cabalistic signs were just the same as Greek.  
I'd never seen their like before ; they truly were unique.  
Though they doubtless had a meaning, it was not for me to seek,  
For I wasn't used to such red tape—I'd been here but a week.

Though I tried hard to translate them, my labors were in vain,  
Till at last a brilliant idea flashed through my weary brain.  
Quick I wrote : " Dear Dr. Tyler, I must ask you to explain.  
I don't understand your signals ; won't you kindly try again ?

" This 'French A, II., 1, b,' I cannot comprehend ;  
Does it signal for a fake kick, or a run around the end ?  
Or perhaps it means a half back against the line to send ?  
But then, again, a flying wedge may be what you intend ?"

### ENVOY.

Good-by for good, Technology ; my face no more you'll see.  
I'm going out to Harvard ; she'll give me an A.B.  
For Tyler has just written a second note to me,  
To tell me that I've been ruled off, for I sassed the referee.





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# NINTH ANNUAL MEETING OF THE NEW ENGLAND INTERCOLLEGIATE ATHLETIC ASSOCIATION\*\*\*\*\*

Worcester, May 18, 1895.

## TRACK EVENTS.

<i>100-Yard Dash</i> . . . . .	H. S. PATTERSON, Williams, first . . . . .	*10 1-5 sec.
	A. W. GROSVENOR, Amherst, second.	
	E. DE K. LEFFINGWELL, Trinity, third.	
<i>220-Yard Dash</i> . . . . .	H. S. PATTERSON, Williams, first . . . . .	23 sec.
	A. W. GROSVENOR, Amherst, second.	
	P. H. DAYTER, Williams, third.	
<i>440-Yard Dash</i> . . . . .	M. C. ALLEN, Worcester, first . . . . .	54 2-5 sec.
	W. A. SPARKS, Trinity, second.	
	H. H. HAM, Dartmouth, third.	
<i>Half-Mile Run</i> . . . . .	C. E. BAKER, Dartmouth, first . . . . .	2 min. 4 sec.
	H. C. HULL, Brown, second.	
	G. K. BUCK, Williams, third.	
<i>One-Mile Run</i> . . . . .	H. CUMMINGS, Technology, first . . . . .	4 min. 49 1-5 sec.
	J. N. PRINGLE, Dartmouth, second.	
	F. A. TOWER, Wesleyan, third.	
<i>Two-Mile Run</i> . . . . .	L. F. SOULE, Bowdoin, first . . . . .	10 min. 29 3-5 sec.
	H. A. SUTTON, Wesleyan, second.	
	J. N. PRINGLE, Dartmouth, third.	
<i>One-Mile Walk</i> . . . . .	H. F. HOUGHTON, Amherst, first . . . . .	7 min. 17 3-5 sec.
	W. B. BLISS, Williams, second.	
	E. E. TYZZER, Brown, third.	
<i>120-Yard Hurdle</i> . . . . .	S. CHASE, Dartmouth, first . . . . .	*15 3-5 sec.
	B. HURD, JR., Technology, second.	
	E. A. SUMNER, JR., Technology, third.	
<i>220-Yard Hurdle</i> . . . . .	S. CHASE, Dartmouth, first . . . . .	26 1-5 sec.
	J. H. HORN, Bowdoin, second.	
	B. HURD, JR., Technology, third.	
<i>Two-Mile Bicycle</i> . . . . .	G. L. GARY, Dartmouth, first . . . . .	6 min. 22 4-5 sec.
	W. C. MARMON, Technology, second.	
	J. T. BURNS, Technology, third.	

## FIELD EVENTS.

<i>Running Broad Jump</i> . . . . .	S. CHASE, Dartmouth, first . . . . .	*22 ft. 3 in.
	R. D. FARQUHAR, Technology, second.	
	J. R. ALLEN, Williams, third.	
<i>Running High Jump</i> . . . . .	S. A. MACOMBER, Brown, first . . . . .	5 ft. 8 in.
	M. H. TYLER, Amherst, second.	
	C. K. BORDEN, Bowdoin, third.	
<i>Putting Shot (16 lbs.)</i> . . . . .	F. E. SMITH, Brown, first . . . . .	38 ft. 2 1-2 in.
	F. E. MASON, Dartmouth, second.	
	M. H. TYLER, Amherst, third.	
<i>Throwing Hammer (16 lbs.)</i> . . . . .	F. E. SMITH, Brown, first . . . . .	*113 ft. 1-2 in.
	H. COOMBS, Brown, second.	
	G. L. KIMBALL, Bowdoin, third.	
<i>Pole Vault</i> . . . . .	E. L. MORGAN, Amherst, first . . . . .	10 ft.
	W. A. WYATT, Wesleyan, second, by lot . . . . .	10 ft.
	M. D. DUNNING, Amherst, } third (tie).	
	W. W. FIFER, Williams, }	

\* New Record.

(Dunning won toss.)

## SUMMARY OF POINTS.

First, second, and third places count five, three, and one, respectively.

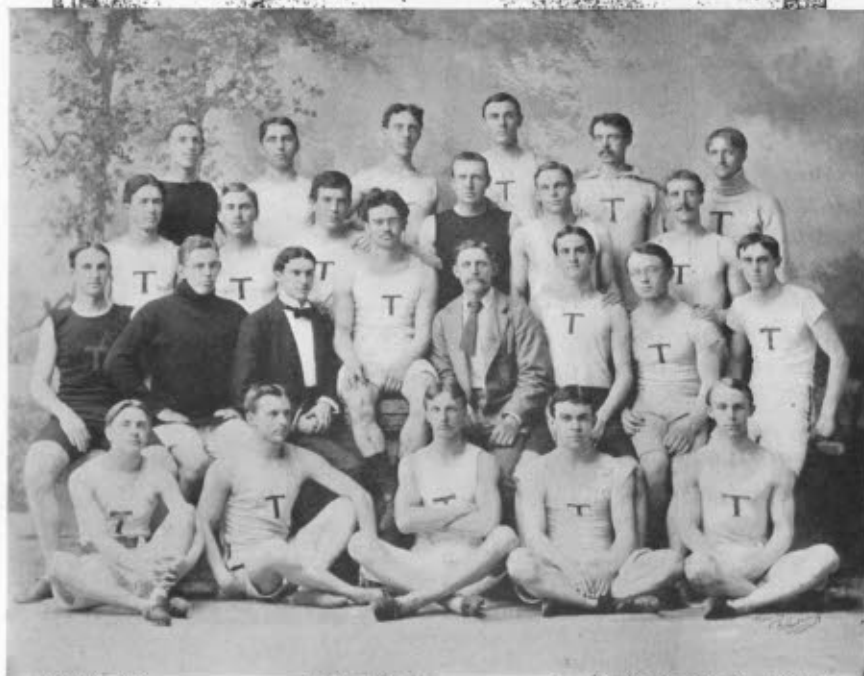
	Amherst.	Bowdoin.	Brown.	Dartmouth.	Technology.	Trinity.	Vermont.	Wesleyan.	Williams.	Worcester.
<i>100-Yard Dash</i> . . . . .	3	0	0	0	0	1	0	0	5	0
<i>220-Yard Dash</i> . . . . .	3	0	0	0	0	0	0	0	6	0
<i>440-Yard Dash</i> . . . . .	0	0	0	1	0	3	0	0	0	5
<i>Half-Mile Run</i> . . . . .	0	0	3	5	0	0	0	0	1	0
<i>One-Mile Run</i> . . . . .	0	0	0	3	5	0	0	1	0	0
<i>Two-Mile Run</i> . . . . .	0	5	0	1	0	0	0	3	0	0
<i>One-Mile Walk</i> . . . . .	5	0	1	0	0	0	0	0	3	0
<i>120-Yard Hurdle</i> . . . . .	0	0	0	5	4	0	0	0	0	0
<i>220-Yard Hurdle</i> . . . . .	0	3	0	5	1	0	0	0	0	0
<i>Two-Mile Bicycle</i> . . . . .	0	0	0	5	4	0	0	0	0	0
<i>Running Broad Jump</i> . . . . .	0	0	0	5	3	0	0	0	1	0
<i>Running High Jump</i> . . . . .	3	1	5	0	0	0	0	0	0	0
<i>Putting Shot (16 lbs.)</i> . . . . .	1	0	5	3	0	0	0	0	0	0
<i>Throwing Hammer (16 lbs.)</i> . . . . .	0	1	8	0	0	0	0	0	0	0
<i>Pole Vault</i> . . . . .	4½	0	0	0	0	0	0	4	½	0
<i>Totals</i> . . . . .	19½	10	22	33	17	4	0	8	16½	5

### Winners of the Cup.

1887 . . . . .	Dartmouth.	1891 . . . . .	Amherst.
1888 . . . . .	Amherst.	1892 . . . . .	Amherst.
1889 . . . . .	Dartmouth.	1893 . . . . .	Dartmouth.
1890 . . . . .	Amherst.	1894 . . . . .	Technology.
1895 . . . . .	Dartmouth.		



# TECHNOLOGY TRACK TEAM



Stebbins • Sheaf • Hurd • Carr • Powers • Shaw  
 Sumner • Wise • Le Moigne • Loetz • Hall • Rockwell •  
 Hayden • Lane • Lawson • Thomas • Graham • Cummings • Armon • Tillinghast  
 Sargent • Boeske • Molte • Pugh • Bakenhas



#### OFFICERS.

*Captain.*

JAMES WINTHROP THOMAS, '95.

*Manager.*

GEORGE PARK LAWSON, '96.

#### TRACK TEAM.

EDGAR AUGUSTUS BOESEKE, '95.

ROBERT WENTWORTH CARR, '95.

ROBERT DAVID FARQUHAR, '95.

WALTER ATWOOD HALL, '95.

GEORGE WELLINGTON HAYDEN, '95.

WALTER CARPENTER MARMON, '95.

WALTER CHAMPION POWERS, '95.

HARRY JONES SHEAFE, '95.

JAMES WINTHROP THOMAS, '95.

CHARLES FOSTER TILLINGHAST, '95.

REUBEN EDWIN BAKENHUS, '96.

HENRY CUMMINGS, JR., '96.

BENJAMIN HURD, JR., '96.

ALF C. LOOTZ, '96.

JOHN ARNOLD ROCKWELL, JR., '96.

ALFRED VICTOR SHAW, '96.

SAMUEL FRANCIS WISE, '96.

GEORGE MASON LANE, '97.

ACHILLES HENRY PUGH, '97.

CHARLES BOWLES STEBBINS, '97.

EDWARD ALLEYNE SUMNER, JR., '97.

CHARLES LE MOYNE, '98.

JULIUS NOLTE, '98.

RALPH ROLLINS RUMERY, '98.

ALLSTON SARGENT, '98.

JOHN TOD BURNS, L. S. of D.

# TECHNOLOGY FOOT BALL TEAM



Heckle • Underwood • Whiting • Robinson • Rockwell • Springer • McCormick • Hopkins •  
 LeBaron • Taylor • Monahan Capt • Mansfield Mgr • Viner • Worcester •  
 Warren • Brown • Mansfield • Emery •



## OFFICERS.

### *President.*

HARRY GEORGE FISK, '96.

### *Vice President.*

RALPH SPELMAN WHITING, '97.

### *Secretary and Treasurer.*

HENRY WALTER ALLEN, '97.

### *Manager.*

EDWARD STACEY MANSFIELD, '96.

### *Captain.*

JOHN HENRY MANAHAN, '96.

## Executive Committee.

BENJAMIN HURD, JR., '96.

LEWIS ANDREWS HAYDEN, '97.

GEORGE FREDERICK ULMER, '98.

## TEAM.

HARRY PATRICK BROWNE, '96.

JOHN HENRY MANAHAN, '96.

JOHN ARNOLD ROCKWELL, JR., '96.

ALBA HOUGHTON WARREN, '96.

LEWIS ANDREWS HAYDEN, '97.

FREDERICK NELSON LE BARON, '97.

FRANK ERASTUS MANSFIELD, '97.

EDMUND BURKE MCCORMICK, '97.

FRANK EDWARD UNDERWOOD, '97.

RALPH SPELMAN WHITING, '97.

HENRY ELWYNNE WORCESTER, '97.

EARLE CALDWELL EMERY, '98.

HEBER AUGUSTUS HOPKINS, '98.

AMOS GEORGE ROBINSON, '98.

ERNEST ROGER SPRINGER, '98.

GEORGE FREDERICK ULMER, '98.

RICHARD BENEDICT VAN HORNE, '98.

GEORGE ROGERS HECKLE, '99.

BRAINERD TAYLOR, '99.



# SCHEDULE OF GAMES.

October 5,	Technology vs. Exeter, at Exeter . . . . .	0	0
October 12,	Technology vs. Andover, at Andover . . . . .	14	0
October 16,	Technology vs. Boston Athletic Association, at Boston	0	24
October 19,	Technology vs. Dartmouth, at Manchester . . . . .	0	26
October 23,	Technology vs. Brown, at Boston . . . . .	0	14
October 26,	Technology vs. Amherst, at Amherst . . . . .	4	20
October 29,	Technology vs. Chicago Athletic Association, at Boston	0	46
November 2,	Technology vs. Tufts, at Boston . . . . .	6	0
November 13,	Technology vs. Brown, at Providence . . . . .	0	28

## Football Summary.

Games Played . . . . .	9
Games Won . . . . .	2
Games Lost . . . . .	6
Tie Game . . . . .	1



## TECHNOLOGY RECORDS.

### STANDARD EVENTS.

EVENT.	HOLDER.	RECORD.
<i>100-Yard Dash</i>	R. W. CARR, '95	10 2-5 sec.
<i>220-Yard Dash</i>	R. W. CARR, '95	23 sec.
<i>440-Yard Dash</i>	J. A. ROCKWELL, JR., '96	51 1-5 sec.
<i>Half-Mile Run</i>	T. SPENCER, '91	2 min. 6 2-5 sec.
<i>One-Mile Run</i>	G. CLAPP, '95	4 min. 37 4-5 sec.
<i>Two-Mile Run</i>	S. F. WISE, '97	11 min. 25 4-5 sec.
<i>One-Mile Walk</i>	A. H. ALLEY, '91	8 min. 5 2-5 sec.
<i>120-Yard Hurdle</i>	B. HURD, JR., '96	16 3-5 sec.
<i>220-Yard Hurdle</i>	B. HURD, JR., '96	26 1-5 sec.
<i>Two-Mile Bicycle</i>	W. C. MARMON, '95	5 min. 26 4-5 sec.
<i>Running High Jump</i>	C. D. HEYWOOD, '93	6 ft. 1-2 in.
<i>Running Broad Jump</i>	R. D. FARQUHAR, '95	20 ft. 10 in.
<i>Putting Shot (16 lbs.)</i>	J. C. E. DE BULLET, '92	36 ft. 2 1-4 in.
<i>Throwing Hammer (16 lbs.)</i>	C. H. PARKER, '95	96 ft. 4 in.
<i>Pole Vault</i>	J. CRANE, JR., '92	10 ft. 7 in.

### SPECIAL EVENTS.

<i>20-Yard Dash</i>	F. LORD, '94	3 sec.
<i>35-Yard Dash</i>	<div style="display: inline-block; vertical-align: middle;"> <div style="display: inline-block; vertical-align: middle;"> E. A. BOESEKE, '95  A. SARGENT, '98  A. W. GROSVENOR, '98  W. C. WATROUS, '98 </div> </div>	4 2-5 sec.
<i>35-Yard Low Hurdle</i>	<div style="display: inline-block; vertical-align: middle;"> <div style="display: inline-block; vertical-align: middle;"> J. W. THOMAS, '95  B. HURD, JR., '96 </div> </div>	4 4-5 sec.
<i>Potato Race</i>	J. A. ROCKWELL, JR., '96	50 1-5 sec.
<i>Class Team Race</i>	CLASS OF '94	3 min. 18 sec.
<i>Cross-Country Run (Gymnasium to Coolidge's Corner and return)</i>	H. CUMMINGS, '96	29 min. 30 sec.
<i>Standing High Jump</i>	F. R. YOUNG, '86	4 ft. 10 in.
<i>Standing Broad Jump</i>	L. BURNETT, '96	10 ft. 1 1-2 in.
<i>Three Standing Broad Jumps</i>	E. A. BOESEKE, '95	32 ft. 8 1-8 in.
<i>Running High Kick</i>	C. D. HEYWOOD, '93	9 ft. 3 1-2 in.
<i>Fence Vault</i>	A. H. GREEN, '96	7 ft. 2 1-4 in.
<i>Rope Climb (20 ft. rope)</i>	H. O. CARRIER, '95	5 1-2 sec.

## NEW ENGLAND INTERCOLLEGIATE ATHLETIC ASSOCIATION RECORDS.

EVENT.	RECORD.	HOLDER.	COLLEGE AND DATE.
<i>100-Yard Dash</i>	10 1-5 sec.	H. S. PATTERSON . . .	Williams, 1895.
<i>220-Yard Dash</i>	22 3-5 sec.	H. C. IDE . . .	Dartmouth, 1892.
<i>440-Yard Dash</i>	50 1-5 sec.	G. B. SHATTUCK . . .	Amherst, 1891.
<i>Half-Mile Run</i>	2 min. 1 2-5 sec.	H. L. DADMUN . . .	Worcester, 1891.
<i>One-Mile Run</i>	4 min. 32 1-5 sec.	G. O. JARVIS . . .	Wesleyan, 1893.
<i>Two-Mile Run</i>	10 min. 8 2-5 sec.	G. O. JARVIS . . .	Wesleyan, 1893.
<i>120-Yard Hurdle</i>	15 3-5 sec.	S. CHASE . . .	Dartmouth, 1895.
<i>220-Yard Hurdle</i>	26 sec.	H. C. IDE . . .	Dartmouth, 1892.
<i>One-Mile Walk</i>	7 min. 15 3-5 sec.	H. F. HOUGHTON . . .	Amherst, 1894.
<i>Two-Mile Bicycle</i>	5 min. 27 4-5 sec.	W. C. MARMON . . .	Technology, 1894.
<i>Running Broad Jump</i>	22 ft. 3 in.	S. CHASE . . .	Dartmouth, 1895.
<i>Running High Jump</i>	5 ft. 9 in.	N. T. ABBOTT . . .	Dartmouth, 1892.
<i>Putting Shot (16 lbs.)</i>	38 ft. 3 1-2 in.	N. D. ALEXANDER . . .	Amherst, 1892.
<i>Throwing Hammer (16 lbs.)</i>	113 ft. 1-2 in.	F. E. SMITH . . .	Brown, 1895.
<i>Pole Vault</i>	10 ft. 9 in.	H. L. TOWNE . . .	Williams, 1892.

## WORLD'S AMATEUR RECORDS.

EVENT.	RECORD.	HOLDER.	PLACE AND DATE.
<i>100-Yard Dash</i>	9 4-5 sec.	J. OWEN, Jr. . . .	Washington, 1890.
<i>220-Yard Dash</i>	21 3-5 sec.	B. J. WEFERS . . .	New York City, 1895.
<i>440-Yard Dash</i>	47 3-4 sec.	W. BAKER . . . . .	Boston, 1886.
<i>Half-Mile Run</i>	1 min. 53 2-3 sec.	C. H. KILPATRICK, . . .	New York City, 1895.
<i>One-Mile Run</i>	4 min. 15 3-5 sec.	T. P. CONNEFF . . .	New York City, 1895.
<i>Two-Mile Run</i>	9 min. 17 2-5 sec.	W. G. GEORGE . . .	England, 1884.
<i>120-Yard Hurdle</i>	15 2-5 sec.	S. CHASE . . .	Travers Island, 1895.
<i>220-Yard Hurdle</i>	24 3-5 sec.	J. L. BREMER, JR. . .	Berkeley Oval, 1894.
<i>One-Mile Walk</i>	6 min. 29 3-5 sec.	F. P. MURRAY . . .	New York City, 1883.
<i>Running Broad Jump</i>	23 ft 6 1-2 in.	C. S. REBER . . . . .	Detroit, 1891.
<i>Running High Jump</i>	6 ft. 5 5-8 in.	M. F. SWEENEY . . .	New York City, 1895.
<i>Putting Shot (16 lbs.)</i>	47 ft.	G. R. GRAY . . . . .	Chicago, 1893.
<i>Throwing Hammer (16 lbs.)</i>	145 ft. 3-4 in.	J. S. MITCHELL, . . .	Travers Island, 1892.
<i>Pole Vault</i>	11 ft. 5 3-8 in.	W. S. RODENBURGH, . .	Philadelphia, 1892.



## THE SIXTEENTH ANNUAL\* INDOOR SCRATCH MEETING.

March 9, 1895.

<i>35-Yard Dash</i> . . . . .	I. S. CLARK, N. A. A., first . . . . . 4 1-5 sec. A. L. JACKSON, H. A. A., second. M. G. GONTERMAN, H. A. A., third.
<i>35-Yard Dash (Tech. novice)</i>	W. C. WATROUS, '98, first . . . . . 4 2-5 sec. E. F. RUSS, '98, second. S. A. CAPRON, '97, third.
<i>40-Yard High Hurdle</i> . . . . .	A. COONLEY, M. I. T., first . . . . . 5 4-5 sec. R. A. FERGUSON, E. H. S. A. A., second. J. L. BREMER, Jr., H. A. A., third.
<i>Potato Race</i> . . . . .	J. J. CROWLEY, St. M. A. C., first . . . . . *32 1-5 sec. I. S. CLARK, N. A. A., second. E. H. CLARK, B. A. A., third.
<i>Running High Jump</i> . . . . .	C. J. PAINE, H. A. A., first . . . . . 5 ft. 11 in. P. C. STINGEL, B. A. A., second. W. E. PUTNAM, H. A. A., third.
<i>Three Standing Broad Jumps</i>	E. A. BORSEKE, M. I. T., first . . . . . †32 ft. 8 1-8 in. K. K. KUBLI, H. A. A., second. B. DOHERTY, S. B. A. C., third.
<i>Putting Shot (16 lbs.)</i> . . . . .	J. F. DRISCOLL, L. A. C., first . . . . . 36 ft. 4 1-2 in. C. J. PAINE, H. A. A., second. K. K. KUBLI, H. A. A., third.
<i>Pole Vault</i> . . . . .	W. W. HOYT, H. A. A., first . . . . . 10 ft. 3 in. N. P. HALLOWELL, H. A. A., second. A. B. EMMONS, 2nd, H. A. A., third.

\* World's record for that distance.

† Technology Record.

# ANNUAL OUTDOOR SPRING MEETING.

Holmes' Field, May 6, 1895.

## TRACK EVENTS.

<i>100-Yard Dash</i> . . . . .	R. W. CARR, '95, first . . . . .	*10 2-5 sec.
	A. H. PUGH, '97, second.	
	A. SARGENT, '98, third.	
<i>220-Yard Dash</i> . . . . .	R. W. CARR, '95, first . . . . .	23 3-5 sec.
	A. H. PUGH, '97, second.	
	J. C. NOYES, '98, third.	
<i>440-Yard Dash</i> . . . . .	J. A. ROCKWELL, JR., '96, first . . . . .	54 1-5 sec.
	J. W. THOMAS, '95, second.	
	G. M. LANE, '97, third.	
<i>Half-Mile Run</i> . . . . .	C. A. STEBBINS, '97, first . . . . .	2 min. 7 2-5 sec.
	J. A. ROCKWELL, JR., '96, second.	
	W. D. HUBBARD, '98, third.	
<i>One-Mile Run</i> . . . . .	H. CUMMINGS, '96, first . . . . .	4 min. 43 1-5 sec.
	C. F. TILLINGHAST, '95, second.	
	R. NORRIS, '96, third.	
<i>Two-Mile Run</i> . . . . .	S. F. WISE, '96, first . . . . .	*11 min. 25 4-5 sec.
	H. CUMMINGS, '96, second.	
	R. NORRIS, '96, third.	
<i>One-Mile Walk</i> . . . . .	H. J. SHEAFE, '95, first . . . . .	8 min. 51 4-5 sec.
	D. MAYER, '98, second.	
	W. A. KENT, '96, third.	
<i>120-Yard Hurdle</i> . . . . .	B. HURD, JR., '96, first . . . . .	*16 3-5 sec.
	E. A. SUMNER, JR., '97, second.	
	A. COONLEY, '96, third.	
<i>220-Yard Hurdle</i> . . . . .	B. HURD, JR., '96, first . . . . .	27 1-5 sec.
	J. W. THOMAS, '95, second.	
	E. A. BOESEKE, '95, third.	
<i>Two-Mile Bicycle</i> . . . . .	W. C. MARMON, '95, first . . . . .	5 min. 33 sec.
	J. T. BURNS, L. S. OF D., second.	
	F. L. HAYDEN, '96, third.	

## FIELD EVENTS.

<i>Running High Jump</i> . . . . .	W. A. HALL, '95, first . . . . .	5 ft. 4 3-4 in.
	R. D. FARQUHAR, '95, second.	
	R. HARRIS, '98, third.	
<i>Running Broad Jump</i> . . . . .	R. D. FARQUHAR, '95, first . . . . .	*20 ft. 10 in.
	R. W. CARR, '95, second.	
	W. C. WATROUS, '98, third.	
<i>Putting Shot (16 lbs.)</i> . . . . .	C. LE MOYNE, '98, first . . . . .	33 ft. 1 in.
	H. W. JONES, '98, second.	
	A. C. LOOTZ, '96, third.	
<i>Throwing Hammer (16 lbs.)</i> . . . . .	C. LE MOYNE, '98, first . . . . .	87 ft. 5 1-4 in.
	A. C. LOOTZ, '96, second.	
	H. B. SARGEANT, '98, third.	
<i>Pole Vault</i> . . . . .	J. NOLTE, '98, first . . . . .	9 ft. 7 in.
	A. V. SHAW, '96, second.	
	W. L. BUTCHER, '98, third.	

'95 won 50 points.    '96 won 46 points.    '97 won 15 points.    '98 won 20 points.

\* New Record.

# SUMMARY OF POINTS FOR THE INDIVIDUAL EXCELLENCE CUP FOR THE YEAR 1894-1895.\*\*\*\*\*

CUP WON BY A. H. GREEN, '96, WITH 18 POINTS.

R. W. CARR, '95	16	J. T. BURNS, L. S. OF D.	3
B. HURD, JR., '96	15	H. W. JONES, '98	3
J. A. ROCKWELL, JR., '96	13	M. O. LEIGHTON, '96	3
E. A. BOESEKE, '95	12	D. MAYER, '98	3
H. CUMMINGS, '96	11	C. F. TILLINGHAST, '95	3
R. D. FARQUHAR, '95	11	W. L. BUTCHER, '98	2
S. F. WISE, '97	11	R. R. RUMERY, '98	2
C. LE MOYNE, '98	10	A. COONLEY, '96	1
A. H. PUGH, '97	9	F. E. FAXON, '95	1
A. SARGENT, '98	9	R. HARRIS, '98	1
C. B. STEBBINS, '97	8	F. L. HAYDEN, '96	1
W. A. HALL, '95	6	W. D. HUBBARD, '98	1
A. V. SHAW, '97	6	W. A. KENT, '96	1
J. W. THOMAS, '95	6	G. M. LANE, '97	1
A. C. LOOTZ, '96	5	R. NORRIS, '96	1
W. C. MARMON, '95	5	J. C. NOYES, '98	1
J. NOLTE, '98	5	E. F. RUSS, '98	1
H. J. SHEAFE, '95	5	H. B. SARGEANT, '98	1
E. A. SUMNER, JR., '97	4	W. C. WATROUS, '98	1

Championship won by the Class of '96.

\* Two additional points for record.  
† Second prize won by L. S. of D.

November 9, 1895.

<i>First</i>	.	.	.	H. CUMMINGS, '96,
<i>Second</i>	.	.	.	S. F. WISE, '96.
<i>Third</i>	.	.	.	H. D. OSGOOD, '97.

Time, 29 min. 30 sec. (A new record.)

# FIFTEENTH INDOOR WINTER MEETING.

December 21, 1895.

<i>35-Yard Dash</i>	A. W. GROSVENOR, '98, first . . . . . 4 2-5 sec. O. H. GRAY, '97, second. W. L. BUTCHER, '98, third.
<i>35-Yard Hurdle</i>	C. B. STEBBINS, '97, first . . . . . 5 1-5 sec. W. L. BUTCHER, '98, second. E. A. SUMNER, JR., '97, third.
<i>Potato Race</i>	C. B. STEBBINS, '97, first . . . . . 45 2-5 sec. O. H. GRAY, '97, second. W. D. HUBBARD, '98, third.
<i>Running High Jump</i>	A. H. GREEN, '96, first . . . . . 5 ft. 7 in. R. A. FERGUSON, '99, second. A. W. GROSVENOR, '98, third.
<i>Standing Broad Jump</i>	A. H. GREEN, '96, first . . . . . 9 ft. 6 3-4 in. A. W. GROSVENOR, '98, second. R. A. FERGUSON, '99, third.
<i>Putting Shot (16 lbs.)</i>	H. W. JONES, '98, first . . . . . 33 ft. 4 1-2 in. A. H. GREEN, '96, second. F. L. H. KIMBALL, '99, third.
<i>Fence Vault</i>	A. H. GREEN, '96, first . . . . . * 7 ft. 2 1-4 in. R. E. BAKENHUS, '96, second. But two competitors.
<i>Rope Climb</i>	H. L. BODWELL, '98, first . . . . . 5 2-5 sec. R. E. BAKENHUS, '96, second. A. W. GROSVENOR, '98, third.

## Summary of Points.

	Points.
Class of '96 . . . . .	26
Class of '97 . . . . .	17
Class of '98 . . . . .	25
Class of '99 . . . . .	5

\*New Record.



# TENNIS ASSOCIATION

## OFFICERS.

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ALLAN WINCHESTER JACKSON.

### *Vice President.*

HAROLD WELLINGTON JONES.

### *Secretary and Treasurer.*

CHARLES EDWARD AMORY WINSLOW.

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MAURICE FRANCIS DELANO.

WILLIAM MONTAGUE HALL.

JOHN DE LOSS UNDERWOOD.

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EZRA EAMES CLEAVES, '97.

WILLIAM KENDALL FAIRBANKS, '97.

ARTHUR DOUGLAS SPIESS, '97.

RALPH SUMNER VINAL, '97.

FRANCIS MINOT BLAKE, '98.

WILLIAM BREWSTER, '98.

BENJAMIN STEARNS HINCKLEY, '98.

WILLIAM ATTMORE ROBINSON, Jr., '98.

ERNEST FRANK RUSS, '98.

JAMES FRANCIS SICKMAN, '98.

GEORGE WINFIELD TREAT, '98.

CHARLES BURTON GILLSON, '99.

RUSSELL GILPIN, '99.

MAURICE FREDERIC RICHARDSON, '99.

MONTFORD HILL SMITH, '99.

GERALD BASIL STREET, '99.

FRANK ROBINSON SWIFT, '99.

## FALL TENNIS TOURNAMENT.

Jarvis Field, October, 1895.

### FINAL ROUND.

ALLAN WINCHESTER JACKSON, '97, beat WALTER PAGE, '97.

6-1; 6-2; 6-4.

# NINETY-SIX TRACK TEAM



McAlpine • Norris • Loetz • Shaw  
 Cummings • Hard • Rockwell • Mr. Graham • Jackson • Field  
 Wise • Bakerhaus



# CLASS CHAMPIONS.

1894-1895.



*Captain.*

JOHN ARNOLD ROCKWELL, JR.

REUBEN EDWIN BAKENHUS.

HENRY CUMMINGS, JR.

FREDERICK CROMWELL FIELD.

BENJAMIN HURD, JR.

HENRY DOCKER JACKSON.

ALF C. LOOTZ.

WILLIAM HORATIO McALPINE.

REGINALD NORRIS.

ALFRED VICTOR SHAW.

SAMUEL FRANCIS WISE.



# *'97 BASE BALL TEAM*



*LeBaron • Temple, Anor • Fox • Barkhouse •  
Hubbard • Lamb • McCarthy Capt • Mansfield • Miller •  
Healy • Putnam • Abercrombie •*



#### CLASS TEAMS.

##### '97 Team.

J. B. HUBBARD  
S. W. PUTNAM, 3rd  
A. C. LAMB  
F. N. LE BARON  
F. V. MCCARTHY  
B. F. HEALY  
W. H. FOX  
F. E. MANSFIELD  
A. C. MILLER

Catcher  
Pitcher  
First Base  
Second Base  
Third Base  
Short Stop  
Left Field  
Centre Field  
Right Field

##### '98 Team.

J. S. BARBER.  
H. B. SARGEANT.  
E. C. EMERY.  
H. C. UNDERWOOD.  
J. F. MUHLIG.  
E. W. NORTON.  
M. F. DELANO.  
J. NOLTE.  
T. E. TALLMADGE.

#### Score.

NINETY-SEVEN	16
NINETY-EIGHT	6

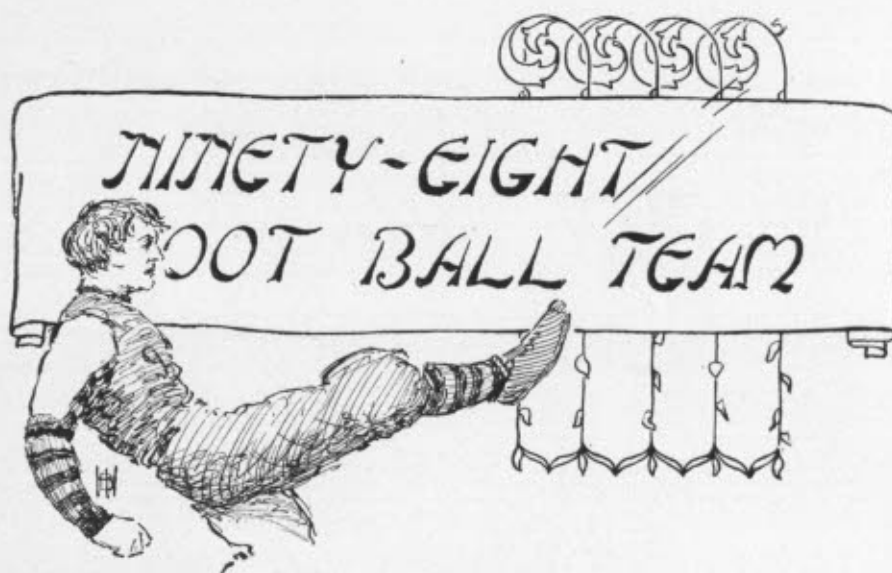
#### Schedule of Games.

April 17.	Ninety-Seven vs. Harvard	Ninety-Eight (seven innings)	4-17
April 23.	Ninety-Seven vs. Chauncy Hall	(seven innings)	13-12
April 24.	Ninety-Seven vs. Roxbury High School	(six innings)	4-16
April 27.	Ninety-Seven vs. Belmont	(six innings)	23-7
May 1.	Ninety-Seven vs. Groton	(nine innings)	10-10
May 9.	Ninety-Seven vs. Chelsea High School	(nine innings)	13-8
May 15.	Ninety-Seven vs. Ninety-Eight	(nine innings)	16-6

# '98 FOOT BALL TEAM



Nolte • Robinson •  
 Wilder • High • Barber • Angr • Tew • Delano • Harris •  
 Mc Connell • McIntyre • Wattous Capt • Smith • Rummerg •  
 Mayer • Learned • Clifford • House •



*Manager.*

J. S. BARBER.

*Rushers.*

P. CLIFFORD . . . . .	ENDS . . . . .	W. H. TEW.
J. T. ROBINSON, JR. . . . .	TACKLES . . . . .	G. SMITH.
J. S. McINTYRE . . . . .	GUARDS . . . . .	R. HARRIS.

*Center.*

W. G. McCONNELL.

*Quarter Back.*

J. NOLTE OR D. MAYER.

*Half Backs.*

W. C. WATROUS, *Captain.*

W. A. WILDER.

*Full Back.*

W. L. LEARNED

*Substitutes.*

C. S. HIGH.  
M. F. DELANO.

J. H. HOUSE, JR.  
G. W. TREAT.

*Schedule of Games.*

Ninety-Eight vs. Whitman Athletic Club . . . . .	12-0
Ninety-Eight vs. Somerville Y. M. C. A. . . . .	0-4
Ninety-Eight vs. Ninety-Nine . . . . .	0-16

*CANE RUSH.*

Ninety-Eight . . . . .	23 hands.
Ninety-Nine . . . . .	7 hands.

# 99 FOOT BALL TEAM



Copp •  
 de Mitriewicz • Ferguson • Morse • Ingr • Pierce • Mac Bride •  
 Stebbins • Mülhouser • Riotte • Capt • Vogt • Vike •  
 Goodnow • Blake • Childs • Keys • Sanchez •

# NINETY-NINE FOOT BALL TEAM



## Manager.

H. G. MORSE, JR.

## Rushers.

H. M. KEYS . . . . .	ENDS . . . . .	R. W. STEBBINS.
R. K. PIERCE . . . . .	TACKLES . . . . .	N. F. GOODNOW.
G. RIOTTE, <i>Captain</i> . . . . .	GUARDS . . . . .	G. I. COPP.

## Center.

E. MÜHLHÄUSER.

## Quarter Back.

K. M. BLAKE.

## Half Backs.

P. SANCHEZ Y BATISTA.

R. A. FERGUSON.

## Full Back.

J. D. MACBRIDE OR O. G. VOGT.

## Substitutes.

D. ULKE.

E. DE MITKIEWICZ.

J. E. CHILDS

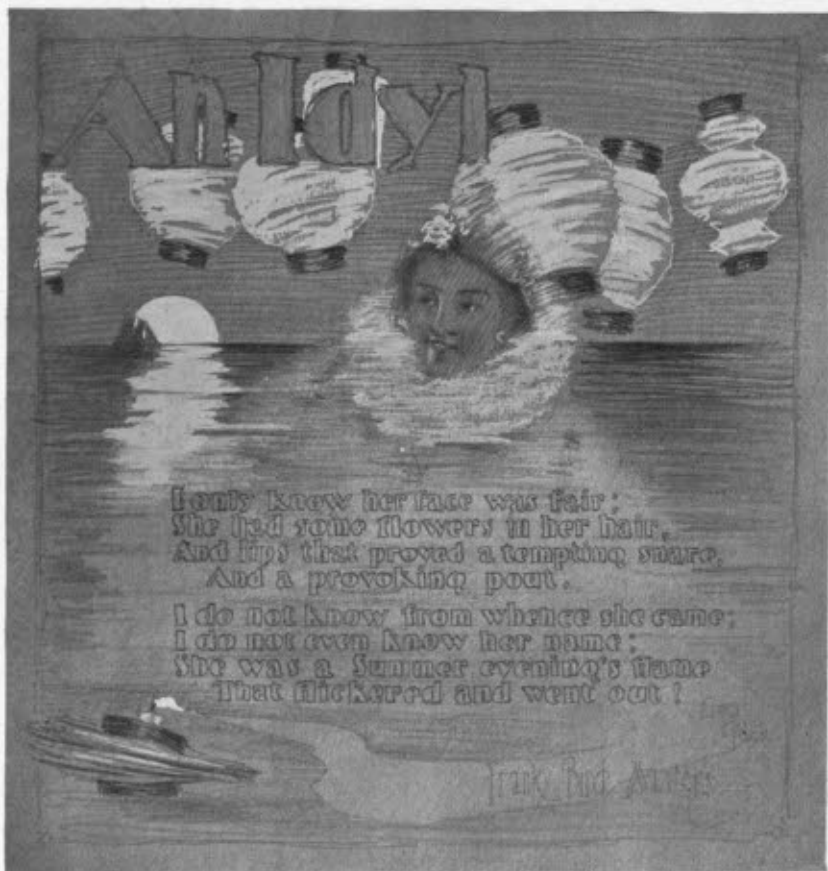
F. L. H. KIMBALL.

## Schedule of Games.

Ninety-Nine vs. St. Mark's . . . . .	0-24
Ninety-Nine vs. Allston Athletic Association . . . . .	0-6
Ninety-Nine vs. Tuft's Second Eleven . . . . .	16-0
Ninety-Nine vs. Wellesley Athletic Association . . . . .	6-0
Ninety-Nine vs. Ninety-Eight . . . . .	16-0

## CANE RUSH.

Ninety-Eight . . . . .	23 hands.
Ninety-Nine . . . . .	7 hands.



I only knew her face was fair;  
She had some flowers in her hair,  
And lips that proved a tempting snare,  
And a provoking pout.

I do not know from whence she came;  
I do not even know her name;  
She was a Summer evening's flame  
That flickered and went out!

Frank Red Allen



# SUMMER SCHOOLS







ON the twenty-ninth of May the Summer School of Architecture, consisting of some sixteen students, under the charge of Professor Homer and Mr. Mann of the Class of '94, left Boston for Salem. While this short trip was uneventful, soon after arriving at the Witch City we found that there was much to do and see. The members of the Essex Institute had

arranged for an excursion of investigation, and in the afternoon conducted us through their most interesting town. The party was led by Mr. Cousins, one of the members, who called attention to points of interest, and told of historical associations. Several houses were visited, so that by evening all had gathered a fairly complete knowledge of what might be seen and studied to advantage when the opportunity offered.

The regular work began on the second day after meeting for directions at Plummer Hall, which had been given up by the Institute for the use of the School. The students were divided into groups of two and three, and assigned to the various houses in which they were to work. This work consisted of making drawings of the sections of the mouldings and most

careful measurements of details, such as stairways, chimney pieces, doorways and cornices. After collecting sufficient data, the rough sketches were taken to Plummer Hall, where drawing tables had been arranged, and were drawn out carefully to scale.

But an account of the Summer School would not tell of its full significance if the more distinctly pleasure trips were omitted. Many of the towns in easy reach of Salem have their full share of interest for architect and historian, and Wednesday and Saturday afternoons were left free, so that those who wished had the opportunity to acquaint themselves with the old houses and traditions of such places as Danvers, Marblehead, and Beverly.

On two different days, when there was a good breeze, it was found to be far too warm for work; consequently a boat was chartered for the afternoon, and, with Professor Homer as skipper, the Summer School of Architecture tacked and junketed among the islands of Salem Harbor.

Shortly before leaving, the students were invited by a number of Salem gentlemen to a street-car ride and barge party, followed by supper at the Ferncroft Inn, a veritable museum of colonial lore; on the last evening of work a reception was given at Plummer Hall by a number of the ladies and gentlemen. Too much cannot be said of the attention and kindness of the members of the Essex Institute, who made much of the work possible and contributed largely to the pleasure of the visit. On Wednesday, the nineteenth of June, the Summer School came to a close, and, with many regrets, we bade farewell to Salem and our kind friends in that quaint old town.



Agnes Sumner House, New Bedford

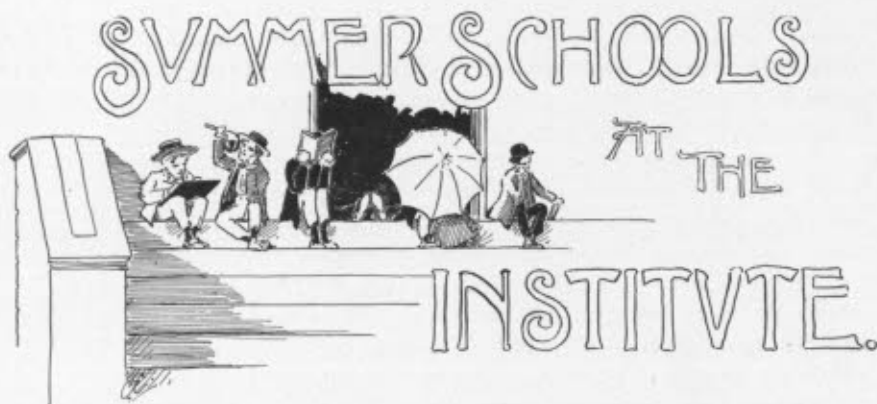


Shreve House, Salem

# SUMMER SCHOOLS

AT THE

# INSTITUTE.




SOME days are hotter than others: this was only one of those ordinary, hot days of early June which seem very commonplace, if you read of them in a newspaper while at a Greenland seaside resort; but the Summer School was not in Greenland, and there was no traditional icy mountain in the back yard. So the experiments upon the calorific power of the sun were very exhaustive—at least, to those who performed them. You cannot argue with hot weather—there is but one remedy—a shady place, and a certain green stuff with cracked ice tinkling in the glass; that is worth more than a mint of money, for it will search out immediately that elusive point in space known as “the right spot.”

It is not just, however, to look only upon the sunny side of the Summer School, for many were the artistic and interesting sights which were to be enjoyed if one did but have eyes for them. The parades of the only Buffalo Bill and the five Ringlings passed by the door with bands playing, while the grinds looked from the windows and smiled smiles that would chill a thermometer for several degrees, or, if executed simultaneously by two or more, would chill the Faculty for a degree apiece. The professors also liked the parades. It is impossible in this short sketch to analyze thoroughly the effect of the pageant upon the professorial mind, but certain it is that the professorial countenance takes on a very queer expression when caught in the act of enjoying completely the modern circus parade. A very superior smile spreads over it, and the owner murmurs something about the handsome horses, or the enormous elephants. In a fortnight the circus was gone, but in its place came the Endeavorers, who filled the cars,





got in the way, and impeded business generally. Looking up Huntington Avenue from the Laboratory, the oldest inhabitant of the Lab. would not have recognized the familiar byway. Through the rising heat waves one could see, along its quivering length, crowds upon crowds of people, so thick that the sidewalks seemed gigantic shade lines from the pen of a prehistoric Linus. Closer inspection, however, showed by numerous flags and badges that this phenomenon was of the modern "National Convention Period."

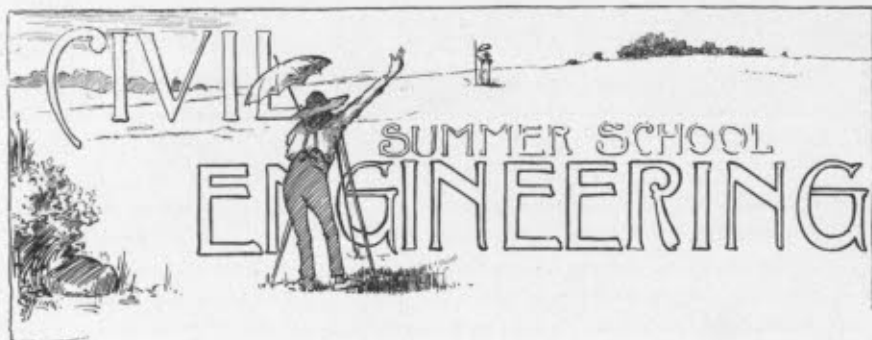
In August, however,—in the hot dog-days—came the Sir Knights from the length and breadth of the land, and settled upon Boston as the locusts did upon Egypt, and there was no green thing left except one or two Sub-Freshmen, who happened to be in town. There was to be a great parade, and grand stands, like Aladdin's palace, sprang up in a night along the line of march. Many knights cast covetous eyes upon the land between Rogers and Walker, and offered much money for the privilege of constructing seats upon it; but Sir Knight Albertus was inexorable, and refused all offers as cheerfully as if he had been asked to cash so many checks.

At last came the parade of the thirty thousand and one knights. A fine sight it was to see these men marching in all sorts of ways, in step and out; to see the grand commanders, or whatever they were, coming up Boylston Street, sword in hand, turning to their followers every few steps to encourage them by crying, "Beauseant"; reminding one very much of Dore's "Godfrey de Bouillon Entering Jerusalem."

When the column halted, the hospitable Bostonians would throw refreshments to the famished horde, and the ensuing scramble reminded one forcibly of coffee and rolls at the "Zoo." This throwing of sandwiches and fruit was good for the Knights, but it was destructive to music, for some one, with an eagle eye and a keen sense of humor, threw a banana into the tuba. The bandman blew hard, evidently thinking that peeling tones might have some effect; but in vain—his efforts were fruitless.

So the Knights passed by and away, and, shortly after, the Summer School closed. Sunshine and heat at the beginning, heat and sunshine at the end—and very warm between times. But though there were discomforts, as one looks back upon the summer's work he can say, "Yes, we did have a good time," for work for the day, and light opera or beer and music at the "Pops" for the evening, seem to make up an ideal student life. And now, when some one condemns the "Stute" for hard, grinding work, though perhaps we cannot honestly champion the Tech that we know, yet it can always be said in truth, "Well, possibly you're right, but you should have been at the Summer School."





Who thinks that the Civil Engineering Summer School is either all work or all play, will find, when he arrives in the land of the plane table and the pathless forest, that his reckoning is out. It is the judicious mixture of both that seduces so many of us from our happy homes, and causes us to withdraw from the public eye for a whole month in order to reap the physical and intellectual benefits which the course offers.

Great were the scientific achievements made at Keeseville last year. Everybody, perhaps, knows by this time how we measured mountain heights to a hair's breadth, how we sounded the chilly depths of Lake Champlain and drew up in corked bottles all sorts of wonderful animals, and how some of us stayed out all night with a transit shooting stars. Our exploits were such as to gain for us the utmost respect of not only ourselves, but also of the honest Keesevillains, who were careful not to get near enough to be taken in the plane-table picture, and who otherwise assisted us materially.

Amusements were either social or athletic in character. Those who indulged in the former, it is said, fully maintained the reputation established by '95 the year before. As a body, however, we did not suffer ourselves to be drawn much into the mad whirl of Keeseville society, although—O wretched thought!—we attended a strawberry festival. Here we met the *élite* of the city, and were entertained by a brass band, Chinese lanterns, remarks on the hay crop, and



various other neat and original devices; all of which sent us back over the road to the "Interlaken" with very good spirits (they vote *Yes* in Keeseville).

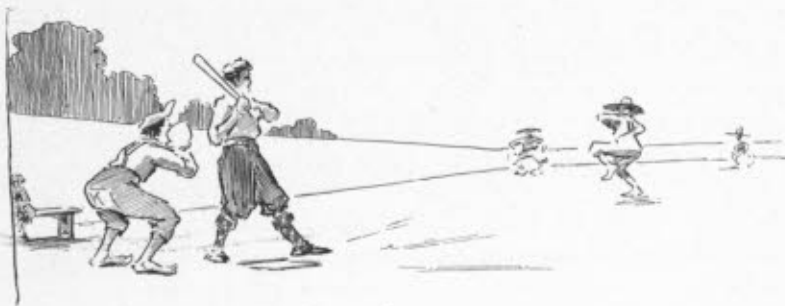


Our athletic members had a most satisfactory time throughout. On the very first day came a mountain-climbing handicap—the handicaps being given in the form of winter clothing, mercurial barometers, axes, etc. The thermometer registered ninety-four degrees in the shade. Result: dead heat. And then came baseball practice (after dark), bowling, and aquatic sports of all kinds. The grand finale was a baseball game with "de Keese-



villes"; but, owing to lack of space, we had best not dwell upon this subject.

In short, the Summer School partakes of the nature of life at a summer resort, in camp, and at professional work. There never was a Course I. man who regretted having attended, and there never will be. Next year, doubtless, the School will be taken down on the coast, where, let us hope, the sea fog will not hide the signals nor chill the ambition, but will give an extra stimulus to the good work.





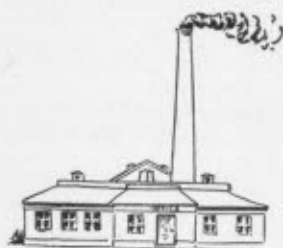


ON the twenty-seventh of June a party of Tech lads, under the leadership of Professor Hofman, left Boston for New York and all points on the Summer School of Mines pilgrimage. No time was lost in beginning work, for the next day found us in New Jersey inspecting the Oxford Copper Works. This, our first visit, was most instructive; it taught us the peculiarities of the different members of our party. No sooner had we reached the copper works than we discovered that the leader of our band had an insatiable thirst for dimensions. Everything measureable was to him a joy until he knew its exact size. Unfortunately no one had a rule, and for a time things looked dark; but we were from Tech, and not to be balked. One of our party, who knew the exact length of his arms, fingers, knuckles and finger nails, had brought with him a ball of string. We were saved! We measured everything, from the height of the buildings, to the diameter of the poker in the boiler house. In short, we are prepared to build and equip a similar plant, and will guarantee that Sherlock Holmes himself could not tell the original from the copy.

Our day's work closed with a visit to the Bergen Point Chemical Works, where we studied the manufacture of sulphuric acid, in connection with its effect upon the human throat. In Newark, where we spent the night, began a series of debates, between our leader and a series of hotel clerks, upon the cost of board. As the Professor won every debate, we enjoyed the best that the hotels afforded, and incidently furnished considerable entertainment. One of our number refused to retire until he had discovered the location of the nearest church. I mention this, not because it throws any light on the social status of our hotel, but rather to show that our Y. M. C. A. has not lived in vain.



After supper we gathered to write up our notes of the day's work and have them criticised by the Professor—this last part of the programme was never omitted.



THE ORIGINAL.

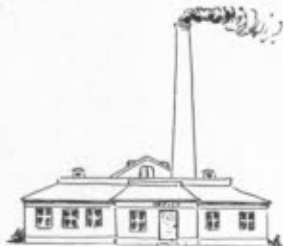
Then, feeling that something had been accomplished to earn a night's repose, we retired. Not, however, before the measuring member of our party had satisfied himself that his bed was three arms, two fingers, four thumb-nails and a quarter in length. The next two days were spent in visits to the Bolbach Smelting and Refining Co., where we studied the extractions, separation and refining of lead, gold and silver; the Passaic Zinc Co., and a half holiday outing in New York. Then we moved on to Lebanon, Penn., where, after the customary debate and determination of the location of the nearest church, we

were duly installed. While there we visited the Colbrook Furnace of the Lackawanna Iron and Steel Co., the Pennsylvania Bolt and Nut Co.'s works, and the North Lebanon Furnace.

We then folded our tents and stole away to Harrisburg, where we spent three days in examining the plant of the Pennsylvania Steel Co.; here we found some of the heaviest machinery we had yet seen. We next went to Everett where we were the guests of Mr. Joseph E. Thropp, who is part owner and manager of several of the plants we visited. Mr. Thropp, or his son, who is a graduate of the Institute, spent several days in accompanying us through the works, and to their kindness was due not a little the pleasure of our trip.

Our last pilgrimage was to Johnstown, where we visited the famous Cambria Iron Co. The experience we had already gained helped us to more readily comprehend and appreciate this great spectacle. Here we saw hundreds of tons of molten steel flowing like water; one could stand by the hour and watch the rail mill turning out rails weighing one hundred pounds to the yard. Indeed, we had to be careful lest we should get lost in the maze of buildings, train yards, and stock yards which comprise this enormous manufactory.

The three days we spent at Johnstown proved a fit ending to our Summer School. After we left there our party broke up, some of us going to Professor Crosby's School of Mineralogy, while others sought the seclusion of home to "plug for exams." We all voted that the Summer School had been a great success; we all felt sure that its success was due to the interest and kindness of Professor Hofman, and, through *TECHNIQUE*, we wish to thank him once more for the pleasures and benefits of the Summer School of Metallurgy.



OUR DUPLICATE.

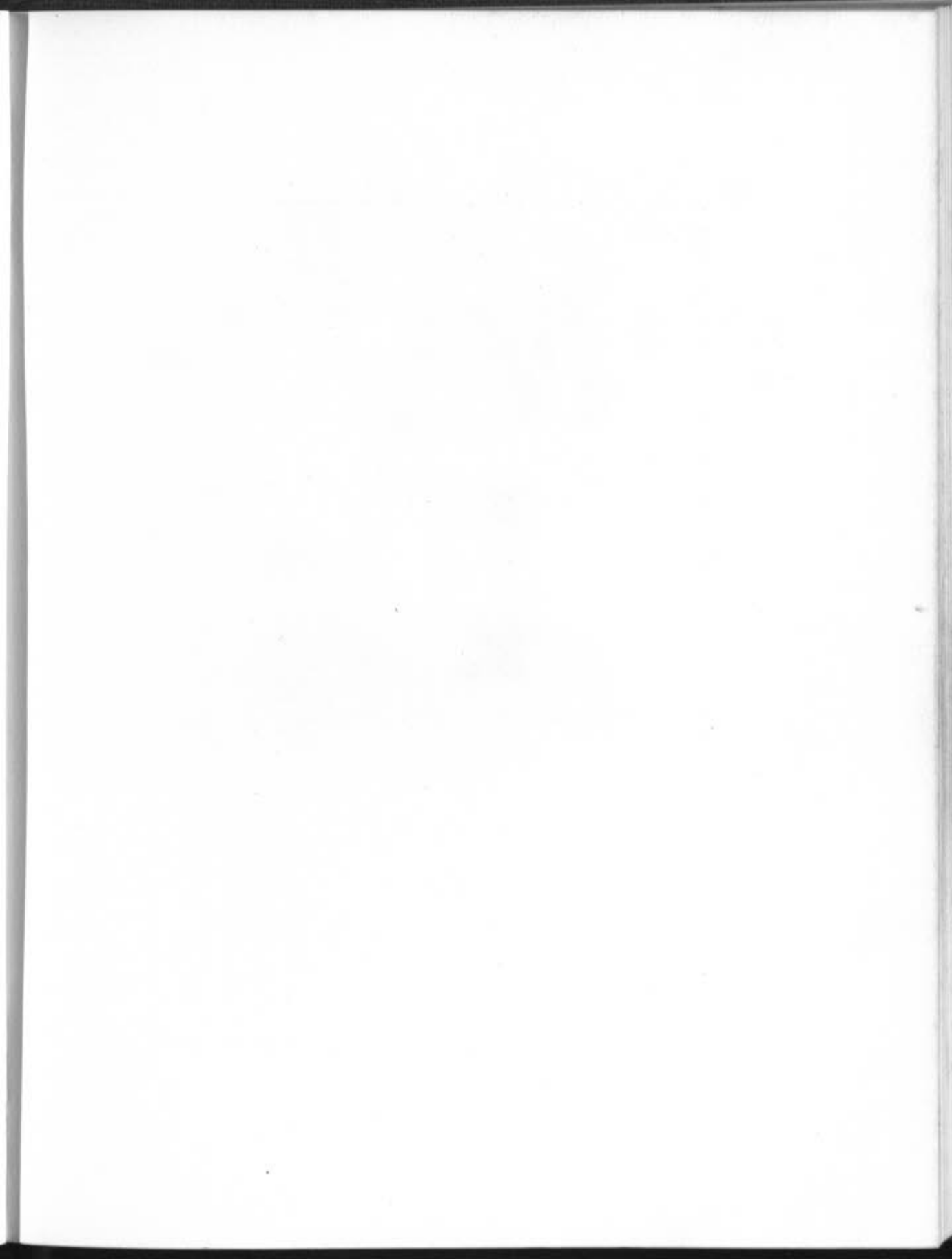


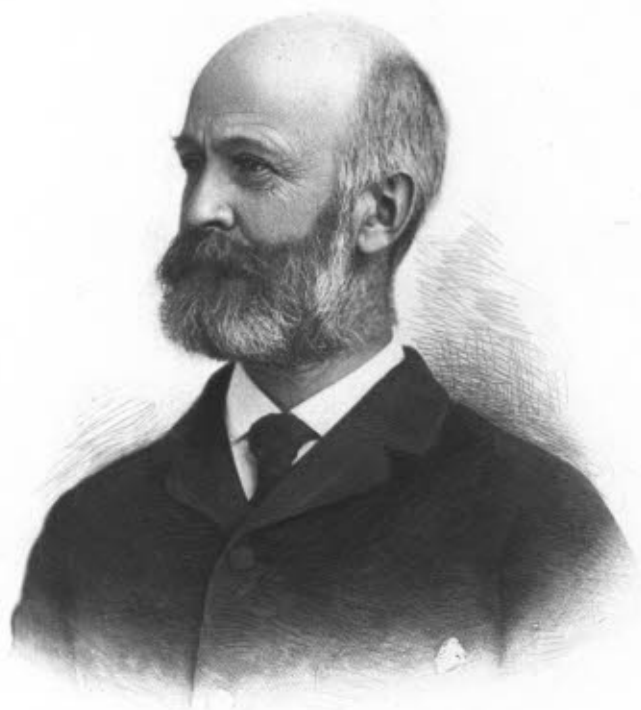
Miss Brown (a senior at Waver, where  
slang is never heard):—

"What in the world did he mean by saying  
that I took the cake last night.

I never could get on to these slang  
expressions."







*J. W. Chandler.*

## FRANCIS W. CHANDLER.

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FOREMOST among American Architectural Schools, and not the least of the Institute courses, is the Department of Architecture. So rapid has been its growth during the past ten years, that in 1892 it was found necessary to remove from the inadequate quarters in Walker to the new Architectural Building, where Course IV. reigns supreme, allowing no other course to trespass upon its domain. Since the new building has been occupied, more rapid than ever has been the growth of this department. Nor has this improvement been in one or two particular branches; it has been a constant development and broadening of the course as a whole.

If this great advance can be said to be due to the efforts of one man, then surely that man is Professor Francis W. Chandler, who, while the prime mover in all connected with the welfare of his own course, has always shown the greatest interest in Technology as a whole. Consequently the TECHNIQUE Board considers itself fortunate in being able to publish a short sketch of the life of Professor Chandler, whose persistent energy and continued activity have given Technology a course of which every Tech man may indeed be proud.

Francis W. Chandler was born in Boston on the thirtieth of September, 1844, and, like a good Bostonian, still lives in the city of his birth. When ten years old, on account of ill health, he went to Lancaster, Massachusetts, to spend the summer; finding the change of great benefit, he remained there while completing his preparatory work for Harvard. The outbreak of the war, however, changed his plans, and, with a number of his friends, he enlisted in the 53rd Regiment of Massachusetts Volunteers. Preparatory training at their first camp at Groton being finished, the regiment was sent to New York, and from there embarked on the steamer Continental for New Orleans. After a very stormy voyage the ship reached her destination, and the regiment went into camp in a swamp, close to New Orleans. The discomforts of this first camp were indeed great; in the night a heavy rain set in, the few tents were completely soaked and the marsh was turned to water, which before morning, was covered with a thin sheet of ice. This first night in camp was the beginning of the decimation of the regiment, which, however, finished the Red River campaign and encamped before Port

Hudson. The regiment, which had enlisted for nine months, returned home after the surrender of Port Hudson, having seen a year of hard service. All were suffering severely from malaria and the effects of the poor water they had been forced to use. After being mustered out of service with his comrades, Professor Chandler returned to Lancaster; for months he was under the doctor's care, and, indeed, he has never fully recovered from the exposure and hardships of the Red River campaign.

About this time he decided upon Architecture as his profession, and so entered the office of Messrs. Ware and Van Brunt, who were then practicing in Boston. Professor Ware had not then taken charge of the architectural work at the Institute. After spending three years in this office, Professor Chandler went to Paris and entered the *atelier* Daumet, doing the regular work of L'École de Beaux Arts for two years. Mr. C. F. McKim and Mr. R. S. Peabody were his fellow-students, and together they have seen most of France, tramping over her mountains and rowing upon her rivers.

At this time the Institute was making bold steps forward, and the large increase in the number of students made necessary a proportional increase in the corps of instructors. As Professor Chandler was about to return from Europe, Professor Ware invited him to become his assistant at the Institute; this position he accepted in the fall of 1869.

The following winter Mr. Mullett, the supervising architect of the Treasury Department, asked Professor Chandler to come to Washington and become his assistant. As this was an exceedingly good opportunity to become familiar with work on a large scale, the offer was accepted. After spending three years in this work, Professor Chandler, in 1874, resigned and entered into partnership in Boston with Mr. E. C. Cabot, the well-known architect and President of the Boston Society of Architects. This firm continued in active practice until the fall of 1888, when, on the resignation of Mr. G. W. Clark from the Institute, Professor Chandler accepted the Professorship of Architecture offered him by the Corporation.

While in business, Professor Chandler made three trips abroad for the sake of further architectural study; the first to England, among the old cathedral towns, through Scotland and its islands, and then on to Paris. The second was again through England, much of the journey being made in a dogcart, for starting from Liverpool, he drove southward through Cheshire, Shropshire and Warwickshire to Oxford. This trip was made principally for the purpose of studying the old half-timbered "Black and White" houses of the sixteenth century. Professor Chandler was fortunate in having letters of introduction which gave him the entrée to many English homes; thus he had unusual opportunities for studying both the inte-

riors and exteriors of the fine old houses of this period. Much attractive material was brought home, as the trap had been well equipped with camera and sketchbooks. Not long after, his third English pilgrimage was made, this time through Devonshire.

Since his connection with the Institute Professor Chandler has made two other trips abroad; one through France and Switzerland; the other, and perhaps the most interesting of all his travels, was that of last winter, to investigate the latest excavations and discoveries in Pompeii, Rome, and Greece. While in Athens he met Mr. Dürpfeld, and procured for the Institute a great number of photographs made by the German school. In Rome he bought a goodly number of casts from moulds taken especially for him; these, as soon as placed in position, will prove of the greatest assistance to the work of the Architectural Department. Perhaps the most valuable copy, among the many he procured, is that of the cornice of the Temple of Concord, which was set up in the Tabularium by Canina, and which may safely be said to be the finest example extant of the Corinthian cornice.

After visiting the places of most interest in Greece, Professor Chandler, taking a slow steamer from the island of Corfu, made a most enjoyable cruise along the Dalmatian shore. Stops were made at some twenty-five places, ample time being given to enjoy this architecture, which shows so well the influence of Venice at the time of her early prosperity. From Trieste, the end of this voyage, the course was shaped for home. Venice, Florence, Siena, Pisa, Genoa, the Riviera and Avignon were visited on the way to Spain. Here three weeks were spent, and then the steamer taken from Gibraltar for home.

When Professor Chandler took charge of the architectural work at the Institute, he at once began to strengthen the courses under his direction, and lead them along more purely architectural lines; in this work he was aided not a little by the hearty approval and encouragement of the entire Faculty. The greatest step toward raising the standard of the work of the whole department was the abolition of the "Partial Course." Among other improvements in this direction was the lessening of the First Year Chemistry work, to give greater time to subjects more closely connected with architecture, the development of the course in Graphical Statics, at the expense of the more purely mechanical engineering work, and the substitution of a most thorough course in Heating and Ventilation for the old Third Year work in Heat.

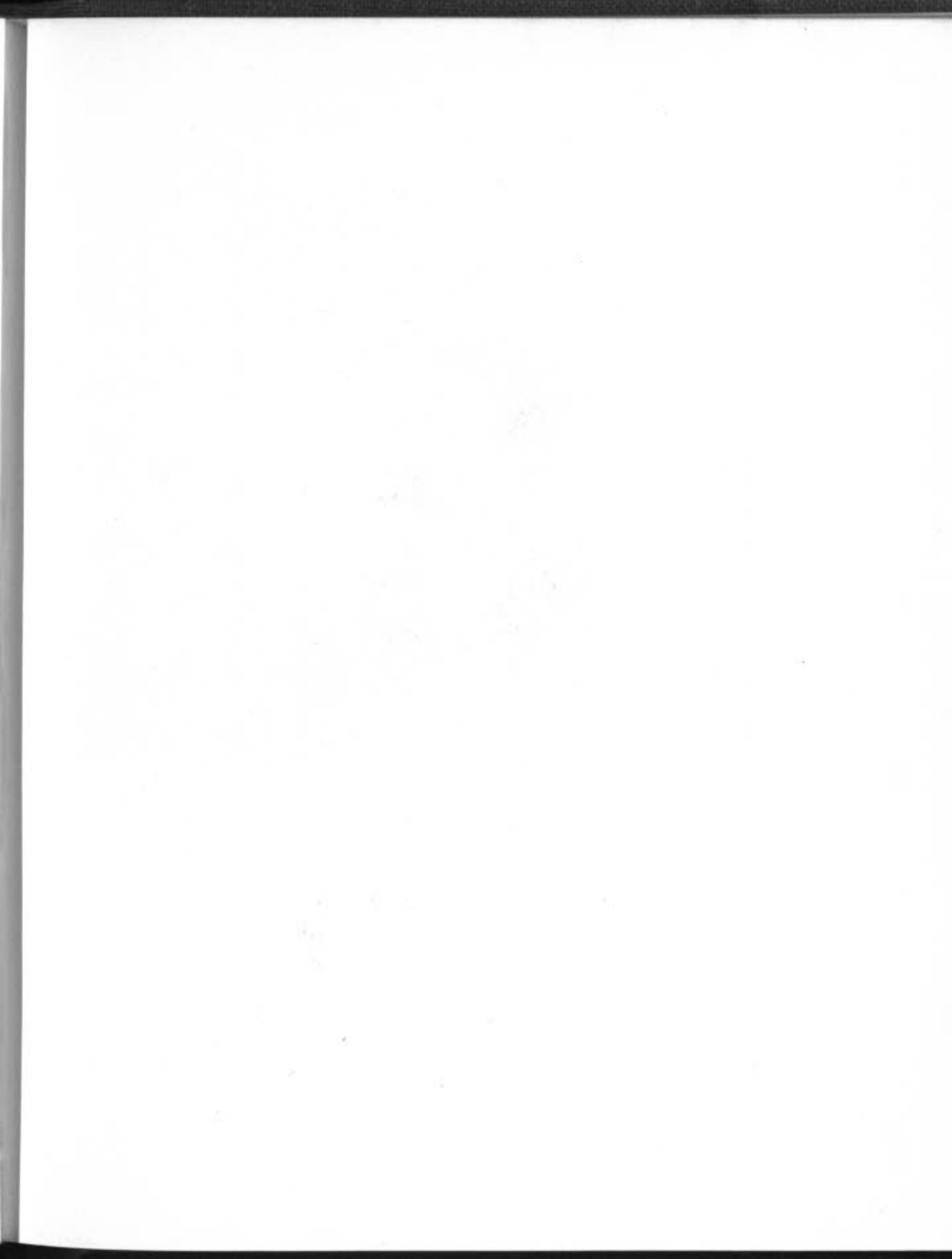
In the department proper, Professor Chandler has done much in raising the standard of the purely professional work. The course in Freehand Drawing has been greatly strengthened, and the Life Class has become an

assured success. Professor Chandler is looking forward to the time when his plans for an ideal architectural school can be carried out. Some day he hopes to see a new building, built around a court, large enough and high enough to show off properly the largest details. Such a plan would obviate the use of reduced copies, in which can never be seen the spirit of the original work. Then his pupils could become familiar with the real proportions of the old monuments, studying them as Vignola studied them, measuring and comparing, carefully making drawings from full-sized casts, with every line of the original before them. We sincerely hope that some day, in the near future, his wish may be gratified, and that Technology may be the first to introduce so attractive a method of architectural instruction.

Although Professor Chandler's influence is felt in every department of his course, his own work relates more especially to the History of Architecture and Details of Construction. Besides being eminently well fitted, by his travels and practical experience, to lecture upon these subjects, Professor Chandler has given to them most careful and searching study; his lectures, elaborately illustrated by stereopticon views, prepared for him from photographs taken while abroad, are a delight which his students long remember. Professor Chandler early appreciated the need of proper "Construction Details," and was led to publish his set, which is without an equal. As the result of his study of building materials and drainage systems, he has prepared a set of notes on "Limes, Cements, Mortars, and Concretes," which, with his pamphlet, "A Few Hints on Drainage," have proved of the greatest value to the Course.

Professor Chandler's name has recently been added to that list of distinguished men whom Technology has loaned to Massachusetts to assist in her public works. It is indeed gratifying to Tech men that the head of our Architectural Course should have been chosen by the Mayor of Boston to be his representative and professional adviser in all matters pertaining to city buildings; to approve the selection of architects and plans; in short, to assist the Mayor in all municipal building operations which, as Chief Executive, that official is expected to direct.

So well known is Professor Chandler's deep interest in all of Technology's future architects that it seems almost superfluous to dwell upon it here. As an instructor, his students have ever found him cheerful and ready to give help and information. His influence has left its imprint, not only upon his Course, but also upon all those who have come in contact with him. Those whose good fortune it has been to study under him, recall with pleasure his unfailing kindness and deep interest in the progress and success of all Course IV. men.

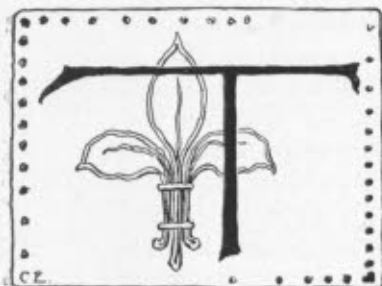






Mr. T. Sedgwick.

## WILLIAM T. SEDGWICK.



THE editors take especial pleasure in including in this volume of *TECHNIQUE* a short sketch of Professor Sedgwick's life; not only because this enables us to express our appreciation of the labors of one of Technology's most enthusiastic supporters, but also because we feel that the life of this teacher teaches a lesson which all Tech men should learn. It shows most clearly the results of that training which a

broad college spirit, an active participation in the social, as well as the intellectual side of student life, alone can give. So, although limited space forbids more than a brief account of Professor Sedgwick's history, we wish to dwell most strongly upon his college career; for it is a picture of that true student life which, to promote at Technology, is the reason for *TECHNIQUE*'s existence.

Forty years ago, on December twenty-ninth, 1855, William T. Sedgwick began his studies of Biology in West Hartford, Connecticut. Before these studies had made much progress they were interrupted by the death of his father, and the removal of his mother and himself to Farmington, Conn. As a boy he had no intention of going to college, but two far-sighted women in Hartford, where he went to attend the Hartford High School, perceiving that his talents fitted him for a broader field of usefulness than a country town could offer, persuaded him to continue his education and to prepare for Yale.

In 1874 he began his college career as a member of the class of '77 "Sheff." From the first he took an active interest in all the affairs of his class, and after a short time became one of its leading members, both in the class room and outside. He was twice in succession made President of his class, and had the especial honor of holding that office in Senior year. Throughout his life at Yale he commanded, in no ordinary degree, the respect and esteem of his student associates and instructors, and this was due no less to his social and moral qualities than to the uniformly high standard of his scholarship. A college mate says that one secret of Professor Sedgwick's success was the breadth of his human sympathies, which gave him a wider outlook than that of many men of his own age. Being born and bred a country boy, he had that understanding and appre-

ciation of the "plain people" which perhaps such an origin alone can give. His mind, however, early reached out toward the best that city life, with its more complex social standards, could afford. The result was a more than ordinarily well-balanced and just view of life, which gave him a greater hold than any other member of his class upon his fellows.

At Yale, where the many societies play such a prominent part in college affairs, a man of Professor Sedgwick's qualities could not long remain unconnected with Fraternity life. At the end of his Freshman year he joined Berzelius, one of the best-known scientific secret societies in "Sheff," and throughout his college life was one of its most active and prominent members. We learn from one of his friends that to this society training may be attributed, in a great measure, Professor Sedgwick's ease in conducting public meetings, and indeed no small part of his literary ability may be traced to the same source. To-day some of his college friends recall with pleasure the essays he read on subjects ranging from October woods and golden-rod to bacteria and digestive ferments; these undoubtedly were the exercises which served to form his easy, graceful, and withal eminently careful style.

It is said that as a young man, perhaps the two most prominent characteristics of Professor Sedgwick were his love of nature and the best literature, and, throughout the absorbing details of technical scientific study, these have never forsaken him. An excellent botanist, he was the center of a small but enthusiastic circle of friends who made many excursions into the country in search of rare and interesting plants. On these botanizing trips his fellows learned how deep was his love for nature, and how intimate his acquaintance with the lore of birds, and trees, and rare plants. But he was no less fond of books, and the works of Lowell, Tennyson, Holmes, Longfellow and Bryant were his daily companions, to which he turned as a relief from the severer studies of the scientific course. In 1877 Professor Sedgwick was graduated from Yale with the degree of Bachelor of Philosophy, leaving at "Sheff" an enviable record as a student.

As a young man Professor Sedgwick intended to study medicine, and become a practicing physician; and with this end in view he had taken the regular biological course, in order to be thoroughly prepared for his medical studies. He entered the Yale Medical School in the autumn of 1877, and planned to graduate at the end of the regular course. At the same time he was much occupied as a private tutor or "coach," and thus began to learn how to teach.

When about to enter upon his second year in the Medical School, a chance was given him to prove his ability as an instructor. Professor Chittenden desired to go to Europe for a year, and being thus obliged to

give up his class in Physiological Chemistry, "Sedgwick, '79, Med.," successfully taught this subject in the Sheffield Scientific School in his stead, at the same time keeping up some of his regular medical studies. Although still intending to take his M.D., in 1879 the offer of a Fellowship in Biology at Johns Hopkins University led him to interrupt his medical work, in order to pursue more thoroughly the subjects which underlie medicine. The interruption proved to be more than temporary. Thanks to the influence of Professor H. Newell Martin, who recognized that Professor Sedgwick was by nature better fitted to preach Biology than to practice Medicine, he was persuaded to give up his medical course and devote his life to teaching.

In 1880 he was appointed Assistant in Biology at Johns Hopkins, and in 1881 this University gave him the degree of Doctor of Philosophy. In the same year he was married to Miss Mary K. Rice, of New Haven, a member of the class of '83 in Smith College. The next year he was appointed Associate in Biology at the University. This position he held until 1883, when he left Baltimore to become Assistant Professor of Biology at the Institute. Professor Sedgwick brought to Technology a ripe scholarship and established reputation in Biology, and an atmosphere of his own, invigorating and inspiring. Under his management the Department of Biology has been characterized by great earnestness and thoughtfulness on the part of the students, and this result is largely due to his personal influence. To tell of Professor Sedgwick's work at Technology would be to write the history of our Biological Course,—a subject of too great importance to be treated in this limited space. Made Associate Professor in '84, and Professor in '91, he has been a most active and earnest worker for the advancement of the Institute. He has done much to encourage a growth of college spirit among our students, both in his official capacity, as a member of the Faculty, and as a charming host; for Professor and Mrs. Sedgwick, in their hospitable home, have done much to show Tech men that classmates do exist outside the laboratories and lecture halls. The students of Course VII. have always found Professor Sedgwick an interesting lecturer and an interested teacher, and all Institute men, regardless of course or class, who have known him at all, have known him as a kindly gentleman and a true friend.

The famous investigation of the Massachusetts State Board of Health of the purity of inland waters and methods of purifying water and sewage, gave Professor Sedgwick the opportunity to make for himself a world-wide reputation as an investigator in the new science of Bacteriology. His connection with this work dates from 1884, when he was associated with Professor W. R. Nichols in an important investigation of coal and water

gas. In 1888 Professor Sedgwick was appointed Biologist to the State Board of Health. Quick to recognize the far-reaching importance of this investigation of the water problem, he threw all his thought and energy into this great work. The result of his labors, published in his professional papers, have won for him a place among the first authorities in the world on the purification of water and sewage. In connection with this work, he was called upon by the State Board of Health to investigate epidemics of sickness in the State. His studies of typhoid fever have been characterized by great thoroughness and acuteness, and his reports to the Board on typhoid epidemics belong to the classic literature on this disease.

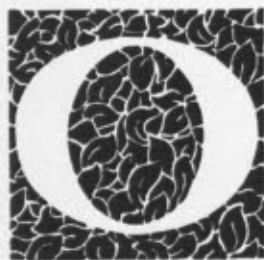
In spite of his many and absorbing duties, Professor Sedgwick has made a number of additions to scientific literature. In 1886, in collaboration with Professor Willson of Columbia, he published "An Introduction to the Study of Biology," a text-book for high schools and colleges, which has been received with the greatest favor. His papers on "Typhoid Fever in relation to Milk and Water Supply" and on educational subjects, are perhaps the best known of his published contributions. As a Fellow of the American Academy, a Member of the Boston Society of Civil Engineers, and a prominent member of the different Biological Associations, Professor Sedgwick has well represented Technology in the high places where scientists do congregate.

Professor Sedgwick has the true teacher's art of establishing immediate and close intimacy with his students, anticipating their thoughts and questions, sympathizing with them in their difficulties, and making them feel that they have in him a fellow-student. But he is more than a teacher of his science, through him many a student has obtained his first clear view of a life of broad culture. Scores of graduates of the Institute look back on their days of association with him with the liveliest emotions of gratitude for his inspiration and helpfulness, and for broadening the horizon of their lives.

Not long ago a gentleman who had been at Yale with Professor Sedgwick was asked to tell something about the college life of his old classmate. After speaking of offices held and honors won, he ended by saying: "I have seldom known a man who, without being in any manner a muff or a prig, had a greater scorn for anything unmanly. Prominent as he was in college politics—and Yale is the most political of all colleges—he never was known to take an unfair advantage or to be on the wrong side of any really important question. He stood for the best and most enlightened of his fellows." No better conclusion than this can we find, unless it be to add, "The boy is father of the man."



## THE NEW OLYMPUS.



HHC

ONCE on a time the dwellers in Olympus—  
The gods men fear no more—  
Grew restive, longing for the power and glory  
They knew of yore.

And cried, "Behold, our fame is all forgotten!  
As night effaceth day  
The mighty deeds that made the whole world wonder  
Have passed away.

"Let us go hence! One spot there yet remaineth,  
One city fair and great,  
The 'Modern Athens,' meet for gods' abiding  
In classic state.

"Let us go thither! With the pomp and glory  
That once we proudly wore,  
We will descend upon that favored city,  
And reign once more!"

They came! In Phœbus' chariot they descended  
By heaven's star-lighted way;  
And in their waving banners bright were blended  
The red and gray.

They came enthroned in wisdom, strength, and glory;  
The city by the sea  
Beheld a new Acropolis, and named it  
The M. I. T.

Here brawny Vulcan set his mighty forges,  
And metal marvels wrought;  
Here feather-footed Mercury's swift fingers  
The lightnings caught.

Here Mars and Neptune earth and ocean conquered,  
And here Apollo's skill  
Subdued all fairest art, all subtlest science,  
To work his will.

Here sage Minerva sat and taught severely  
Our dear, demure "Co-eds";  
Here the nine muses filled with staidest maxims  
Their pretty heads.

Here even sly Dan Cupid whets his arrows,  
And unrebuked goes he;  
For all the gods have gained their old-time glory  
In M. I. T.

Long may they dwell with us, these bright immortals,  
Ruling earth, air, and sea;  
Guarding in wisdom's name the sacred portals  
Of M. I. T.



### WOULD YOU?

I would not be a Yale boy,  
Reformers to annoy;  
Nor yet a Harvard student,  
Defeat I don't enjoy.

I would not be a Brown boy,  
Nor wear the Princeton hues.  
Potato bugs may do as much;  
Such models I'd not choose.

I would not be an Amherst boy  
On hill-tops bleak and bare;  
To be a U. of P. man  
I'm sure I would not care.

And I'll *never* be a Tech boy,  
I'm sure as sure can be;  
For I am but a Co-ed,  
And couldn't, don't you see?

## THE GRIND'S LAMENT.



NOT long ago I met a grind,  
With thin and sallow cheeks,  
With dark-ringed eyes that had not known  
Of peaceful sleep for weeks,  
A brow all seamed with puzzling out  
Strange names and formalæ,  
A mouth that never, never smiled  
Save at a hard-won "C."

Much moved with pity at his state,  
I ventured some advice.  
"Go out into society,"  
Said I, "and cut some ice,  
Forget that your titanium  
Is three per cent too low;  
And that a meta-chlor-benzene  
Reacts with—so-and-so."

He shook his head and sadly spoke:  
"Your theory is immense,  
But for these crazy sciences  
I've bartered common sense.  
I cannot talk of anything  
That people want to hear;  
On weather and society  
I've not one sane idea.

Æsophageal commissures  
I mention smooth and glib;  
My palsied tongue will never frame  
The simplest genteel fib!  
I've learned of dikes and chromosomes,  
Of seniorage and rent,  
But what avail? I cannot make  
A joke or compliment."

The light that twinkled in his eye  
Now died away once more;  
And sadly spoke the wretched man,  
While turning toward his door,  
"You're going out to make a call?  
I really wish I might,  
But there is that old Pol. Econ.  
I've got to plug to-night."





AIR: "PARADISE ALLEY."

There's a small "private way" which we use every day  
 When at "Arch." and "Eng." buildings we rally.  
 Since by Course II. and I. it is most used, for fun  
 They call the place Engineer's Alley.  
 Now in this little street there's a couple of feet  
 Of mud; so one day I kept tally—  
 I counted, I'll swear, fifty gum shoes stuck there,  
 In the mud of the Engineer's Alley.

CHORUS.

Every Monday, Wednesday, and Friday, too,  
 The mud is waiting, sticky, and soft as glue;  
 Over all the air's a beautiful blue,  
 Due to the mud in the Engineer's Alley.



AIR: "O UNCLE JOHN!"

Freshman green came into Second Year;  
 Had to take the Physics course.  
 Freshman green had not the slightest fear;  
 Thought with Physics he'd play horse.  
 Freshman green believed the course a "cinch"—  
 "Didn't have to take a note."  
 When the semi-annuals came  
 This is what he wrote:—

CHORUS.

O Charley Cross! isn't it nice in Physics!  
 O Charley Cross! here I intend to remain.  
 O Charley Cross! now that I've tried the "exam,"  
 I like this subject so very much, I'll take it right over again.

AIR: "I DON'T WANT TO PLAY IN YOUR YARD."

---

Once there worked side by side two Tech Co-eds;  
Up in the First Year Lab. their little heads  
Chock full of molecules they tried to stuff,  
Each hoped by this process their exams to bluff.  
Together they jollied Pope and Bardwell,  
Thus what was in a salt they learned to tell.  
One day a quarrel came, Maud got a C;  
May, who had done the work, pulled but the P.

CHORUS.

I don't want to work at your desk,  
You're not my affinity,  
You can't use my filter paper,  
Let my Bunsen burner be.  
I won't grant you Avagadro's law;  
You can't use my  $H_2O$ .  
I don't want to work at your desk,  
If you're going to treat me so.



AIR: "SHE WANTED SOMETHING TO PLAY WITH."

---

Nice young girl—to M. I. T.  
Came to take—Biology;  
With microbes—cunning germs,  
Wished to be—on friendly terms.

CHORUS.

She wanted something to play with,  
Something to love and adore;  
Something attractive and pretty,  
Something to love evermore.  
She wanted something to play with,  
Something to love and adore;  
Germs and protoplasm—for her pets she has 'em  
Forevermore.



## HAIL, FRAGRANT SPRING AND SNOWDROPS!

What fleecy atoms from the cold gray sky,  
By Euros favored, on her pinions fly  
To kiss, with icy lips, the pallid brow  
Of snowdrops nestled here in sheets of snow.

Thus life hath winter—but if love be warm  
Hearts fling defiance to the world's rude storm,  
And laugh to scorn the fiercest winds that blow;  
For, as the snowdrops live, love's flowers can grow,  
And will like ivy round the dead long cling,  
With hope of fairer life revived in spring.

Hail, fragrant Spring, smile-wreathed and brightly fair!  
The myriad-voiced Creation welcomes thee;  
Hearts, chilled by nature's winter as with care,  
Implore that thou wouldst kind and gentle be.

Fair Queen of Seasons! soon unveil thy face,  
And in thy virgin grace and splendor stay.  
Warm with thy kiss the Earth's cold heart, and chase  
All else save joy and gladness far away.



## GRINDS.



Gentle reader, should you be offended  
At aught that herein meets your view,  
Most humbly do we beg your pardon,  
It's far from our wish to hurt you.

You see, we had to grind some one,  
Or over our book you'd have snored.  
If the joke goes too far—no hard feeling—  
Have one on yours truly,

THE BOARD.

---

ENGLISH AS SHE IS SPOKE.

FRESHMAN (at supply room): "Please give me a piece of indignation tubing."

## EUREKA.

I've found out why he shakes his head  
While he those cute proofs hatches;  
It isn't done for emphasis—  
His collar button scratches.

P.-H, '97: "Did you say that on the application of heat all things tended to change from the solid to the liquid state?"

PROFESSOR CL-FF-RD: "Precisely!"

P.-H: "Well, how is it when you boil an egg?"



## THE ART OF WAR?

CAPTAIN B-G-L-W (lecturing to the Freshmen): "— and thereby compel the enemy to-ah-er-ahim, show his hand, as it were."

CAPTAIN B-G-L-W (later in the same game): "The advantage of a bluff is —" (tumultuous cheers show that the Captain is not lecturing over the heads of the audience).



Learning that the Freshmen contemplate adopting a "class pipe," the TECHNIQUE Board submits this design, which, we feel sure, will at once commend itself to the members of this progressive class.

#### FUN?

Of course I like the M. I. T.;  
 Jolly good place for fun, you see.  
 You can work from nine to six by day,  
 And from seven to one at night, they say,  
     And go to bed  
     With an aching head  
 And a weary sense of work undone,  
 And a wonder strong as to where's the fun  
     If you study at M. I. T.

"WHAT was the trouble with Archey Tech? Hear he left the 'Stute' on account of his eyes."

"Yes; he couldn't see his way to a degree."



THE MODERN NOVEL ILLUSTRATED.

"Ships that Pass in the Night."

ON FREEHAND CH-RL-Y OR P--E-?

PROF. P-B-DY (making a sketch): Pardon this drawing; when I was a student we did not have freehand. Still, I don't suppose it would have done me any good if we had.

FRESHMAN (troubled in finding the "Eng." Building): "Will you please tell me where the English Building is?"

A TIME SAVER.

PROFESSOR F-NC-: "By this means you can, without any more unnecessary steps than are necessary, get onto the facts—"



THE END OF THE SEASON.

"All that was left of them."

PROFESSOR B-T-S: "The only thing that will ever do that boy any good is to hang him." (Explaining) "In other words, they would have to hang him to straighten him out."

TRY ORANGE PHOSPHATE.

MR. BL-CHST--N (after calling the roll): "I see a great many this morning that are not here."

PROFESSOR CL-FF-RD (upon receiving a bunch of roses from a section of Seniors):  
 "Thank you, gentlemen; but you must remember that these can have nothing to do  
 with the 'flowers that bloom in the spring'!"



Machine Tools.—"22-inch Shaper."

SANG FROID

DR. N-Y-S sent a bill to the Bursar for "One set of gold-plated weights."  
 Upon recovering consciousness the Bursar inquired, "Why gold plated?"  
 DR. N-Y-S: "Because solid gold is too expensive."

ERH-DT (in German): "Is küssen regular or irregular?"  
 C-MPB-LL: "Decidedly regular."

## A GOOD CAUSE.

THE usual Technology timidity has restrained us, and we have waited hoping that others would recognize, and take proper steps to discharge, the great debt that the Institute owes to one of her most devoted supporters. Since none have come forward to assume this responsibility the TECHNIQUE Board announces that it will receive subscriptions for the erection of a suitable memorial of this man, to whom we owe more than we can ever repay. It is our intention to have this testimonial take the form of a mural tablet, engraved with the following inscription, which will be erected on some suitable spot as soon as the necessary funds are obtained:—

TO THE EVERLASTING HONOR OF THAT

**Unselfish Patriot**

**CH-RL-S H-NRY L---S N-P-L--N B-RN-RD**

WHO, IN THE HOUR OF NEED, DID NOT HESITATE TO SACRIFICE

**His Dearest Possessions**

UPON THE ALTAR OF DEVOTION TO  
 TECHNOLOGY

**This Memorial is Erected.**

Greater love hath no man than this, that a man shave off his  
 beard for a play.





ONE night I sat grinding on Valve Gears and Heat,  
While my lamp flickered low, and the sounds from the street  
Came fainter and fainter: the clock on the tower  
Betimes broke the silence and rang out the hour.  
My head slowly sank till it lay on my breast,  
And quick I was sleeping the sleep of the blest.

I dreamt that the gods and the great men of old,  
Of whom we have read, and of whom we've been told  
Had left high Olympus, to us had come down,  
And settled among us right here in this town.



I dreamt that old Charon, the boatman of yore,  
Sold books to the Navals at Mac's Co-op store;  
That Hercules now, as a museum freak,  
Was the strong man at Keith's at \$10 per week;

That Atlas, who'd held up the world all his life,  
In Boston could hardly support his own wife!  
Lycurgus and Solon, the wise men of Greece,  
At Tech, at the "semies," got two flunks apiece.



The ven'erable Homer, the muse at his beck,  
Wore goggles, wrote "Loungers" and verse  
for *The Tech*.

I dreamt that Dan Cupid, who shoots folks  
for fun,  
Went to drill with Freshmen and juggled a  
gun.



That Pluto, as "Special," was not doing well,  
And had been heard to wish he was back home in hell.  
I thought that young Bacchus, the sport of old Greece,  
Was caught in the chapel disturbing the peace.



That Venus, about whom our fancies have grown,  
Was a gay living picture with Austin and Stone.  
That Cræsus, once wealthy, was no longer flush,  
For he'd paid his tuition, and bet on the "rush."

Then, I dreamt that my roommate was Noah—'twas a joke  
That banished my slumbering so—I awoke.  
I looked at my watch and jumped up in dismay,  
I could just get to Math., if I ran all the way!

# \$5,000 REWARD!

IN GOLD

For the arrest and conviction of the person, or persons, who on Saturday,  
February 16, 1895, feloniously attempted to abduct  
Master W-rd W-ll-ngt-n W-rd.

IN the interests of public morals TECHNIQUE offers the above reward. At the same time we call upon all citizens to assist us in our efforts to unearth this mystery, for, unless our college is soon freed from the presence of men whose sole occupation is *Child Stealing*, we may, ere we realize our danger, lose the entire Class of '98.



We are indebted to MASTER W-RD for the above picture of the leader of the conspiracy—taken on the spot with a Kodak—and the following account of the attempted abduction and description of the leader of the gang.

"Enticed to a lonely spot by a bogus telegram, I was met by a big, bad man who invited me to take a ride with him. Just as I was about to enter the carriage, the sight of six burly brutes beneath the back seat reminded me that I had been told never to ride in cabs with strange men. Although I informed the man that I could not accept his invitation, he tried to persuade me to accompany him. I then told him to 'Stand back, or his heart's blood stained the copse.' Then he left me."

The leader of the gang was about seven feet tall and unusually thick set; face, broad and short; pug nose; mouth, very large, though almost hidden by a heavy, yellow beard, which he has probably since removed. When last seen he wore a dirty felt hat, an old ulster, large, light leather shoes and carried a heavy club. For further particulars consult W. W. W., Toastmaster '98 Freshman Dinner.

"HA! HA!" HE SAID IN PORTUGUESE."

"CRITIQUE sur L'Architecture Contemporaine en France,' with stereopticon views in French."

### WANTED.

Oh, for a little capital to push my splendid scheme!  
And then behold! I'd have more gold than you or I can dream.  
If I'd but the necessary start I'd bid farewell to toil;  
I'd only take enough to make a 'corner' in 'midnight oil.'  
Then, after the Semi-Annals, I'd hire a good, strong clerk  
To cut coupons from Government bonds—for I'd be done with work.

### "BY THESE SIGNS."

L-N-S: "So to speak."

T. P-P: "Immejetly."

H-RRY CL-FE-RD: "As I think you will very readily see."

THE SECRETARY: "See me in regard to —"

C. CR-SS: "Are there any questions?"

W-ND-LL: "As a matter of fact it is just the other way."

C-RR-R: "Or what not."

ARL- B-T-S: "Beeeen."

?

Who is it down at M. I. T.  
Who says your record is N. G.,  
That if you wish for your S. B.  
To call on

Truly yours,  
H. T.

Who is it if you get a D.  
Will write you a note — *i. e.*,  
To call or else R. S. V. P.  
At once to,

Truly yours,  
H. T.

PROFESSOR M-LL-R (in Valve Gears): "This engine was very hard to start, especially when you had a load on."



Thanks to the kindness of Professors Schwerrill and Mamb, we are enabled to reproduce a specimen page of their *edition de lux* of "NOTES ON COTTON MACHINERY." The book is now in press, and may soon be obtained from Ridler, \$37.63 *net*, or at the "Co-op" for \$1.28.



## A SKETCH.

HIS smiles are like our birthdays,  
 They come but once a year;  
 His voice is as the trombone,  
 So deep, and loud, and clear.  
 He's always like the autumn crop  
 That every farmer hath,  
 For it's in our hero's nature  
 To be ever after "math."  
 If we could see his head inside,  
 I'll bet we'd all agree  
 We'd never seen in all our lives  
 So many formulæ.  
 His talk's as full of wisdom  
 As an egg is full of meat;  
 His hat's as full of cerebrum  
 As his shoes are full of feet.  
 And when he ambles down the walk  
 The students all cry, "Say,  
 There goes our Math. instructor,  
 With a new tie on to-day,"  
 For his neckties are in number  
 As the sands along the sea.  
 'Twas a lucky thing for Blanchard King  
 When he met Dana P!

## TEN MINUTES WITH BL-CHST--N.

"SOMETHING," said Bl-chst--n, as he tightly closed the windows and curtains and then plugged the keyhole with tabular views, to prevent the intrusion of any stray sound waves, "must be done to stop this pernicious use of the dictionary. It is a fearful waste of time. To translate German all that is necessary is a little common sense and a vivid imagination. Now here is the word *Cinte*; to get its meaning, strike off the prefix *t*, change *te* to *k*, for euphony, and we see at a glance that it means ink. Another example; we may add *o* to *Kahn* without affecting its value. Now even Mr. F-ld can see that *Kahno* is the same as canoe—a boat. Take the word *Gefachete* for instance, of which the root is evidently *faehete*, *achete* has no weight, so we ignore it, and we get *f-ete*. But you know that *F* = *Ma*, hence *Gefachete* means mate. So you are saved the trouble of looking it up and then getting it wrong. In short, gentlemen, remember the beautiful words of our great poet, which exactly voice my sentiment:—

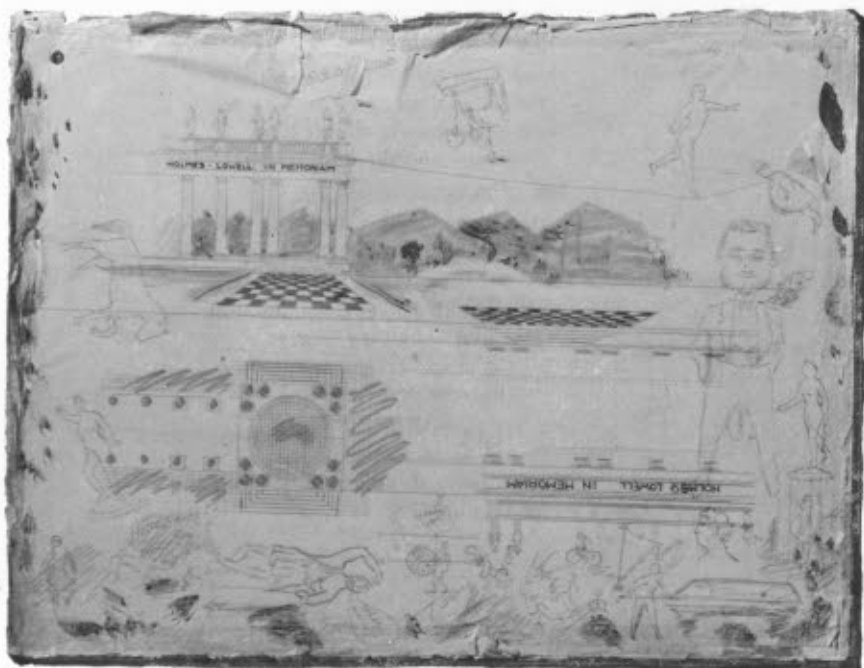
"Throw dictionaries to the dogs is my advice to you,  
 And if you fail to take it, I'll fail to let you through."

PROFESSOR CR-SS (to class coming late from President Walker's lecture):  
"Gentlemen, you will oblige me by reporting the guilty Instructor."

"WHERE IGNORANCE IS BLISS."

FRESHMAN: "Mrs. Stinson, please give me an inverted porcelain crucible cover."

MRS. STINSON: "Here's the crucible cover, and" (turning cover and Freshman down simultaneously) "now it's an inverted one."



This photograph from life throws some light upon why the Artful Dodger did not receive  
First Mention in Design.

FIRST SENIOR: "Does the Farmer's Alliance meet to-day?"

SECOND SENIOR: "The what?"

FIRST SENIOR: "Why, the Ninety-Six Class Day nominating committee."

#### IN PHYSICS LECTURE.

[From the darkness, during stereopticon views, certain kissing sounds are heard in vicinity of the Co-eds.]

PROFESSOR CR-SS: "Gentlemen, when a thing like this occurs in the lecture room, it is my invariable rule to stop the experiment, and let you try it upon whatever objects you may be able to find."

"DEATH LOVES A SHINING MARK."

If this is a maxim true,  
We hope with all our might  
That Charley C, from now henceforth,  
Will keep his hat on tight.

Mr. B-RR-S-N (to Osg-d ex. '97, who has repeated a plate for the third time):  
"That drawing is not fit to hand in; you'll have to do it once more."

OSG-D: "Good gracious, Mr. B-rr-s-n! Do you think I'm Michael Angelo?"



The "Cross hairs" as they appear in the modern telescope.

"MAKING GAME OF IT."

M-S-N, '97: "How did you like the game at the class dinner?"

H. W. ALL-N: "Game?"

M-S-N, '97: "Certainly; I had some of that capon myself."

NONCOMMITTAL.

PROFESSOR CL-FF-RD: "Mr. K-mb-rlly, what is your reason for believing the First Law of Thermodynamics?"

K-MB-RLY, '97: "I don't know that I knows that I know."





THE TECHNIQUE Board, realizing that the popularity of an annual is proportional to its success as a long-felt-want filler, has spared neither time nor expense in order to discover and satisfy such cravings. Previous Boards have gratified every whim of the Tech man, while he was in this life and able to purchase TECHNIQUES, but it has remained for this Board to provide for the happiness of "Constant Reader" when he ceases to read at all. Believing that nothing can give greater satisfaction to a self-respecting corpse than a neat and tasty label, we have established the TECHNIQUE EPITAPH BUREAU, which is now prepared to furnish pleasing sentiments for monuments, doorplates, for tombs, etc., etc. The following samples give but a slight idea of the large and varied assortment we constantly carry in stock; to those who desire a custom-made article, we should be pleased to furnish plans and specifications, as our facilities for doing this class of work are unequalled.

For terms, etc., address EPITAPH EDITOR, TECHNIQUE '97.

Regardless of cost we've erected this stone,  
And lettered it "B-RDW-LL. ADDRESS UNKNOWN."  
He may be in heaven, you never can tell,  
But we selfishly hope he is living in hell;  
If he is, when we go there—to do which we're fated—  
We'll find Hades cool and well ventilated.  
No more fumes of sulphur; you bet B-rdw-ll would  
Give the place to the imp who did not "use a hood."

Arl- B-t-s lies sleeping here.  
He's happy—so don't waste a tear—  
Whether he's an imp or saint.  
If he is where Will Carlton ain't,  
And if these two perchance have met,  
Don't weep for Arl-, don't you fret.  
But, if you still have tears to burn,  
Just drop a few on Carlton's urn.

Gentle J-ck P-ch-n lies buried here.  
He passed from this earth in the eighty-fifth year,  
Of his life, of course? No, you're easy fruit.  
His eighty-fifth year at the Institute.

Here lies the body of Ch-ri-s F. A. C-rr-r,  
Who never more will trouble or worry yer.  
That he may slumber soundly we've buried him deep,  
So we're on the safe side if he talks in his sleep.

Oh, Tech Ninety-Six  
Has crossed o'er the Styx.  
Now Tech Ninety-Six  
Is in a great fix,  
For Tech Ninety-Six  
With the angels can't mix  
Till Tech Ninety-Six  
Makes her sins equal nix;  
So Tech Ninety-Six  
In Hades still sticks.

If it's true that the punishment fits the crime,  
Tech '96 will stick there sometime.

Weary D-v-d D-dl-y F--ld  
Sweetly sleeps beneath this rock.  
I'll bet when Gabriel's trumpet sounds,  
He'll say, "Oh! darn that nine o'clock!"

Technology's Bursar, Alb-rt M. Kn-ght,  
Is deposited here, to be drawn on at sight,  
When his term bill falls due at the great judgment day.  
Though I'm no seer or prophet, I venture to say  
That he'll have to wait years, in the smoke and the heat,  
While the Bursar below makes out his receipt;  
And each Institute fellow will say, "Serves him right!"  
When he thinks how he waited for Alb-rt M. Kn-ght.

C. B-rn-rd's an angel now,  
Golden halo on his brow  
Unless there's been a change in things,  
C. H. L. N. wears misfit wings.



### A DISCOVERY.

I was playing with Professor, and I thought I'd try a bluff.  
At once the board was covered with the balance of my stuff.  
Imagine my vexation, my feelings of amaze,  
When he smiled at me and made an un-X-pected Röntgen raise.



Second-year Mechanism.—“A Dead-beat Escapement.”

### TECHNOLOGY FABLES.

#### I.

Once upon a time a Senior applied to take a certain course at Tech. Now it happened that this course was not given that year, so the young man did not take it. Before long he received a notice from the office requesting him to explain his absence from this subject. Thinking to enlighten the Secretary, he went to that gentleman and told him that there was no such course, and hence he could not take it. Dr. T-l-r, however, blandly informed the Senior that, since he had applied to take the course, he must take it until he petitioned to be excused from it.

This fable teaches us that the malt extract is never on H.W.T.

#### II.

Not wishing to lose any chance to add to his store of knowledge, a young man once asked Professor B-t-s if he might not study English in the summer, and in the fall take the exam. in that subject, and so pass it off. “No, indeed,” quoth Arl-; “such a course would indicate that the English Instructors and I are entirely superfluous.”

This teaches us many things that the student will easily see for himself.

Little Willey's left the "'Stute,"  
For there he never throve, or  
Got along; his last report  
Was lettered

## f ALL OVER

THE "PROPELLED-BY-A-CRANK" JOKE UP TO DATE.

PROF. CR-SS (swinging a ball about his head): "You see, gentlemen, that if I allow this body to revolve about an eccentric axis —"

Oh, Junior Week comes once a year,  
That's true—yet, so to speak,  
Within the days which follow, drear,  
There's many a Junior weak.

ONE YEAR BEHIND.

C-RT-R (keeping class until 3.15): "Beg your pardon, gentlemen, but I was thinking it was last year."



THE MODERN NOVEL ILLUSTRATED.

"Behind Closed Doors."

SORRY, BUT WE MUST.

K-N-ST-N, '97 (translating): "... welche offenbar aus Polen stammten ...  
Who quietly slid down a pole."

DR. D-PP-LD (tearfully): "Don't put that in TECHNIQUE."

#### LINES UPON A FAVORITE "TROT."

'Tis often said, that when in bed  
Man only knows a happy space;  
While on life's road, this soft abode  
His only peaceful resting place.

Some may feel so, but this I know,  
I'd give my bed—I tell no fib—  
And still might reap my share of sleep,  
If they but let me keep my crib.

ENGLISH INSTRUCTOR: "Mr. S., give an example of a barbarism."

MR. S.: "Next!"

M. B-RN-RD: "You have no great actors in this country."

NINETY-EIGHT MAN: "Have you heard Professor B-t-s read Shylock?"

PROFESSOR CR-SS (lecturing on center of gravity): "I once had an egg which  
would stand on end, but it is not available at present."

OPTION IN COURSE IX. ALTERNATE YEARS:

Mr. D-ck-ns-n's whiskers.



"A Civil Engineer."

# COED'S COZY CORNER

ENTERED AT THE POST OFFICE AS FIRST-CLASS FEMALE MATTER.  
PUBLISHED SEMI-OCCASIONALLY.

VOLUME XIII. NUMBER 97.

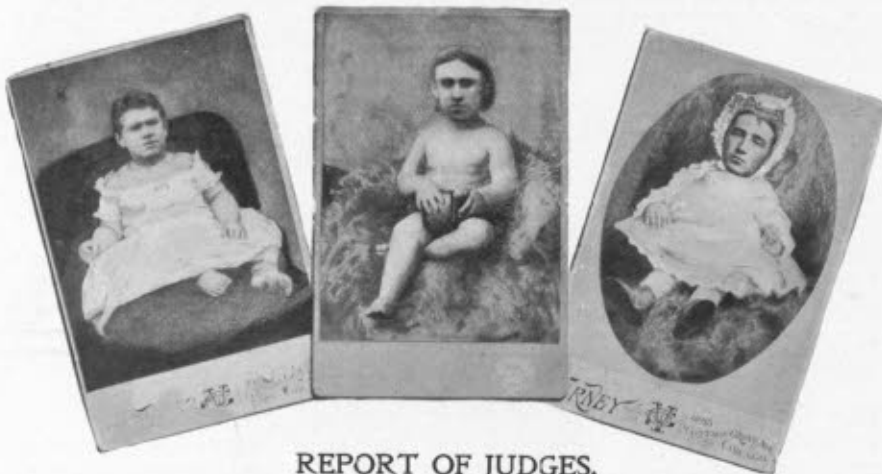
Chelsea, April 1, 1896.

PRICE, A DEAD GIVE AWAY.



Front Elevation of a Graduating Frock for a Young Miss.  
(For plans and specifications see Supplement.)

## TECHNOLOGY BABY SHOW.



## REPORT OF JUDGES.

**FIRST PRIZE.**—Petroleum Motor, Ball Bearing, Pneumatic Tired, Steam Heated Baby Carriage. Won by "Baby K-and-ll."

**SECOND PRIZE.**—Souvenir Pap Spoon. Won by "Birdy Br-mh-ll."

**THIRD PRIZE.**—Woolly Sheep, with patent bleat. Won by "Bubby E-rl."

HAVING carefully examined the many entries in the Technology Baby Show and thoughtfully considered the points of each infant, the judges unanimously agree in the above award of prizes. While the duty of sorting over this bevy of baby beauties has been a great delight, our task has not been wholly pleasant. We realized that we had only three prizes to award, and that whatever our decision might be some little heart would ache. We can only say to those little chaps who were unsuccessful,

that it is not always the showy qualities of a prize winner that endear a baby; for a winsome smile, illuming a whole home, is more to be desired than straight legs.

For the judges,

C. H. L. N. B-RN-RD.

"THE B-RD."

In the following table the maximum number of points for each quality is given in the column at the left:—

	"BUBBY."	"BIRDY."	"BABY."
3.5 Weight . . . . .	10.00	.750	2.00
1.0 Length over all . . . . .	.25	1.000	.75
1.5 Breadth of beam . . . . .	3.00	.230	1.00
5.0 Size of cranium . . . . .	7.00	.000	11.00
9.5 Ears (shape and size) . . . . .	5.00	15.000	10.30
10.0 Smile (area) . . . . .	8.00	11.000	23.70
18.0 Food consumption . . . . .	33.00	.010	15.00
7.0 Adipose tissue . . . . .	15.00	.005	5.00
31.0 Lung capacity . . . . .	10.00	74.000	58.00
5.0 Linguistic attainments . . . . .	4.00	10.000	14.00
3.0 Dental development . . . . .	2.00	.300	1.00
0.5 Manners . . . . .	.30	.001	.30
5.0 Confirmation . . . . .	1.00	.300	3.00
100.0	98.55	118.595	143.05

### A New Game.

Have any of our readers played the new game of "Characteristic Initials"? It is especially adapted to little impromptu parties, for the only requisites are pencils and paper and a few friends. Write down the initials of some one you know, then try to find words beginning with these letters that aptly describe the person you have chosen.

The following examples show how much real fun may be gotten from this simple and inexpensive game. It will be well for the hostess to suggest refreshments before relations between the different contestants become strained.

Eager Arrogant Bawler . . . E. A. B-LDW-N.  
 Livid Ferocity . . . L. F-NC-  
 Hot Ore Handler . . . H. O. H-FM-N.  
 Jovial Smiler . . . J. S-ND-R-CK-R.  
 Demonstrates Rigidly Dates . . . D. R. D-W-Y.  
 Tester of Easy Precipitates . . . T. E. P-F-  
 Corrects Railway Arrangement . . . C. R. ALLEN.  
 Accumulative Money Keeper . . . A. M. KN-GHT.  
 Humming After Preferment . . . H. A. P-PP-NH-S-N.  
 Wriggling Tadpole Slicer . . . W. T. S-DGW-CK.  
 Gravitational Velocity Wizard . . . G. V. W-ND-LL.  
 Correct Lettering Artist . . . C. L. AD-MS.  
 Generator of Laughter . . . G. L-NZ-  
 Calculator of Rapid Currents . . . C. R. CR-SS.



### Pet Proverbs.

*A collection of the favorite maxims of famous men.*

THE S-CR-T-RY: "Learn to say no!"  
 F-NC-: "Love me little, love me long."  
 C. B-RN-RD: "Faint heart ne'er won fair lady."  
 THE B-RS-R: "Haste makes waste."  
 DR-W, '97: "Talk is cheap."  
 R-DL-R: "He who is worth doing at all is worth doing well."  
 THE GRIND: "Honor and fame from no conditions rise."  
 D-W-Y: "To er-r-r is human."  
 P-DR-URQU-Z- Y B-: "A good name is better than precious ointment."

### Bear in Mind

That 79,863 yards of red tape were used at Tech last year.

That 99.97 per cent of the petitions are refused.

That thirty-seven reams of chocolate pie are consumed each week in the Lunch Room.

That the Bird prefers that you do not whistle.

That the proof in Wentworth is *not* "just as good."

That the circulation of *The Tech* last week was 5,768,309½ copies.

That statistics show that 100 per cent of the Institute men spend per year all they can get.

That during the four years at the Institute a student climbs fifty miles of stairs.

That you do not have to read these facts unless you want to.



### "Books that have Helped Me."

Realizing that some of our girls may some day want to buy a book, we publish, as a guide to their choice, the names of the favorite volumes of several prominent people. Many of our readers will be interested in tracing the influence of the book upon the man.

CR-SS: "Unabridged Dictionary."  
 L-NZ: "Twice-Told Tales."  
 B-T-S: "Will Carlton's Ballads."  
 W-LLS: "Wentworth's Geometry."  
 THE B-RS-R: "Twenty Years After."  
 THE B-RD: "Much Ado about Nothing."  
 THE OFFICE ASSISTANT: "Three Years in a Man Trap."  
 D-CK-NS-N: "The Ladies' Home Journal."  
 "FREEHAND" AD-MS: "My Letter Plates."  
 H. L. H-WTH-RN: "Paradise Lost."  
 The S-CR-T-RY: "Called Down;" a sequel to "Called Back."



### Uncle Art's Heart-to-Heart Talks with his Girls and Boys.

"In this quiet corner I love to gather my girls and boys about me, to talk over our little troubles and make the hard places soft."—*Uncle Art*.

**GRIND:** While there is no rule to prohibit your cutting wisdom teeth, I should advise you not to let the Secretary hear of it.

**SUBSCRIBER:** Yes, Dr. Tyl-r was once an editor of *The Tech*. It is only fair to him, however, to add that he has succeeded in living this down.

**BIRDIE:** No gentleman would whistle to a lady to attract her attention. If the person continues to do so, tell him quietly that you cannot be his friend.

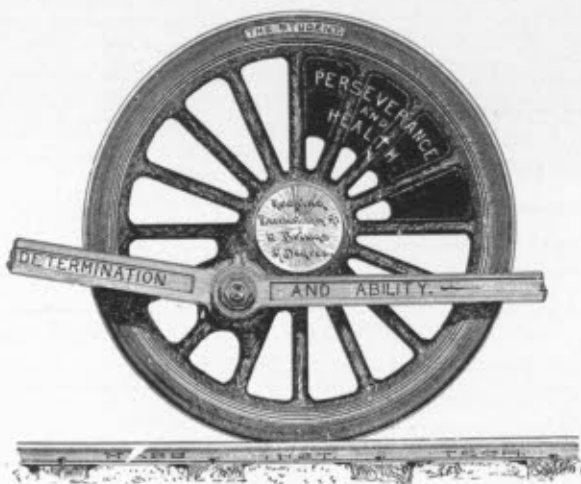
**T-MM-Y P-P:** 1. Pronounced im-mē-di-ate-ly. 2. I know of no way to change the color of a colorless red tie. 3. Yes. 4. No. 5. Certainly.

**ENGLISH:** You will find the quotation "That's the stuff, papa!" in the third of our series of papers on "Unknown Sons of Distinguished Men." See the Co-ed's Cozy Corner for March.

**C. H. L. N. B.:** Yes, it is quite the correct thing for a gentleman to have some private and distinctive perfume. I should suggest Ammonia. No, I cannot let you have my photograph.

**G. V. W-ND-LL:** If your pupil is paying you too pronounced attention, you should show her that you can never be more than a friend. Remember that you must not let the young woman wreck her fair, young life by contracting a hopeless attachment for you. Thanks for your kind words.

**F. W. DOL-B-R:** If the Secretary continues to force the obnoxious "Explain your absence" cards upon you, I should certainly call and ask his reasons for intruding upon your privacy.



### NOTICE.

WISHING to excite a keener interest in "Descrip" among his little pupils, Professor F--nc- will next term give, for each perfect plate, a pretty picture card. We publish above a copy of one of these rewards of merit. Are they not well worth trying for?

**"Tangled Knots."**

My first is the time from dawn to dark;  
 My second the Y. M. C. A. men will mark.  
 My third's a ravine, from the public view,  
 Sufficiently hid to be pleasant for two.  
 If first, second and third correctly you see,  
 You'll find me a Prof. in Course IV. M. I. T.

DES-PRA-DELLE.



When is a Prof. not a Prof.?  
 When he is a Pope.



Why is the Mason Mule like the largest  
 state in the Union?  
 Because it is Tech's ass.



What is the difference between the man  
 who receipts a term bill, and the man who  
 waits thirty-seven minutes for the receipt?  
 One is a cross Bursar, and the other is a  
 boss curser.



My first is the husk in which Cr-ss's jokes  
 grow;  
 My second's a vowel which isn't O.  
 My third's a male child, and my whole, at  
 one clip,  
 Is that jolly instructor who teaches  
 "Descrip."

BURR-I-SON.



Why is the "gentle and loveable" Linus  
 cuter than a little deer?  
 Because he is, at least, as cute as two  
 little deer, for he is *fawns*.



What is the difference between the  
 "faithful hound" in Excelsior and C. H.  
 L. N. B-rn-rd?  
 One was a St. Bernard, and the other  
 is—well, just plain B-rn-rd.

**Announcement.**

The publishers of the Co-ed's Cozy Corner point with pardonable pride to the list of distinguished contributors whose services have been secured for the ensuing year. In addition to improving the regular features of the C. C. C., we have left no stone unturned in our efforts to obtain new attractions. The following is but a partial list of those who will grace our columns during 1896.



Miss Henrietta D-ck-ns-n, whose "Talks on Tidies" have been so helpful during the past year, will preside over our new department, devoted to woman's interests, and call it "Cheney Room Rumors."

Three papers from the pen of that well-known society man, H-rry W. Tyl-r, upon the "Polite Art of Letter Writing," will be hailed with delight by our readers.

E. P. M-s-n, the famous naturalist, will favor us with a series of popular papers upon the "Game Birds of America." In our next issue will be published the first of these articles, a beautiful picture of the home life of the Philadelphia Capon and the Welsh Rabbit.

Miss Charlotte Cr-ss, the distinguished educator, will contribute a series of articles on "Kindergarten Methods."

Arl- B-t-s has promised us a sequel to his charming story, "A Lad's Love," entitled "A Co-ed's Courtship."

G-t-n- L-nz- will give us two sparkling, little comedies, suitable for Church Fairs and Sunday-school entertainments.

Signorina Tomasa P-p- will publish a paper on "Dancing Made Easy; or, Every Man His Own Terpsichore."

That distinguished advocate of dress reform, C. H. L. N. B-rn-rd, will edit our "Fashion's Freaks and Fancies."

The Rev. L-n-s F-n- will conduct our "Kind Words Column."

MR. SW-N (to Professor R-nkl-, who is coming out of a room in Rogers, during the progress of an examination, with his hat and coat on): "Ah! Professor R-nkl-, you are leaving early this morning."

PROFESSOR R-NKL-: "Yes; couldn't do a thing to it!"

#### AN EXPLANATION.

Lady Somerset's darling, M-nt-g- - H-ll,  
Said that wine at a dinner would not do at all.  
Milk, pure and sweet, he desired to state  
Was the beverage selected for good Ninety-Eight.  
Though bumpers of milk were drained at each toast,  
Prohibition, alas, was "left at the post."  
At least half the class appeared "fine as silk."  
Can it be that the Freshmen drank Modified Milk?

PRESIDENT OF '99: "You haven't signed the Class constitution yet."

P-CT-R, '99: "I can't; it takes too much time from my studies."

#### "DESCRIP."

A popular course is Descrip at Tech.,  
With an encore every year,  
From no end of men, who again and again  
In its class room reappear.

#### INDEED!

PROFESSOR B-T-S: "The first white child born in Virginia was-er-ar-er was born there."



"The Woman in the Case."

# QUOTATIONS



## QUOTATIONS.



"Fine Words! I wonder where you stole 'em."

"Generally speaking."—*B-l-dw-n*, '96.

"He has a face like a benediction."—*Mr. D-ck-us-n*.

"If dirt were trumps what hands you'd hold!"—*M-r-*, '97, *Schw-rtz*, '97, *C-k*, '97.

"When I was with him  
I have heard him swear."—*Dr. W-lk-r*.

"I never did repent for doing good."—*Mrs K-ng*.

"But this place is too cold for hell!"—*Huntington Hall*.

"A Comedy of Errors."—*Railroad Notes*.

"Thou, who hast the fatal gift of beauty."—*P-gh*, '97.

"In truth he is but an infant wearing trousers."—*F-rr-s*, '97.

"A wilderness of sweets."—*Margaret Cheney Reading Room*.

"Whistle and I'll come to you."—*The Bird*.

"A song to the oak, the brave, old oak,  
Who hath ruled in the greenwood long."—*Professor R-nkl*.

"Before I knew thee, Hal, I knew nothing."—*F-sk*, '96.

"Nay, you shall find no boy's play here, I can tell you."—*Tech*.

"You must come in earlier o' nights."—*G. I. F-sk*, '97.

"O hard condition!"—*Physics*.

"You must confine yourself within the modest limits of order."—*M-usf-ld*, '97.

"All the perfumes of Arabia will not sweeten this little hand."—*After Chemical Lab*.

"His better does not breathe upon the earth."—*The President*.

- "'Tis pleasant, sure, to see one's name in print;  
A book's a book although there's nothing in't."—*Valve Gears*.
- "His face is good and comely, and though he much may rue it,  
However it squirms and twists, there's the Irish sticking through it."  
—*T. P. J. M-g-g-r-r*, '97.
- "My very noble and approved good masters."—*The Faculty*.
- "I am as ugly as a bear,  
For beasts that meet me run away in fear"—*M-r-r*, '97.
- "He knows me as a blind man knows a cuckoo"—*The Secretary*.
- "One seeks new friends only when too well known by old ones."—*J. D. Und-rw-d*, '98.
- "Giddy in spirit, still gazing in doubt,  
Whether these peals of praise be his or not."—*Professor Cr-ss*.
- "For sufferance is the badge of all our tribe."—*The Assistants*.
- "I never heard a passion so confused,  
So strange, outrageous, and so variable"—*English lecture*.
- "I would be friends with you, and have your love."  
—*J. D. J. M. (Post Grad., thank goodness!)*
- "But though they wrote it all by rote,  
They did not write it right."—*F = Ma*.
- "How much more elder art thou than thy looks!"—*Mr. W-nd-ll*.
- "My life is one demmed, horrid grind."—*Course VIII. man*.
- "I say the earth did shake when I was born."—*D. D. F-l-d*, '97.
- "I am not now  
That which I have been."—*Special*.
- "We can afford no more at such a price."—*Notes on Stereotomy*.
- "Thou hast a pestilential gall, young man."—*S. A. H-k-r*, '97.
- "Yet I am not altogether an ass."—*Dr-w*, '97.
- "This gentleman is learned, and a most rare speaker."—*Professor C-rr-r-r*.
- "How poor a thing is man! Alas, 'tis true;  
I'd half forgot it, when I chanced on you."—*C. T. Br-mh-ll*, '97.

"I have a good eye. I can see a church by daylight."—*Mr. M-r-r-ck*.

"Why did my parents send me to the schools?"—*M. W. All-n*, '96.

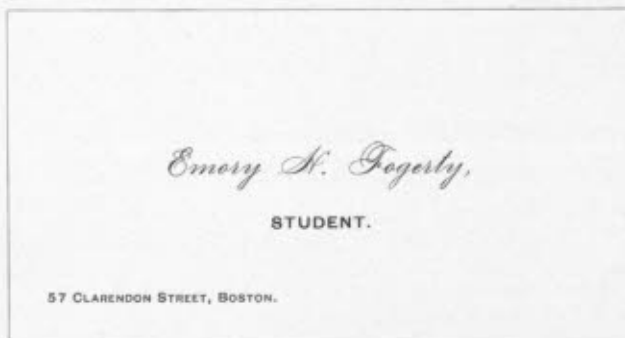
"But thy eternal verdure shall not fade."—*G-r-dn-r*, '98.

"I do desire we may be better strangers."—*Term Bills*.

"O wonderful, wonderful! and most wonderful wonderful! and yet again wonderful, and after that out of all whooping!"—*The Cane Rush*.

"They come to see? They come that they themselves may be seen."—*B. U. girls*.

"I woke one morning and found myself famous."—*F-g-rty*, '98.



"The Fatal Card."

"And since, I never dare to write as funny as I can."—*F-g-rty*, '98.

"In seeking wisdom thou art wise; in imagining thou hast attained it, thou art a fool."  
—*The Soph*.

"— he smiled a kind of sickly smile."—*Professor S-nd-r-ck-r*.

"A wit with dunces,  
And a dunce with wits."—*K-lly*, '98.

"I know it is a sin  
For me to sit and grin  
At him here"—*Senior in Applied*.

"He does it with a better grace,  
But I do it more natural."—*Mr. L-mb-rth in Forging*.

"How dry I am, how dry I am;  
Nobody knows how dry I am."—*Physical Measurements*.

"Thy middle name is greatest of them all."—*W-rd Wellington W-rd*.

"I don't believe there's no sich a person."—*Average Student*.

"If there should be another flood,  
For refuge here I'd fly;  
For, though the world be all submerged,  
This book would still be dry."—*Thermodynamics*.

" $99\frac{44}{100}$  pure."—*W. C. Ew-ng*, '96.

"He grins like a Cheshire cat."—*T-rry*, '98.

"And what is this new book the whole world makes such a rout about?"  
—*TECHNIQUE*, '97.

"Who was it said, 'Sir, if you please,  
I'll trouble you to pay your fees,  
We never trust for no degrees?'"—*The Bursar*.

"Unknit that thinking, unkind brow."—*Mr. H-mbl-t*.

"He was perfumed like a milliner."—*C. H. L. N. B.*

"A still, small voice spake unto me:  
'Thou art so sure of thy degree,  
Were it not well to have a spree?'"—*The Senior*.

"Let me rest."—*W-rc-st-r*, '97.

"I am farther off from heaven—  
Than when I was a boy."—*L-p-r*, '98.

"To know one's bent and then pursue,  
Why, that is genius, nothing less;  
But he who knows what not to do,  
Holds half the secret of success."—*Choice of Courses*.

"Placed in his chair of state he seems a god,  
While Sophs and Freshmen tremble at his nod."—*The Head of the Course*.

"The last link is broken  
That bound me to thee,  
And the words thou hast spoken  
Have rendered me free."—*The Graduate*.



# STATISTICS.



## SUMMARY OF EXPENSES OF STUDENTS AT THE INSTITUTE.

THE Board of Editors published, during the last term, a set of questions concerning the expenses of students attending the Institute.

These questions were sent to the students in the three upper classes, and, as a result, about two hundred sets of answers have been received; upon these the following results are based. Seniors answered for all four years, while Juniors and Sophomores answered for their first two years and first year respectively. Hence the smaller number of results for the second, third, and fourth years.

Two sets of questions were prepared. Students living away from home were asked the following questions: What did your first, second, and third years cost? What did your room cost per week? What did your board cost per week? What did your text-books, instruments, etc., cost each year? What did your breakage bill amount to? What would you consider a fair allowance for a student at Tech for his first, second, third and fourth years? Those who lived at home were asked: What did your text-books, instruments, etc., amount to? What did your breakage bill amount to?

Beyond the first year, only students in chemical courses have breakage bills; hence these have been tabulated for the first year only. In the second, third, and fourth years, however, they amounted to from twenty-five to sixty dollars; these amounts include supplies.

The following tables are arranged to give the number of students, in each year, whose expenses were between the amounts set opposite the columns headed "Men."

TOTAL COST OF YEARS.

Amount. Between	Men. 1st Year.	Men. 2d Year.	Men. 3d Year.	Men. 4th Year.
\$200- 299	3	2	1	0
300- 399	5	3	3	3
400- 499	10	4	2	3
500- 599	9	11	6	2
600- 699	21	9	3	5
700- 799	7	7	7	5
800- 899	10	0	5	4
900- 999	3	1	0	0
1000-1099	5	1	1	1
1100-1199	0	2	0	0
1200-1299	4	1	1	1
1300-1399	0	0	1	1
1400-1499	0	1	1	0
1500-1599	1	0	0	0
1600-	0	0	0	1

COST OF BOARD AND ROOMS.

Board per Week.		Room per Week.	
Amount.	Men.	Amount.	Men.
\$1.50	1	\$1.00	3
2.50	5	1.25	3
3.00	12	1.75	17
3.15	1	2.00	16
3.50	28	2.50	35
3.75	2	3.00	19
4.00	54	3.50	19
4.50	12	4.00	22
4.75	1	4.50	7
5.00	24	5.00	7
6.00	18	6.00	4
6.50	3	7.00	2
7.00	2	8.00	2
8.00	0	9.00	4
9.00	0	10.00	6

## COST OF TEXT-BOOKS, INSTRUMENTS, ETC.

Amount. Between	Men. 1st Year.	Men. 2d Year.	Men. 3d Year.	Men. 4th Year.
\$10-14	0	4	2	1
15-19	0	2	2	1
20-24	2	8	5	2
25-29	8	13	3	4
30-34	14	8	4	5
35-39	17	7	2	2
40-44	27	12	4	7
45-49	17	4	2	2
50-54	24	7	4	4
55-59	8	8	4	1
60-64	10	0	1	3
65-69	5	0	0	0
70-74	4	0	0	0
75	2	0	0	0

## BREAKAGE BILL.

Amount. Between	Men. 1st Year.
\$1- 2	0
2- 3	3
3- 4	13
4- 5	16
5- 6	18
6- 7	9
7- 8	19
8- 9	18
9-10	10
10-11	11
11-12	4
12-13	0
13-14	0
14	0

## ESTIMATES FOR ALLOWANCE FOR EACH YEAR.

## STUDENTS LIVING AWAY FROM HOME.

Amount. Between	Men. 1st Year.	Men. 2d Year.	Men. 3d Year.	Men. 4th Year.
\$300- 349	1	0	1	0
350- 399	1	3	1	0
400- 449	3	0	1	2
450- 499	4	2	2	0
500- 549	10	9	3	2
550- 599	3	1	2	4
600- 649	13	8	2	2
650- 699	5	2	3	0
700- 749	13	8	1	1
750- 799	3	1	1	4
800- 849	9	3	3	2
850- 899	0	0	1	2
900- 999	4	2	0	0
1000-1099	2	1	1	2
1100-1199	0	0	0	1
1200-1299	2	0	0	0
1300-1399	0	2	0	0
1400-1499	1	1	1	0
1500-1599	0	1	1	1
1600	0	0	0	1

## STUDENTS LIVING AT HOME.

Amount. Between	Men. 1st Year.	Men. 2d Year.	Men. 3d Year.	Men. 4th Year.
\$100- 149	4	0	0	0
150- 199	4	0	0	0
200- 249	1	1	0	0
250- 299	4	0	2	0
300- 349	2	1	1	1
350- 399	7	1	3	2
400- 449	1	0	0	0
450- 499	4	0	0	1
500- 599	5	3	2	2
600- 649	2	1	0	0
650- 699	1	1	1	1
700- 749	3	0	0	0
750- 799	1	0	0	0
800- 849	2	0	0	0
850- 899	1	0	0	0
900- 949	0	1	1	1
950- 999	0	0	0	0
1000-1099	1	0	0	0
1100-1199	0	0	0	0
1200	0	0	0	0

# SUMMARY OF GRADUATES BY COURSES FROM 1868 TO 1895\*

Year	Course I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.	Total.
1868	6	1	6	0	0	0	0	0	1	0	0	0	0	14
1869	2	2	0	0	1	0	0	0	0	0	0	0	0	5
1870	4	2	2	0	1	0	0	0	1	0	0	0	0	10
1871	8	2	5	0	2	0	0	0	0	0	0	0	0	17
1872	3	1	5	0	3	0	0	0	0	0	0	0	0	12
1873	12	2	3	1	7	0	0	0	1	0	0	0	0	26
1874	10	4	1	1	0	0	0	0	2	0	0	0	0	18
1875	10	6	6	1	1	0	1	1	2	0	0	0	0	27
1876	12	9	7	0	5	0	2	3	4	0	0	0	0	43*
1877	12	6	8	4	2	0	0	0	0	0	0	0	0	32
1878	8	2	2	3	3	0	0	0	1	0	0	0	0	19
1879	6	8	3	1	3	0	1	1	0	0	0	0	0	23
1880	3	0	3	0	1	0	0	0	1	0	0	0	0	8
1881	3	5	6	3	8	0	1	0	2	0	0	0	0	28
1882	2	5	5	3	6	0	1	1	1	0	0	0	0	24
1883	3	7	5	1	3	0	0	0	0	0	0	0	0	19
1884	5	6	13	0	12	0	0	0	0	0	0	0	0	36
1885	4	6	8	2	4	2	0	0	1	0	0	0	0	27
1886	9	23	7	1	7	10	1	0	1	0	0	0	0	59
1887	10	17	8	1	9	8	1	1	3	0	0	0	0	58
1888	11	25	4	5	10	17	3	1	1	0	0	0	0	77
1889	15	23	5	3	8	17	1	1	2	0	0	0	0	75
1890	25	27	3	5	13	18	3	2	6	0	0	0	0	102
1891	17	26	4	6	11	23	3	3	1	7	0	1	0	102
1892	22	26	4	13	7	36	6	1	7	4	6	1	0	133
1893	25	30	5	2	8	41	2	0	6	8	0	2	0	129
1894	21	31	4	13	11	33	1	3	5	12	3	0	0	137
1895	25	30	3	15	13	33	0	2	4	11	4	0	5	145†
Total,	293	332	135	84	159	238	26	20	53	42	13	4	5	1,405

Deduct names counted twice . . . . . 11  
Net total . . . . . 1,394

\* One graduate of Course of Metallurgy in 1876.

† Counted twice, two.

# INSTRUCTING STAFF FOR THE YEAR 1895-1896.

	Professors.	Associate Professors.	Assistant Professors.	Instructors.	Assistants.	Total.	Lectures.	Total.
ARCHITECTURE . . . . .	2	1	0	2	0	5	5	10
BIOLOGY, ZOÖLOGY, ETC. . . . .	1	0	1	3	1	6	1	7
CHEMISTRY . . . . .	1	2	3	11	6	23	6	29
CIVIL ENGINEERING . . . . .	1	3	0	4	2	10	1	11
DRAWING AND DESCRIPTIVE GEOMETRY . . . . .	0	0	1	5	1	7	0	7
ENGLISH, HISTORY, AND POLITICAL SCIENCE . . . . .	2	1	1	3	0	7	0	7
LANGUAGE . . . . .	1	1	1	4	0	7	0	7
MATHEMATICS . . . . .	4	0	3	4	0	11	0	11
MECHANIC ARTS . . . . .	0	0	0	3	3	6	0	6
MECHANICAL ENGINEERING AND APPLIED MECHANICS . . . . .	1	1	3	6	6	17	0	17
MILITARY TACTICS . . . . .	1	0	0	0	0	1	0	1
MINERALOGY, GEOLOGY, AND GEOGRAPHY . . . . .	1	0	1	1	0	3	0	3
MINING ENGINEERING AND METALLURGY . . . . .	1	1	1	0	0	3	1	4
NAVAL ARCHITECTURE . . . . .	1	0	0	1	0	2	0	2
PHYSICS AND ELECTRICAL ENGINEERING . . . . .	2	0	3	6	2	13	12	25
TOTAL . . . . .	19	10	18	53	21	121	26	147

## DISTRIBUTION OF STUDENTS.

### UNITED STATES.

California . . . . .	8	Missouri . . . . .	9
Colorado . . . . .	7	Montana . . . . .	1
Connecticut . . . . .	27	Nebraska . . . . .	2
Delaware . . . . .	5	New Hampshire . . . . .	30
Dist. of Columbia . . . . .	16	New Jersey . . . . .	5
Florida . . . . .	1	New Mexico . . . . .	1
Georgia . . . . .	2	New York . . . . .	64
Idaho . . . . .	1	Ohio . . . . .	37
Illinois . . . . .	42	Oregon . . . . .	1
Indiana . . . . .	2	Pennsylvania . . . . .	36
Iowa . . . . .	12	Rhode Island . . . . .	21
Kansas . . . . .	4	South Carolina . . . . .	5
Kentucky . . . . .	11	Tennessee . . . . .	1
Louisiana . . . . .	2	Texas . . . . .	3
Maine . . . . .	38	Utah . . . . .	5
Maryland . . . . .	9	Vermont . . . . .	5
Massachusetts . . . . .	721	Virginia . . . . .	5
Michigan . . . . .	7	Washington . . . . .	1
Minnesota . . . . .	5	West Virginia . . . . .	3
Wisconsin . . . . .	7		

Total number of States represented . . . . . 39  
 Total number of students from same . . . . . 1162

## DISTRIBUTION OF STUDENTS.

### FOREIGN COUNTRIES.

Brazil . . . . .	1	New South Wales . . . . .	1
Central America . . . . .	1	Nova Scotia . . . . .	2
Chile . . . . .	1	Ontario . . . . .	2
Cuba . . . . .	3	Porto Rico . . . . .	1
England . . . . .	2	Quebec . . . . .	2
Japan . . . . .	2	Spain . . . . .	1
Mexico . . . . .	1	Turkey . . . . .	3
New Brunswick . . . . .	1	Venezuela . . . . .	1

Total number of foreign countries represented . . . . . 16

Total number of students from same . . . . . 25

United States . . . . . 1,162

Foreign countries . . . . . 25

Total . . . . . 1,187

# COLLEGE STATISTICS.

Name.	Location.	Founded.	Students.	Inst'rs.
AMHERST . . . . .	Amherst, Mass.	1821	451	36
ATLANTA UNIVERSITY . . . . .	Atlanta, Ga.	1869	255	23
BOWDOIN . . . . .	Brunswick, Me.	1794	363	30
BROWN UNIVERSITY . . . . .	Providence, R. I.	1764	844	85
BRYN MAWR COLLEGE . . . . .	Bryn Mawr, Pa.	1880	286	33
BUCHTEL . . . . .	Akron, Ohio.	1870	245	17
COLGATE UNIVERSITY . . . . .	Hamilton, N. Y.	1819	325	49
COLLEGE OF NEW JERSEY . . . . .	Princeton, N. J.	1746	1088	79
COLUMBIA . . . . .	New York City.	1754	1838	269
CORNELL . . . . .	Ithaca, N. Y.	1868	1654	167
DARTMOUTH . . . . .	Hanover, N. H.	1769	387	50
DE PAUW UNIVERSITY . . . . .	Greencastle, Ind.	1839	707	40
DICKINSON . . . . .	Carlisle, Pa.	1783	350	22
HAMILTON . . . . .	Clinton, N. Y.	1812	160	17
HARVARD UNIVERSITY . . . . .	Cambridge, Mass.	1636	3600	366
HOBART . . . . .	Geneva, N. Y.	1825	85	18
ILLINOIS . . . . .	Jacksonville, Ill.	1829	220	12
JOHNS HOPKINS UNIVERSITY . . . . .	Baltimore, Md.	1867	583	103
LEHIGH UNIVERSITY . . . . .	So. Bethlehem, Pa.	1866	415	38
LELAND STANFORD, JR., UNIVERSITY . . . . .	Palo Alto, Cal.	1887	1066	76
MASS. INSTITUTE OF TECHNOLOGY . . . . .	Boston, Mass.	1865	1187	147
MT. HOLYOKE . . . . .	South Hadley, Mass.	1837	331	44
MUHLENBERG . . . . .	Allentown, Pa.	1867	178	12
NIAGARA UNIVERSITY . . . . .	Niagara Univ., N. Y.	1857	250	56
NORTHWESTERN UNIVERSITY . . . . .	Evanston, Ill.	1851	1784	202
OBERLIN . . . . .	Oberlin, Ohio.	1833	1422	77
OHIO STATE UNIVERSITY . . . . .	Columbus, Ohio.	1870	817	85
POLYTECHNIC INSTITUTE OF BROOKLYN . . . . .	Brooklyn, N. Y.	1854	719	49
PERDUE UNIVERSITY . . . . .	Lafayette, Ind.	1874	650	67
RENSSELAER POLYTECHNIC INSTITUTE . . . . .	Troy, N. Y.	1824	165	27
SMITH . . . . .	Northampton, Mass.	1875	875	46
SYRACUSE UNIVERSITY . . . . .	Syracuse, N. Y.	1870	1000	88
TRINITY . . . . .	Hartford, Conn.	1823	131	20
TUFTS COLLEGE . . . . .	College Hill, Mass.	1852	834	91
UNIVERSITY OF CALIFORNIA . . . . .	Berkeley, Cal.	1868	1961	125
UNIVERSITY OF CHICAGO . . . . .	Chicago, Ill.	1890	2000	177
UNIVERSITY OF CITY OF NEW YORK . . . . .	New York City.	1831	190	28
UNIVERSITY OF DENVER . . . . .	University Park, Col.	1879	285	87
UNIVERSITY OF ILLINOIS . . . . .	Champaign, Ill.	1867	900	80
UNIVERSITY OF IOWA . . . . .	Iowa City, Iowa.	1847	1275	98
UNIVERSITY OF MICHIGAN . . . . .	Ann Arbor, Mich.	1837	3000	192
UNIVERSITY OF MINNESOTA . . . . .	Minneapolis, Minn.	1851	2404	175
UNIVERSITY OF MISSISSIPPI . . . . .	University, Miss.	1848	257	16
UNIVERSITY OF PENNSYLVANIA . . . . .	Philadelphia, Pa.	1740	2632	251
UNIVERSITY OF THE SOUTH . . . . .	Sewanee, Tenn.	1857	294	25
UNIVERSITY OF VIRGINIA . . . . .	Charlottesville, Va.	1819	562	47
UNIVERSITY OF WISCONSIN . . . . .	Madison, Wis.	1878	1456	126
VASSAR . . . . .	Poughkeepsie, N. Y.	1861	538	52
WASHINGTON AND LEE UNIVERSITIES . . . . .	Lexington, Va.	1749	220	18
WELLESLEY . . . . .	Wellesley, Mass.	1875	787	82
WESLEYAN . . . . .	Middletown, Conn.	1831	302	34
WESTERN MARYLAND COLLEGE . . . . .	Westminster, Md.	1868	335	17
WILLIAMS . . . . .	Williamstown, Mass.	1793	355	29
WORCESTER POLYTECHNIC INSTITUTE . . . . .	Worcester, Mass.	1865	200	28
WOOSTER UNIVERSITY . . . . .	Wooster, Ohio.	1866	425	21
YALE UNIVERSITY . . . . .	New Haven, Conn.	1701	2415	226



Leap Year.—The Reign of the Coed.





COURSE

COURSE I  
COURSE II  
COURSE III  
COURSE IV  
COURSE V  
COURSE VI  
COURSE VII  
COURSE VIII  
COURSE IX  
COURSE X  
COURSE XI  
COURSE XII  
COURSE XIII

CIVIL ENGINEERING  
MECHANICAL ENGINEERING  
MINING ENGINEERING  
ARCHITECTURE  
CHEMISTRY  
ELECTRICAL ENGINEERING  
BIOLOGY  
PHYSICS  
GENERAL STUDIES  
CHEMICAL ENGINEERING  
SANITARY ENGINEERING  
GEOLOGY  
NAVAL ARCHITECTURE





For residence addresses in suburban parts of Boston the following abbreviations are used :—

A.	.....	Allston.
B.	.....	Brighton.
C.	.....	Charlestown.
D.	.....	Dorchester.
E. B.	.....	East Boston.
J. P.	.....	Jamaica Plain.
M.	.....	Mattapan.
N.	.....	Neponset.
S. B.	.....	South Boston.
R.	.....	Roxbury.
Ros.	.....	Roslindale.
W. R.	.....	West Roxbury.

# REGISTER OF STUDENTS.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
ABBOT, BESSIE OWEN . . . . .	S.		56 Quincy St., Roxbury, Mass.
ABBOT, LEWIS BENJAMIN . . . . .	IV.	'99	Danvers, Mass.
ABEEL, DAVID GUSTAVUS . . . . .	I.	'99	Catskill, N. Y.
ADAMS, GEORGE WENDELL . . . . .	S.		Kingston, Mass.
ADAMS, JOHN HOWARD . . . . .	IV.	'99	351 Broadway, Pawtucket, R. I.
ADAMS, WALTER OWEN . . . . .	X.	'99	Annisquam, Mass.
ADDICKS, LAWRENCE . . . . .	VI.	'99	706 Spruce St., Philadelphia, Pa.
ALBEE, EDWARD EVERETT . . . . .	I.	'99	42 Chestnut St., Melrose, Mass.
ALDEN, JOHN TROTT . . . . .	II.	'97	547 Centre St., Newton, Mass.
ALEXANDER, DONALD NELSON . . . . .	IV.	'98	33 Falcon St., East Boston, Mass.
ALLAND, LEON . . . . .	I.	'98	8 Gaston St., Roxbury, Mass.
ALLEN, HENRY WALTER, Δ. Ψ. . . . .	X.	'97	Hyde Park, Mass.
ALLEN, JAMES WALTER . . . . .	V.	'99	Foster St., Newtonville, Mass.
ALLEN, JEROME RIPLEY, A.B. . . . .	IV.	'98	Greenfield, Mass.
ALLEN, LESLIE CHAPMAN, Σ. A. E. . . . .	S.		Acushnet, Mass.
ALLEN, MARK WEBB, Θ. Ξ. . . . .	S.		118 Miami Ave., Detroit, Mich.
ALLEN, WILLIAM HENRY, JR. . . . .	XIII.	'96	293 Commonwealth Ave., Boston.
ALLYN, ROBERT . . . . .	II.	'98	4 Front St., New London, Conn.
ALLYNE, SAMUEL HINKLEY . . . . .	S.		131 Union Av., So. Framingham.
AMES, BUTLER, Θ. Ξ. . . . .	II.	'96	333 Andover St., Lowell, Mass.
AMES, JOSEPH WILLIAM . . . . .	II.	'98	7 Gooch St., Melrose, Mass.
ANDERSON, ROBERT, Ph.B. . . . .	VI.	'97	6 The Ortig, Cincinnati, Ohio.
ANDERSON, ROBERT PETER . . . . .	II.	'99	Danbury, Conn.
ANDERSON, WILLIAM POPE, JR., Θ. Ξ. . . . .	III.	'96	75 Pike St., Cincinnati, Ohio.
ANDREW, WILLIAM McCORKLE . . . . .	S.		Linwood, Ohio.
ANTHONY, GEORGE R., Φ. B. E. . . . .	II.	'98	545 Main St., Waltham, Mass.
ARCHIBALD, WARREN MARTIN . . . . .	I.	'99	8 South St., Medford, Mass.
ARNOLD, WYMAN . . . . .	VI.	'98	Park Ave., West Springfield, Mass.
ASHLEY, HARRISON EVERETT . . . . .	X.	'99	947 Acushnet Ave., New Bedford.
ASHTON, GEORGE FRANCIS . . . . .	II.	'96	336 Essex St., Salem, Mass.
ATKINS, ERNEST CARLTON . . . . .	S.		136 Mitchell St., Providence, R. I.
ATKINS, GEORGE FRANKLIN . . . . .	VI.	'99	865 N. Meridian St., Indianapolis.
ATWOOD, THOMAS CLARK . . . . .	I.	'97	362 Cross St., Malden, Mass.
AYER, HAROLD OSGOOD . . . . .	V.	'99	Danville, Vt.
BABBITT, ALBERT LYMAN . . . . .	I.	'99	10 Morton St., Somerville, Mass.
BABCOCK, HENRY KIMBERLY, Θ. Ξ. . . . .	VI.	'99	Neenah, Wis.
BABSON, ROGER WARD . . . . .	I.	'98	8 Angel St., Gloucester, Mass.
BACHELDER, GRACE DARLING . . . . .	S.		New Hampton, N. H.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
BACON, LYMAN EDWARD . . . . .	I.	'98	State Farm, Bridgewater, Mass.
BAILEY, ERIC WALDORF . . . . .	III.	'99	83 Inman St., Cambridgeport.
BAILEY, ROBERT WILLIAM . . . . .	XIII.	'99	12 W. 22d St., New York City.
BAILEY, THOMAS WARD . . . . .	I.	'96	Kingston, Mass.
BAILEY, THOMAS WENDELL . . . . .	IV.	'99	7 Ashford St., Allston, Mass.
BAKER, PHILIP STONE . . . . .	V.	'98	1882 Wash'n St., San Francisco.
BAKENHUS, REUBEN EDWIN . . . . .	I.	'96	1412 Wellington Ave., Chicago, Ill.
BALDWIN, CHAS. FOWLER, JR., A. Δ. Φ.	VI.	'97	105 N. Gay St., Mt. Vernon, Ohio.
BALDWIN, EDWARD ARTHUR, Φ. B. E.	VI.	'96	308 Columbia St., D., Mass.
BALKAM, CLIFFORD MANN . . . . .	III.	'99	Randolph, Mass.
BALLOU, HENRY WELCOME . . . . .	I.	'97	63 Princeton Av., Provid'nce, R. I.
BANCROFT, JOSEPH, Θ. Ξ. . . . .	S.		Wilmington, Del.
BANCROFT, WILFRED, Δ. Ψ. . . . .	II.	'97	3310 Arch St., Philadelphia, Pa.
BARBER, JAMES SAXTON, X. Φ. . . . .	S.		Canton, Ohio.
BARKER, EDGAR HARRISON . . . . .	S.		175 Prospect St., Lawrence, Mass.
BARKER, ELLIOTT RENSSELAER . . . . .	V.	'98	7 Brooks Ave., Greendale, Mass.
BARKER, HARRINGTON . . . . .	II.	'98	283 Huron Ave., N. Cambridge.
BARKHOUSE, EDGAR LOUIS . . . . .	VI.	'97	1043 2d St., Louisville, Ky.
BARLOW, WILLIAM HARVEY, X. Φ. . . . .	V.	'97	Mahanoy City, Pa.
BARNES, WARREN HAMMOND . . . . .	I.	'97	9 Brinsmead St., Marlboro, Mass.
BARRON, CARLYLE NORRIS . . . . .	II.	'99	Tarrytown, N. Y.
BARROWS, BERNARD . . . . .	X.	'97	Reading, Mass.
BARRY, CHARLES GARDNER . . . . .	I.	'99	98 Hillside Ave., Melrose, Mass.
BATCHELDER, CHARLES EILDERMANN . . . . .	VI.	'96	930 Fourth St., South Boston.
BATES, DANIEL MOORE, JR., Δ. Ψ. . . . .	X.	'96	3 East 8th St., Wilmington, Del.
BAUMANN, EDGAR BUTLER . . . . .	S.		1838 Wellington St., Chicago, Ill.
BEAM, WALTER RAYMOND . . . . .	XIII.	'99	44 Woodbine St., Roxbury.
BEAMAN, DAVID WEBSTER . . . . .	VI.	'96	Durrell Ave., Cincinnati, Ohio.
BEERS, HERBERT PAGE, Φ. B. E. . . . .	IV.	'97	5464 Jefferson Ave., Chicago, Ill.
BELCHER, HENRY CLIFFORD . . . . .	II.	'98	Easton, Mass.
BELCHER, WALTER CUSHING . . . . .	VII.	'99	Holbrook, Mass.
BENDER, LOWRY DRAVO WILKINSON . . . . .	III.	'99	238 Main St., Pittsburgh, Pa.
BENEDICT, JULES BERNARD, Σ. A. E. . . . .	VI.	'99	640 East 60th St., Chicago, Ill.
BENNINK, CARROL AUGUSTUS . . . . .	IV.	'98	Whiton, Cal.
BENSON, HOWARD JONATHAN, PH.B. . . . .	S.		Akron, Ohio.
BENSON, NEWTON DAVIS . . . . .	S.		8 Dawson St., Providence, R. I.
BERGEN, FRANCIS PATRICK . . . . .	VI.	'98	23 John St., Hartford, Conn.
BERGSTROM, GEORGE EDWIN . . . . .	IV.	'98	Neenah, Wis.
BINGHAM, FRANCIS MUNROE . . . . .	IV.	'99	194 High St., Newburyport, Mass.
BINLEY, WILLIAM, JR. . . . .	XIII.	'97	14 Tremont St., Newburyp't, Mass.
BISHOP, FREDERICK SENDALL . . . . .	S.		347 Cross St., Malden, Mass.
BLACKMER, ARTHUR ELIOT . . . . .	S.		12 Warren Ave., Plymouth, Mass.
BLACKMER, WILLIAM DANIELS, X. Φ. . . . .	III.	'98	631 N. Cascade Ave., Col. Sp'gs.
BLAKE, FRANCIS MINOT, Δ. T. Δ. . . . .	S.		426 Marlboro St., Boston, Mass.
BLAKE, FRANCIS POLK, Φ. Δ. Θ. . . . .	III.	'96	247 Prytania St., New Orleans, La.
BLAKE, KENNETH MALLOW . . . . .	II.	'99	Newton, Mass.
BLANCHARD, ARTHUR ALPHONSO . . . . .	V.	'98	Newton Centre, Mass.
BLEECKER, JOHN STEARNS, Δ. Ψ. . . . .	II.	'98	Navy Yard, Charlestown, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
BLISS, EDWIN PACKARD . . . . .	S.		Newburyport, Mass.
BLISS, GEORGE HENRY . . . . .	S.		10 Allen St., Newburyport, Mass.
BLOOD, GEORGE WHITEFIELD . . . . .	IV.	'98	232 High St., Newburyport, Mass.
BLOOD, PERCY FORD . . . . .	I.	'97	Graniteville, Mass.
BOARDMAN, FRED CLEVELAND . . . . .	S.		Natick, Mass.
BOARDMAN, H. SHERBURNE, B. C. E.	S.		200 Hammond St., Bangor, Me.
BODWELL, HOWARD LAWRENCE . . . . .	II.	'98	W. Boxford, Mass.
BOECK, GEORGE HENRY, $\Phi$ . $\Delta$ . $\Theta$ . . . . .	S.		3706 Delmar Ave., St. Louis, Mo.
BOLAND, MARY A. . . . .	S.		117 W. Newton St., Boston, Mass.
BONNYCASTLE, WILLIAM ROBINSON . . . . .	S.		Louisville, Ky.
BOOTH, GEORGE HENRY . . . . .	S.		26 Garfield Pl., Po'keepsie, N. Y.
BORLAND, HUGH . . . . .	I.	'97	St. Johnsbury, Vt.
BONNS, WALTER WERDENFELD . . . . .	IV.	'99	538 Jefferson St., Milwaukee, Wis.
BOWEN, EDGAR CAMPBELL, JR. . . . .	II.	'97	352 Jefferson Ave., Brooklyn, N. Y.
BOWEN, RALPH ALBERT . . . . .	V.	'97	Adams, Mass.
BOWES, GEORGE SIDNEY . . . . .	II.	'96	673 E. Main St., Rochester, N. Y.
BOWIE, AUGUSTUS JESSE, A.B. . . . .	VI.	'96	1913 Clay St., San Francisco, Cal.
BOYD, JOHN . . . . .	V.	'97	72 Marshall St., No. Adams, Mass.
BOYLE, MARTIN . . . . .	V.	'98	Newburyport, Mass.
BRACKETT, EDWIN RAYMOND . . . . .	V.	'96	100 Sargent St., Newton, Mass.
BRADLEE, CHARLES WALTER . . . . .	IX.	'97	113 Beacon St., Boston, Mass.
BRADLEY, FRANCIS EDWIN . . . . .	S.		499 Broadway, So. Boston, Mass.
BRADLEY, WILLIAM DEWEY . . . . .	S.		Prospect Hill, Tacoma, Wash.
BRAGG, EDWARD MILTON . . . . .	XIII.	'96	239 Prospect St., Camb'port, Mass.
BRAGG, ERNEST ATHERTON . . . . .	S.		Braggville, Mass.
BRAINERD, EDWIN ALPHEUS . . . . .	I.	'97	39 Olney St., Dorchester, Mass.
BRAMHALL, CHARLES THOMAS . . . . .	II.	'97	139 Court St., Plymouth, Mass.
BREED, CHARLES BLANEY . . . . .	I.	'97	12 George St., Lynn, Mass.
BREED, GEORGE HORACE . . . . .	S.		1026 Fourth Ave., Louisville, Ky.
BREED, LEWIS BAZZONI . . . . .	VI.	'96	9 Portland St., Lynn, Mass.
BRENNEMAN, J. B., $\Sigma$ . A. E. . . . .	S.		Bethany, W. Virginia.
BREWER, ARTHUR FRANCIS . . . . .	VI.	'98	Fayville, Mass.
BREWSTER, WILLIAM . . . . .	II.	'98	11 Court St., Plymouth, Mass.
BRICKLEY, WILLIAM JOSEPH . . . . .	S.		68 Tremont St., Charlestown.
BROOKS, JOHN FLAVEL . . . . .	II.	'96	No. Hanover, Mass.
BROOKS, MILES ELIJAH . . . . .	I.	'98	19 Milford St., Boston, Mass.
BROWN, ARTHUR HARRISON . . . . .	II.	'99	Reading, Mass.
BROWN, CARDELLA DRAKE, $\Sigma$ . A. E. . . . .	VI.	'98	1470 Broad St., Hartford, Conn.
BROWN, CARROLL WILDER . . . . .	I.	'99	Rye Beach, N. H.
BROWN, CHARLES HOYT . . . . .	I.	'99	Wellsville, N. Y.
BROWN, DICKSON QUEEN, A.B., $\Sigma$ . X. . . . .	VI.	'97	Hotel Majestic, New York City.
BROWN, EDWARD PERCY . . . . .	III.	'97	Halifax, N. S.
BROWN, GEORGE WINSLOW, X. $\Phi$ . . . . .	V.	'99	839 Boylston St., Boston, Mass.
BROWN, HARRY ELMA . . . . .	S.		15 Vestry St., Haverhill, Mass.
BROWN, HARRY WEBSTER . . . . .	VI.	'96	9 Wash'ton St., Winchester, Mass.
BROWN, JAMES MONROE . . . . .	II.	'97	Mansfield, Ohio.
BROWN, WARREN DAY, A.B., A. $\Delta$ . $\Phi$ . . . . .	VI.	'97	103 E. 39th St., New York City.
BROWNE, HARRY PATRICK . . . . .	VI.	'96	511 Chenevert St., Huston, Texas.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
BRYAN, RICHARD RUSH . . . . .	S.		Titusville, Pa.
BUCHER, RUSSEL SAMUEL. Σ. A. E. . . . .	IV.	'96	Harrisburg, Va.
BUCK, HATTIE JOSEPHINE . . . . .	S.		60 Union St., Woburn, Mass.
BURCH, GUY PRENTICE . . . . .	I.	'99	381 W. 3d St., Dubuque, Iowa.
BURDICK, EDWIN PARK . . . . .	I.	'99	25 Congress St., Hartford, Conn.
BURDICK, HOWARD HENRY, Σ. A. E. . . . .	II.	'97	205 Sigourney St., Hartford, Conn.
BURGESS, GEORGE KIMBALL . . . . .	VIII.	'96	Newtonville, Mass.
BURGESS, PHILIP . . . . .	XI.	'99	Otis St., Newtonville, Mass.
BURNHAM, GEORGE, Δ. K. E. . . . .	IV.	'97	35 West St., Portland, Me.
BURNS, JAMES DENNIS, JR. . . . .	II.	'99	5 Allen St., Boston.
BURRILL, NATHAN CARTER . . . . .	S.		17 Winter St., Newburyport, Mass.
BUSBY, FRED EDWARD . . . . .	V.	'97	Adams, Mass.
BUSH, WALTER MEGGS, Σ. A. E. . . . .	II.	'97	414½ Clinton St., Brooklyn, N. Y.
BUTCHER, WILLIAM LARAMY . . . . .	I.	'98	197 Lake View Av., C'mb'ge, Mass.
BUTLER, FERDINAND ALMON . . . . .	VI.	'99	32 Hanwick St., Salem, Mass.
BUTLER, WALTER HAROLD . . . . .	II.	'99	212 Fir St., Akron, Ohio.
BUTLER, WINTHROP FESSENDEN . . . . .	V.	'98	79 Tudor St., Chelsea, Mass.
BUTTERWORTH, ELWELL ROBERT . . . . .	S.		15 Harvard Place, Som'ille, Mass.
BYAM, LE ROY HENRY . . . . .	I.	'98	337 Crescent St., Waltham, Mass.
CADE, MARION LOUISE . . . . .	V.	'98	14 Clinton St., Cambrid'p't, Mass.
CALDWELL, FREDERICK WILLIAM . . . . .	II.	'99	5 Crescent St., Lawrence, Mass.
CALLAN, JOHN GURNEY . . . . .	VI.	'96	23 Perkins St., Lynn, Mass.
CAMP, WALTER TRUMBULL, Θ. Ξ. . . . .	S.		124 Washington St., Norwich, Ct.
CAMPBELL, CHARLES FRANCIS F. . . . .	II.	'99	London, Eng.
CAMPBELL, HARRY ANDREW BACH . . . . .	XI.	'99	London, Eng.
CAMPBELL, PERCY ALPHONSO . . . . .	S.		Derry, N. H.
CANNON, LEWIS TELLE . . . . .	S.		Salt Lake City, Utah.
CANNON, WILLARD TELLE . . . . .	S.		Salt Lake City, Utah.
CAPEN, CARROLL ADAMS . . . . .	S.		Randolph, Mass.
CARMON, SYLVESTER QUAYLE . . . . .	III.	'99	Salt Lake City, Utah.
CANNON, WILLARD T. . . . .	II.	'99	Salt Lake City, Utah.
*CARLETON, MAX STEVENS . . . . .		'99	18 Elm St., Wakefield, Mass.
CARR, JOSEPH LEWIS . . . . .	S.		26 Watts St., Chelsea, Mass.
CARTY, JOHN EDWARD . . . . .	I.	'97	6 Kensington St., Roxbury, Mass.
CARY, LOUIS ALEXANDER . . . . .	S.		Medway, Mass.
CASE, HERBERT MONROE . . . . .	VI.	'99	109 Ann St., Hartford, Conn.
CASSIDY, DAVID DEMOREST . . . . .	S.		114 Market St., Amsterdam, N. Y.
CHAMBERLIN, HELEN . . . . .	IV.	'96	Wrentham, Mass.
CHAMBERLIN, H. W., Δ. T. Δ. . . . .	S.		Hudson, Ohio.
CHANDLER, EDNA MATILDA . . . . .	V.	'99	59 Beachglen St., Roxb'ry, Mass.
CHAPIN, EDWARD SAMUEL . . . . .	V.	'98	23 Parker St., Boston, Mass.
CHASE, IRA MASON, JR. . . . .	I.	'98	35 Fifth St., New Bedford, Mass.
CHEEVER, MARION . . . . .	S.		557 Boylston St., Boston, Mass.
CHENERY, WINTHROP . . . . .	IV.	'96	Belmont, Mass.
CHILDS, JAMES ERNEST . . . . .	IV.	'99	Cotuit, Mass.
CHITTENDEN, ALBERT . . . . .	S.		38 St. Botolph St., Boston, Mass.

\* Died December 12, 1895.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
CLAPP, MABEL DELANO . . . . .	S.		Hotel Vendome, Boston, Mass.
CLARE, ELENORA R. . . . .	S.		609 Massachusetts Ave., Boston.
CLARK, CHARLES DEVAN, A.B. . . . .	I.	'97	1301 Linden Ave., Baltimore, Md.
CLARK, GERTRUDE ROSALIN . . . . .	S.		40 Union Park, Boston, Mass.
CLARK, HENRY ARCHER . . . . .	II.	'97	207 Second St., Pittsfield, Mass.
CLARY, JOSEPH WARD, A. Y. . . . .	XIII.	'96	Milton, Mass.
CLAUSON, RUDOLPH JULIUS . . . . .	IV.	'99	624 W. 6th St., Davenport, Ohio.
CLEAVELAND, WALTER AVERY . . . . .	II.	'98	West Newton, Mass.
CLEAVES, EZRA EAMES . . . . .	S.		Rockport, Mass.
CLEMENT, HOPE . . . . .	S.		9 Massachusetts Ave., Boston.
CLIFFORD, PAUL . . . . .	II.	'98	507 Columbus Ave., Boston, Mass.
CLIFFORD, WILLIAM HENRY, JR., O. E. . . . .	S.		113 Vaughn St., Portland, Me.
CLUETT, ALBERT EDMUND, A.B., A. F. . . . .	VI.	'96	42 Second St., Troy, N. Y.
CLUFF, CLARENCE BROOKS . . . . .	V.	'99	13 Columbia Park, Haverhill.
COBB, HERBERT FRANKLIN . . . . .	S.		Newton Centre, Mass.
COBB, HERBERT LUTHER . . . . .	S.		Mansfield, Mass.
COFFIN, JOSEPH GEORGE . . . . .	VIII.	'98	28 Dartmouth St., Boston, Mass.
COLCORD, FRANK FOREST . . . . .	III.	'98	3 Weld Ave., Roxbury, Mass.
COLEMAN, EZRA ABBOTT . . . . .	VI.	'97	193 W. Newton St., Boston, Mass.
COLEY, JOHN LONSON . . . . .	II.	'96	Westport, Conn.
COLLINS, HOWARD BROWNING, S. A. E. . . . .	S.		Denver, Col.
COLLINS, JOHN ARTHUR, JR. . . . .	X.	'97	73 Cottage St., Fall River, Mass.
COLMAN, WILLARD HENRY . . . . .	II.	'96	812 S. 6th St., La Crosse, Wis.
CONANT, FRANCIS MELVIN . . . . .	X.	'96	75 Pleasant St., Watertown, Mass.
CONGDON, JOHN ELLIOTT . . . . .	II.	'99	812 Second St., Fall River, Mass.
CONKLIN, HERBERT KING . . . . .	IV.	'96	91 Summit St., Newark, N. J.
COOK, FRANK REMICK, A. Y. . . . .	S.		30 Bragg St., Detroit, Mich.
COOK, JOSEPH COCHRAN . . . . .	VIII.	'97	1 Codman Park, Roxbury, Mass.
COOLIDGE, WILLIAM DAVID . . . . .	VI.	'96	Hudson, Mass.
COOLIDGE, WINTHROP, A. K. E. . . . .	III.	'96	4752 Kimbark Ave., Chicago, Ill.
COOMBS, FRANK EUGENE . . . . .	IV.	'98	26 Maverick St., E. B., Mass.
COPP, GEORGE IRVING . . . . .	II.	'99	429 Chelsea St., East Boston.
CORBETT, CHARLES WALTER, JR. . . . .	VI.	'99	6 Rutland Sq., Boston.
CORNELL, WORTHINGTON . . . . .	VI.	'98	Wellington, Mass.
CORSE, WILLIAM MALCOLM . . . . .	V.	'99	13 Oakland St., Medford, Mass.
COTTER, WILLIAM EDWARD . . . . .	S.		18 Skehan St., Somerville, Mass.
COTTLE, GEORGE THURSTON . . . . .	V.	'98	13 Copley St., Roxbury.
COWLES, LUZERNE SIMEON, S. A. E. . . . .	I.	'97	65 Forest St., Hartford, Conn.
CRAMER, EDWIN CLAASSEN, A. Y. . . . .	IV.	'96	285 Lyon St., Milwaukee, Wis.
CRANE, CHARLES FRANCIS . . . . .	I.	'99	13 Charles St., Taunton, Mass.
CRANE, EVA HAYES . . . . .	IV.	'98	56 Trowbridge St., Camb'ge, Mass.
CRANE, HENRY M., S.B., A. F. . . . .	VI.	'96	500 Madison Ave., New York.
CRANE, STEPHEN DOW, S. A. E. . . . .	VI.	'96	55 Burroughs St., Jamaica Plain.
CRANE, THOMPSON THAXTER . . . . .	S.		159 Washington St., Quincy, Mass.
CRAVEN, GEORGE WARREN . . . . .	VI.	'97	Bozeman, Mont.
CROCKER, ALLEN SWIFT . . . . .	II.	'97	226 Kempton St., N. Bed'd, Mass.
CROCKER, CARL IRA . . . . .	I.	'96	102 Park St., Portland, Me.
CROSBY, RALPH WORTHINGTON . . . . .	XIII.	'96	Osterville, Mass.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
CROWELL, LUTHER ALBERTO . . . .	VI.	'98	West Dennis, Mass.
CUDWORTH, EUGENE PEARSON . . . .	VI.	'98	308 Saratoga St., East Boston.
CUMMINGS, HENRY, JR. . . . .	IV.	'96	3 Union Park, Boston.
CUMMINGS, ROBERT MILLER . . . .	XIII.	'97	1 Linden St., South Boston.
CUNNINGHAM, MARGARET . . . . .	S.		Brookline, Mass.
CURRIER, CHARLES RICHARDSON . . . .	II.	'97	285 Lamertine St., Jamaica Plain.
CURRIER, HARVEY LEON . . . . .	II.	'98	Swampscott, Mass.
CURRY, WILLIAM . . . . .	VI.	'98	168 Homeward Ave., Pittsburgh.
CURTIS, ARTHUR VINTON . . . . .	XIII.	'97	49 Elm St., Quincy, Mass.
CURTIS, EVERETT NICHOLS . . . . .	IX.	'98	Camden, Me.
CURTIS, IDA MAYNARD, B.S. . . . .	S.		18 St. Stephen St., Boston.
CUSHING, ADELAIDE OLGA . . . . .	S.		168 Newbury St., Boston.
CUSHING, HARVEY MORSE . . . . .	VI.	'99	186 Maple Ave., Ottumwa, Ia.
CUSHING, JOSEPH . . . . .	S.		27 Hope St., Fitchburg, Mass.
CUTLER, JANE RUTH, A.B. . . . .	S.		70 Pearl St., Somerville, Mass.
CUTLER, WILLIAM HENRY, A. K. E. . .	IV.	'97	4801 Kenwood Ave., Chicago, Ill.
DAKIN, GEORGE WATERS . . . . .	III.	'98	44 Evergreen St., Roxbury, Mass.
DALY, ROBERT EMMETT . . . . .	V.	'98	6 W. Newton St. Ext., Boston.
DAMON, HARRY SUMNER . . . . .	I.	'99	Bryantville, Mass.
DANER, WILLIAM SUMNER BARTON . . .	IV.	'98	46 Cedar St., Worcester, Mass.
DANFORTH, RAYMOND HUGHES . . . .	II.	'98	4 Arabella St., Salem, Mass.
DANIELL, JERE ROGERS . . . . .	XIII.	'97	Franklin, N. H.
DANIELS, NATHAN HAGAR, JR. . . .	VI.	'96	13 Joy St., Boston, Mass.
DAVIS, ALVAN SAMSON . . . . .	III.	'97	27 Albion St., Hyde Park, Mass.
DAVIS, ARTHUR TRUE . . . . .	II.	'98	639 Congress St., Portland, Me.
DAVIS, FRANKLIN HAYES, S. A. E. . .	III.	'96	Wayne, Penn.
DAVIS, HUNTLY WARD, A. Y. . . . .	S.		709 Pine Ave., Montreal, Q.
DAVIS, MELVILLE ROBERT . . . . .	XIII.	'99	639 Congress St., Portland, Me.
DAVIS, ROBERT ALLEN . . . . .	VI.	'96	Yarmouthport, Mass.
DAVISON, GEORGE RUPERT . . . . .	VI.	'98	33 M St., S. Boston, Mass.
DAWES, FRED BRADLEY . . . . .	S.	'98	Hudson, Mass.
DEAVITT, HENRY MCINTYRE, B.S. . .	V.	'97	Montpelier, Vt.
DE AZEVEDO LUIZ MARINHO . . . . .	S.		Sao Paulo, Brazil.
DEERING, CHARLES HARMON . . . . .	V.	'99	Saco, Me.
DEGOLYER, ROBERT SEELY, F. B. E. .	IV.	'98	1819 Hinman Ave., Evanston, Ill.
DE GOLYER, LAWRENCE N., PH.B. . .	S.		Evanston, Ill.
DELANO, MORRIS FRANCIS . . . . .	I.	'98	5 Walnut St., Somerville, Mass.
DELONG, HAROLD WILLIAMS . . . . .	XIII.	'96	47 High St., Medford, Mass.
DEMERITT, LEONARD MORSE . . . . .	II.	'97	52 N. Main St., Natick, Mass.
DENISON, EDWARD ELIAS, S.B., F. B. E.	S.		66 Deering St., Portland, Me.
DENISON, ROBERT LINCOLN, F. B. E.	S.		66 Deering St., Portland, Me.
DE WOLF, ARTHUR SIMON . . . . .	S.		Melrose Highlands, Mass.
DIAZ JOSÉ YGNACIO, B.S. . . . .	S.		Caraccas, Venezuela.
DICKINSON, LEONARD DAVID P. . . .	VI.		531 Wilson St., Manchester, N. H.
DIXON, CHARLES SUMNER . . . . .	S.		1608 R St., N. W. Wash'ton, D. C.
DIXON, JOHN BROWN . . . . .	V.	'98	1608 R St., N. W. Wash'ton, D. C.
DODD, JOHN WELLINGTON . . . . .	VI.	'98	58 Townsend St., Roxbury, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
DODGE, EDWIN SHERRILL . . . . .	IV.	'97	Newburyport, Mass.
DODGE, IRVING BIGELOW . . . . .	II.	'98	Grafton, Mass.
DODGE, WINTHROP RUFUS . . . . .	S.		70 Revere St., Boston, Mass.
DOLIBER, FRANKLIN WHITNEY, O. E. . . . .	S.		Goddard Ave., Brookline, Mass.
DONOVAN, JOHN AUGUSTUS . . . . .	S.		256 Branch St., Lowell, Mass.
DORRANCE, WILLIAM TULLY . . . . .	I.	'97	98 Waterman St., Providence, R. I.
DOTEN, ALFRED RUSSELL . . . . .	II.	'97	8 Mayflower St., Plymouth, Mass.
DOUGHERTY, PROCTER LAMBERT . . . . .	VI.	'97	417 Broadway St., Camb'ge, Mass.
DOWD, ELIZABETH GERTRUDE . . . . .	S.		12 Madison St., Roxbury, Mass.
DOWNES, ALFRED KIMBALL, A. Y. . . . .	S.		5 Wash'ton Sq., Gloucester, Mass.
DOWNES, JOHN EDWARD . . . . .	II.	'99	Petersboro, N. H.
DOZIER, HENRIETTA CUTTENS . . . . .	IV.	'99	834 Hunt'ton Ave., Boston, Mass.
DRAKE, CHARLES SUMNER . . . . .	S.		379 Hoffman Ave., Chicago, Ill.
DRAKE, CHESTER FRANCIS, S. A. E. . . . .	S.		42 Monum't St., W. Medford, Mass.
DREW, ALBERT THOMPSON . . . . .	S.		86 Federal St., Newburyport, Mass.
DRISCOLL, JAMES MICHAEL . . . . .	I.	'96	9 Kent St., Brookline, Mass.
DRISCOLL, JOSEPH . . . . .	I.	'96	11 Kent St., Brookline, Mass.
DRISCOLL, TIMOTHY JOSEPH . . . . .	VI.	'97	7 Hamburg St., Boston, Mass.
DRYER, JAMES EYRUS . . . . .	VI.	'99	396 East Ave., Rochester, N. Y.
DRUM, ALPHONSUS LIGOURI . . . . .	VI.	'96	40 S. Washington St., New York.
DUNN, WASHINGTON CHARLES, A. Y. . . . .	S.		Lock Haven, Pa.
DU PONT, IRÉNÉE, F. B. E. . . . .	X.	'97	Wilmington, Del.
DWYER, HERBERT FRANCIS . . . . .	X.	'99	318 Somerville Ave., Somerville.
DWYER, JOHN RICHARD . . . . .	IV.	'97	4378 Wash'ton Av., St. Louis, Mo.
DYER, HARRY WING, S. A. E. . . . .	S.		38 Cushman St., Portland, Me.
EAMES, CHARLES HOLMES . . . . .	VI.	'97	Andover, Mass.
EAMES, EDWARD ASHLEY, X. F. . . . .	VI.	'97	59 Fargo Ave., Buffalo, N. Y.
EATON, HENRY CHARLES . . . . .	II.	'99	50 Taylor St., Waltham, Mass.
EATON, WILLIAM WISE, A. Y. . . . .	II.	'97	Bridgewater, Mass.
EDGERLEY, DANIEL WILBERT . . . . .	V.	'98	86 Franklin St., Camb'port, Mass.
EDMANDS, FREDERICK LINCOLN . . . . .	II.	'97	10 Broad St., Newburyport, Mass.
*ELDER, EDWIN AVERY . . . . .	S.		West Newton, Mass.
ELLERY, JAMES BENJAMIN . . . . .	V.	'99	Annisquam, Mass.
ELLIOT, RICHARD OLIVER . . . . .	S.		Thomaston, Me.
ELLIOTT, SOPHRONIA MARIA . . . . .	S.		7 High St., Somerville, Mass.
ELLSWORTH, JULIA . . . . .	S.		Braintree, Mass.
ELSON, ARTHUR, A.B. . . . .	X.	'97	Roxbury, Mass.
EMERSON, FRANK . . . . .	I.	'99	101 Blossom St., Lowell, Mass.
EMERSON, LOUVILLE EUGENE, S. A. E. . . . .	VI.	'97	73 Mellen St., Portland, Me.
EMERY, EARLE CALDWELL . . . . .	S.		80 Congress St., Bradford, Pa.
EMERY, LEWIS . . . . .	VI.	'99	80 Congress St., Bradford, Pa.
EVERETT, FRANK WARREN, F. B. E. . . . .	VI.	'97	Highland Park, Ill.
EVERETT, MARGARET M. . . . .	S.		Pottsdam, N. Y.
EWEN, MALCOLM FAULKNER, F. B. E. . . . .	IV.	'97	194 Huntington Av., Boston, Mass.
EWING, CHARLES . . . . .	S.		The Cairo, Washington, D. C.
EWING, MARY STEELE, A.M., Ph.G. . . . .	S.		City Hospital, Boston, Mass.

\* Died December 5, 1895.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
EWING, WILLIAM CLINTON . . . . .	VI.	'97	Danvers, Mass.
EYNON, JOHN STUART . . . . .	VI.	'96	112 Washington St., Utica, N. Y.
FAIRBANKS, WILLIAM KENDALL . . . . .	VI.	'97	213 Newbury St., Boston, Mass.
FARNHAM, HORACE PORTER . . . . .	I.	'99	21 N. Central St., Peabody, Mass.
FARNUM, DWIGHT . . . . .	VI.	'99	24 Elm St., Brookline, Mass.
FAUGHT, RAY CLINTON . . . . .	S.		Centre Sidney, Me.
FAY, WINTHROP LINCOLN . . . . .	II.	'99	Dexter, Me.
FAXON, WILLIAM ALECK, X. Φ. . . . .	V.	'97	170 Linwood Ave., Buffalo, N. Y.
FEARING, ALBERT JUSTIN . . . . .	I.	'98	So. Weymouth, Mass.
FEELEY, FRANK GOODRICH . . . . .	II.	'97	162 Summer St., Pittsfield, Mass.
FERGUSEN, FINLEY F., A.B., B.S., Σ. X.	IV.	'98	166 Freemason St., Norfolk, Va.
FERGUSON, JOHN BERTON . . . . .	I.	'99	16 Ferguson Pl., Woburn, Mass.
FERGUSON, ROBERT ARTHUR . . . . .	II.	'99	489 Broadway, S. B.
FERRIS, ROBERT MURRAY, JR. . . . .	VI.	'97	Poughkeepsie, N. Y.
FESSENDEN, ALFRED NEWTON . . . . .	S.		Townsend, Mass.
FIELD, DAVID DUDLEY, O. E. . . . .	II.	'97	Stockbridge, Mass.
FIELD, FREDERICK CROMWELL, Φ. B. E.	S.		158 Hicks St., Brooklyn, N. Y.
FIELD, FREDERICK ELBERT . . . . .	XI.	'96	Greenfield, Mass.
FIFIELD, FREDERICK ALONZO . . . . .	II.	'99	Methuen, Mass.
FISHER, ELIZABETH FLORETTE . . . . .	XII.	'96	142 Trenton St., E. B.
FISHER, HOWELL . . . . .	X.	'98	105 Howland St., Roxbury, Mass.
FISK, HARRY GEORGE, X. Φ. . . . .	IX.	'96	730 State St., Springfield, Mass.
FISKE, GEORGE ISAAC, Φ. B. E. . . . .	VI.	'97	50 Elmore St., Roxbury, Mass.
FITTS, ADA MARY . . . . .	S.		691 Shawmut Ave., Boston, Mass.
FLEET, JOHN WALLACE . . . . .	I.	'98	85 Park St., Fall River, Mass.
FLEISHER, SIMON . . . . .	VI.	'98	24 Norman St., Boston, Mass.
FLEMING, CHARLES EDWIN . . . . .	II.	'98	155 E. Main St., Spartanb'g, S. C.
FLEMMINGS, JOHN ALBERT . . . . .	VI.	'99	333 High St., Lowell, Mass.
FOGERTY, EMORY HARTWELL . . . . .	S.		51 John St., Worcester, Mass.
FOOTE, ARTHUR BURLING . . . . .	I.	'99	Grass Valley, Cal.
FORREST, MABEL FLORA . . . . .	VII.	'98	227 Westford St., Lowell, Mass.
FORSTER, FREDERICK EVERARD . . . . .	X.	'96	438 L'xing'n Av., New York City.
FOSTER, MARY LOUISE, A.B. . . . .	S.		63 Maple St., W. Roxbury, Mass.
FOWLE, FRANK FULLER . . . . .	VI.	'99	557 Columbus Av., Boston, Mass.
FOWNES, WILLIAM CLARK . . . . .	X.	'98	Pennsylvania Av., Pittsburgh, Pa.
FOX, WILLIAM HENRY, Σ. X. . . . .	S.		420 E. Merrimack St., Lowell.
FRAME, JAMES THOMAS . . . . .	VI.	'99	Dana Ave., Hyde Park, Mass.
FRANK, MORTIMER . . . . .	I.	'97	233 Hamden Ct., Chicago, Ill.
FRANKLIN, ARTHUR IRA . . . . .	V.	'97	115 Bellevue St., Newton, Mass.
FRASER, MATILA ALEXANDRA . . . . .	IV.	'99	Cleveland, Ohio.
FRAZER, ROBERT, JR., Δ. Ψ. . . . .	IV.	'99	Germantown, Pa.
FRAZIER, CHARLES WELLINGTON . . . . .	VII.	'97	50 Mall St., Lynn, Mass.
FRENCH, ABRAHAM . . . . .	S.		Dedham, Mass.
FRENCH, PHILIP ROLAND . . . . .	V.	'99	36 Magnolia St., Roxbury, Mass.
FRESH, GEORGE, JR. . . . .	IV.	'96	3233 Bailey Ave., St. Louis, Mo.
FULLER, FREDERIC WILLIAM, Φ. B. E.	VI.	'96	152 N. Main St., Springfield, Mass.
FULLER, GEORGE ARTHUR, Φ. B. E. . . . .	VI.	'97	152 N. Main St., Springfield, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
FULLER, MYRON LESLIE . . . . .	XII.	'96	157 Spring St., Brockton, Mass.
FULLER, ROBERT LESURE, F. B. E. . . . .	IV.	'96	452 Main St., Worcester, Mass.
FURBISH, FREDERIC, B.S. . . . .	S.		Iowa City, Iowa.
FYFE, JAMES L. . . . .	S.		417 Home Ave., Oak Park, Ill.
GAGE, DU RELLE, F. B. E. . . . .	S.		The Clesea, New York City.
GAGE, STEVEN DE MERITTE . . . . .	V.	'96	227 Main St., Bradford, Mass.
GAILLARD, LAWRENCE LEE, A. T. O. . . . .	VI.	'97	45 East Bay, Charleston, S. C.
GALE, GARDNER MANNING . . . . .	IV.	'99	Olean, N. Y.
GALLISON, ERNEST AUGUSTUS . . . . .	II.	'98	139 Division St., Chelsea, Mass.
GARDINER, WILLIAM HOWARD, JR. . . . .	S.		12 Otis Pl., Boston, Mass.
GARDNER, HENRY . . . . .	II.	'96	24 Chestnut St., Salem, Mass.
GARDNER, LESTER DURAND . . . . .	S.		Detroit, Mich.
GARFIELD, ABRAM, A.B. . . . .	IV.	'96	Mentor, Ohio.
GATES, HATTIE LAWRENCE . . . . .	S.		136 W. Concord St., Boston, Mass.
GAY, HAROLD WILLIS . . . . .	S.		Norwood, Mass.
GEHRING, EDWIN WAGNER . . . . .	I.	'98	Bethel, Me.
GERBER, ELMER LOUIS . . . . .	S.		1632 E. Fifth St., Dayton, Ohio.
GIFFORD, RICHARD TRACY . . . . .	VI.	'99	20 Pearl St., Fitchburg, Mass.
GILBERT, FREDERICK CHESTER . . . . .	V.	'97	23 Lawrence St., Camb'port, Mass.
GILL, JAMES SEEL . . . . .	II.	'99	Ludlow, Vt.
GILLESPIE, AMOS . . . . .	V.	'96	Colora, Md.
GILLSON, CHARLES BURTON . . . . .	X.	'99	1554 Oak Ave., Evanston, Ill.
GILMAN, JOHN EDWARD, JR., A.B. . . . .	I.	'97	17 Holborn St., Roxbury, Mass.
GILMAN, WALTER EASTMAN . . . . .	I.	'99	202 S. Centre St., Marsh'lt'wn, Ia.
GILMORE, JONATHAN MONROE, B.L. . . . .	VI.	'97	Pasadena, Cal.
GILPIN, RUSSELL . . . . .	VI.	'99	1304 Broome St., Wilmington, Del.
GLADDING, JOHN THOMAS FISKE . . . . .	S.		573 Potters Ave., Providence, R. I.
GLEASON, GEORGE HATHAWAY . . . . .	II.	'99	54 Bowdoin St., Dorchester, Mass.
GLEASON, WALTER AUSTIN . . . . .	I.	'97	44 Wyoming Ave., Malden, Mass.
GLOVER, GEORGE CURTIS . . . . .	S.		Melrose Highlands, Mass.
GODBOLD, CHARLES HENRY, JR. . . . .	XIII.	'98	150 Trenton St., E. Boston, Mass.
GODDARD, JOHN NEWTON . . . . .	V.	'98	205 E. 9th St., Plainfield, N. J.
GODLEY, GEORGE MCM., A. K. E. . . . .	VI.	'98	Sherman Sq. Hotel, New York.
GOLDTHWAITE, HARRY WALES . . . . .	I.	'99	19 Bigelow St., Brighton, Mass.
GONZALEZ, ALBERTO PRIMITIVO . . . . .	S.		Monterey, Mexico.
GONZALEZ, RAFAEL SECUNDINO, B.A. . . . .	S.		Cienfuegos, Cuba.
GOODELL, EVERETT EDWIN . . . . .	S.		Westboro, Mass.
GOODHUE, LEONARD HARRINGTON . . . . .	V.	'96	6 Chestnut St., Salem, Mass.
GOODNOW, WALLACE FIELD . . . . .	S.		318 Harv'd St., Camb'dgep't, Mass.
GOODRICH, ARTHUR LINSLEY . . . . .	X.	'98	Stockbridge, Mass.
GOODSPEED, GEORGE MARSTON . . . . .	S.		Hyde Park, Mass.
GORDON, EDWARD BERTELLE, JR. . . . .	II.	'96	174 Lewis St., Lynn, Mass.
GOWEN, SUMNER . . . . .	I.	'97	Wakefield, Mass.
GRAHAM, AMADEUS WILLIAM . . . . .	XII.	'96	87 Appleton St., Boston, Mass.
GRAHAM, HENRY BROWN, JR., S. X. . . . .	III.	'99	91 Bolton Ave., Cleveland, Ohio.
GRAY, ALBERT WEBSTER . . . . .	I.	'98	38 Stanley St., Dorchester, Mass.
GRAY, ALICE MAUD . . . . .	S.		39 Barr'gt'n St., Dorch'ster, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
GRAY, DAVID EDGERTON, $\Phi$ . B. E.	VI.	'99	Highland Park, Ill.
GRAY, OWEN HERRICK	VI.	'97	3 Farrington Pl., St. Paul, Minn.
GREEN, ANDREW HUGH, A.B.	I.	'96	403 LaSalle Ave., Chicago, Ill.
GREEN, HERBERT CHESTER	VI.	'99	Newcastle, Pa.
GREENLEAF, JOHN CAMERON, $\Delta$ . $\Psi$ .	S.		Lenox, Mass.
GREENLAW, CHARLES RUTHERFORD	II.	'99	19 Atherton St., Roxbury, Mass.
GREENWOOD, GRACE	S.		1524 Cambridge St., Cambridge.
GREER, HERBERT CHESTER	III.	'99	New Castle, Pa.
GROSVENOR, ASA WATERS, $\Psi$ . Y.	II.	'98	Amherst, Mass.
GROVER, FREDERICK	VIII.	'99	16 Groove St., Lynn, Mass.
GROVER, NATHAN CLIFFORD, B.C.E.	S.		Arona, Me.
GRUSH, HENRY GRANVILLE	VI.	'96	Everton St., Dorchester, Mass.
GUPTILL, FRANK EDWARD	VI.	'96	Winter Harbor, Me.
GURNEY, EWING RUDOLPH	XIII.	'99	40 Lee St., Cambridge, Mass.
GUTTRIDGE, JAMES ADDISON	I.	'97	Garden St., Roslindale, Mass.
HALE, BENJAMIN, JR.	S.		Newburyport, Mass.
HALL, CHARLES HENRY, B.A.	S.		Montague St., Brooklyn, N. Y.
HALL, GAYLORD CROSSETTE	VI.	'96	Irving Place, Cambridge, Mass.
HALL, ROBERT GEORGE	V.	'97	Pittsburg, Pa.
HALL, RUSSELL, O. E.	V.	'99	Bradford, Mass.
HALL, WILLIAM MONTAGUE, $\Phi$ . B. E.	XIII.	'98	3 Waverly Ave., Newton, Mass.
HALLARAN, JOHN SANFORD	I.	'96	1203 Madison St., Toledo, Ohio.
HAM, CLARA ELEANOR	VII.	'99	North Middleboro, Mass.
HAMBURGER, CHARLES MEIER	X.	'99	22 Dracut St., Dorchester, Mass.
HAMILTON, ALFRED STAIR, $\Delta$ . T. $\Delta$ .	S.		249 Lark St., Albany, N. Y.
HAMILTON, ARTHUR LITTLE, O. E.	II.	'99	Fond du Lac, Wis.
HAMMOND, CHARLES LINCOLN	S.		Atlantic, Mass.
HAMMOND, EDWARD HOSMER, $\Phi$ . B. E.	V.	'99	Newton Centre, Mass.
HAMMOND, EDWIN WALDEN	I.	'99	Mt. Vernon, N. Y.
HANNA, BENJAMIN SARGENT	I.	'99	Harlem Ave., Baltimore, Md.
HAPGOOD, CHARLES WARREN, $\Delta$ . Y.	V.	'96	498 Broadway, Everett, Mass.
HAPGOOD, LYMAN PROCTOR	I.	'99	Athol Centre, Mass.
HARAHAN, JAMES THOMAS, JR., $\Sigma$ . X.	II.	'99	135 51st St., Chicago, Ill.
HARDY, ROBERT SAMUEL, $\Delta$ . K. E.	VI.	'96	North High St., Bangor, Me.
HARLOW, FRANK LORIN	S.		Washington C. H., Ohio.
HARKNESS, GEORGE EDWARD	I.	'96	Walpole, Mass.
HARRINGTON, JOSEPH	II.	'96	Xenia, Ohio.
HARRIS, RALPH	II.	'98	620 Miami St., Leavenworth, Kan.
HARTWELL, HIRAM BRITTON	II.	'96	57 Palfrey St., Watertown, Mass.
HARWOOD, CHARLES FRANK	II.	'99	Warren, Mass.
HASBROUCK, ROSS	III.	'99	Poughkeepsie, N. Y.
HASKELL, GEORGE OWENS	S.		88 State St., Savannah, Ga.
HASKINS, CHARLES NELSON	VIII.	'97	Chestnut St., New Bedford, Mass.
HASTE, JAMES HENRY	V.	'96	463 Broadway, Lawrence, Mass.
HATCH, ISRAEL, JR.	X.	'97	Hanover, Mass.
HATHAWAY, HAROLD W.	S.		107 Mass. Ave. Arlington, Mass.
HAWES, ALEXANDER G. JR., $\Sigma$ . A. E.	S.		Mills Building, San Francisco, Cal.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
HAWLEY, HARVEY F. . . . .	I.	'96	Baldwinsville, N. Y.
HAWKINS, EDGAR MARVIN . . . .	II.	'97	Maple St., West Roxbury, Mass.
HAYDEN, FRED LAWRENCE . . . .	X.	'93	28 Holt St., Fitchburg, Mass.
HAYDEN, JOSEPH ALONZO . . . .	S.		East Hartford, Conn.
HAYDEN, LEWIS ANDREWS, S. X. . .	S.		1637 Sherman Ave., Denver, Col.
HAYWARD, HAROLD WASHBURN . . .	S.		79 Milton Ave., Hyde Park, Mass.
HAYWARD, NATHAN, A.B. . . . .	VI.	'97	85 Brattle St., Cambridge, Mass.
HAYWARD, ROYAL HOBART . . . .	VI.	'97	18 Holborn St., Roxbury, Mass.
HAZELTINE, BENJAMIN, JR. . . . .	VI.	'99	Belfast, Me.
HAZELTINE, JAMES EZRA . . . . .	VI.	'98	Warren, Pa.
HAZELTON, ISAAC BREWSTER, A. K. E.	S.		Wellesley Hills, Mass.
HEALEY, BENJAMIN FRANCIS . . . .	VI.	'97	602 Tremont St., Boston, Mass.
HEALEY, FREDERICK ELLIOTT . . . .	II.	'97	East Providence, R. I.
HEARNE, WILLIAM LOWDER . . . .	IX.	'99	Wheeling, W. Va.
HEATHMAN, FRANK BOLTIN . . . .	S.		Dayton, Ohio.
HECKLE, GEORGE ROGERS . . . . .	I.	'99	97 Moreland St., Roxbury, Mass.
HEDGE, HENRY ROGERS . . . . .	IX.	'96	32 Court St., Plymouth, Mass.
HEDGE, WILLIAM RUSSELL . . . .	IX.	'96	32 Court St., Plymouth, Mass.
HERRMANN, FREDERICK MORSE . . .	II.	'96	39 Union Park, Boston, Mass.
HEGHINIAN, GARABED G., A.B. . .	I.	'99	Marash, Turkey.
HEISLER, EDWARD RUDOLPH, S. X. .	S.		1317 Prairie Ave., Chicago, Ill.
HEMMINGS, FREDERICK JOHN . . . .	V.	'97	9 Sussex St., Boston, Mass.
HENDERSON, JAMES BUIST . . . . .	II.	'96	Ludlow, Mass.
HENRY, RALPH COOLIDGE . . . . .	IV.	'96	11 Garfield St., Watertown, Mass.
HERBERT, EDWARD . . . . .	VI.	'99	Broad Run, Virginia.
HERBST, JAMES BROWN . . . . .	VI.	'97	513 E. 14th St., Kansas City, Mo.
HERING, OSWALD C., A. K. E. . . .	IV.	'97	70 Trinity Terrace, Boston, Mass.
HERMAN, BERNARD . . . . .	I.	'99	738 7th St., N. W. Wash'n, D. C.
HERMANN, FRANK EDWARD . . . . .	I.	'99	Denver, Col.
HERN, JOSEPH LOUIS . . . . .	VI.	'99	34 Sidney St., Dorchester, Mass.
HEWETT, JOSEPH . . . . .	VIII.	'96	32 Allen St., Brockton, Mass.
HEWINS, LYMAN FOSTER . . . . .	XIII.	'98	353 Wash'n St., Dorchester, Mass.
HIGBEE, FLORENCE JOHNSON, PH.B. .	S.		College Hill, Mass.
HIGH, CARL STOUT . . . . .	VI.	'98	Arlington, Kansas.
HILL, HENRY ARTHUR . . . . .	S.		Southbridge, Mass.
HILL, WILLIAM GILBERT, JR. . . .	S.		84 Converse Ave., Malden, Mass.
HILLER, GEORGE FOLSOM . . . . .	II.	'98	Metro'tan Av., Hyde Park, Mass.
HINCKLEY, BENJAMIN STEARNS . . .	II.	'98	Woburn, Mass.
HINCKLEY, EVERETT HALE . . . . .	VI.	'99	Hyannis, Mass.
HINMAN, DEAN . . . . .	II.	'99	158 Williams St., Taunton, Mass.
HINMAN, WALTER HIBBARD . . . .	X.	'99	29 Albano St., Roslindale, Mass.
HITCHCOCK, ALBERT WHITE . . . .	S.		Amherst, Mass.
HOIT, HENRY FORD, A. K. E. . . .	S.		3916 Lake Avenue, Chicago, Ill.
HOLABIRD, ROBERT GRANT, S. X. . .	IV.	'99	1500 Oak Ave., Evanston, Ill.
HOLLIDAY, ALEXANDER R., X. Φ. . .	I.	'99	601 N. Meridan St., Indianapolis.
HOLLIS, WALTER MUNROE . . . . .	VI.	'96	73 Newhall St., Lynn, Mass.
HOLMES, EDWARD LOWTHER . . . .	S.		Alameda, Cal.
HOLMES, GEORGE INNIS . . . . .	V.	'99	Bradford, Mass.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
HOLMES, MERTON AUSTIN . . . . .	II.	'99	Newton Highlands, Mass.
HOOKE, STANLEY AGAR . . . . .	II.	'98	Reading Road, Avondale, Ohio.
HOPKINS, ARTHUR THOMAS . . . . .	XI.	'97	9 Flint Ave., Somerville, Mass.
HOPKINS, HEBER AUGUSTUS . . . . .	II.	'98	276 Pearl St., Camb'port, Mass.
HOPKINS, JAMES CLEVELAND . . . . .	IV.	'96	Park Pl., Jamaica Plain, Mass.
HORGAN, JOHN DENNIS . . . . .	S.		1 Leeds St., Dorchester, Mass.
HORTON, FRANK NELSON . . . . .	XIII.	'99	17 Bodwell St., Dorchester, Mass.
HORTON, RALPH TUCKER . . . . .	I.	'98	Foxboro, Mass.
HOSFORD, ROGER FULLER . . . . .	V.	'97	19 Burlington Ave., Boston, Mass.
HOSMER, GEORGE LEONARD . . . . .	I.	'97	350 Salem St., Woburn, Mass.
HOUGH, ELIZABETH E. . . . .	S.		Chestnut Hill Av., Brighton, Mass.
HOUSE, JOHN HENRY . . . . .	IV.	'98	Salonica, Turkey.
HOWARD, ARTHUR FISKE, B.S. . . . .	VII.	'98	56 Middle St., Portsmouth, N. H.
HOWARD ETHAN HENRY, A. Y. . . . .	VI.	'97	141 W. Chippewa St., Buffalo.
HOWARD, FRANK ALLEN . . . . .	I.	'96	630 Belmont St., Brockton, Mass.
HOWARD, HAROLD EMMONS . . . . .	II.	'99	Westfield, Mass.
HOWARD, SHELDON LEAVITT, F. B. E. . . . .	S.		46 Somerset Ave., Taunton, Mass.
HOWE, JOSEPH MILTON . . . . .	I.	'96	918 Austen St., Houston, Texas.
HOWELL, HELEN PHILLIPS . . . . .	S.		Southold, N. Y.
HOWLAND, JOHN HASTINGS . . . . .	S.		2 Wellington St., Boston, Mass.
HOWLAND, RICHARD STANLEY, O. E. . . . .	S.		69 Manning St., Providence, R. I.
HOWES, BENJAMIN ALFRED . . . . .	VI.	'97	36 Marlboro St., Keene, N. H.
HOXIE, ARTHUR EDMUND, O. E. . . . .	I.	'99	Everett, Mass.
HOXIE, TIMOTHY WRIGHT . . . . .	II.	'99	75 Moreland St., Roxbury, Mass.
HUBBARD, CHESTER DIMOCK . . . . .	VI.	'97	134 W. Newton St., Boston, Mass.
HUBBARD, GARDINER GREENE, 2D . . . . .	S.		150 Brattle St., Cambridge, Mass.
HUBBARD, JESSE BRANCH . . . . .	S.		664 North St., Pittsfield, Mass.
HUBBARD, WINFRED DEAN . . . . .	XI.	'98	Concord, Mass.
HULTMAN, EUGENE CHRISTIAN . . . . .	I.	'96	105 Wash'ton St., Quincy, Mass.
HUME, GEORGE SEWARD . . . . .	VI.	'99	Eastport, Me.
HUMPHREY, SETH KING . . . . .	S.		Northampton, Mass.
HUMPHREYS, WALTER, A. K. E. . . . .	II.	'97	Humphreys Pl., Dorchester, Mass.
HUNNEWELL, FREDERICK ALLEN . . . . .	XIII.	'97	18 Orchard St., Cambridge, Mass.
HUNT, HARRY BURLEIGH, S. X. . . . .	II.	'97	240 Macon St., Brooklyn, N. Y.
HUNT, HARRY DRAPER . . . . .	IX.	'97	No. Attleboro, Mass.
HUNT, SAMUEL P., A.B., S.B., K. K. K. . . . .	S.		747 Union St., Manchester, N. H.
HURD, BENJAMIN, JR., F. B. E. . . . .	VI.	'96	11 Waverly St., Brookline, Mass.
HURTER, CHARLES SWAMBERG . . . . .	III.	'97	21 Water St., Hyde Park, Mass.
HUSE, ARTHUR WOOD . . . . .	S.		Newburyport, Mass.
HUTCHINSON, GEORGE ANTHONY . . . . .	II.	'98	14 Wales St., Dorchester, Mass.
HYDE, CHARLES GILMAN, A. K. E. . . . .	XI.	'96	Yantic, Conn.
IDE, ALICE BULLARD . . . . .	S.		77 Mt. Pleasant Ave., Roxbury.
ILSLEY, JOHN PARKER, JR., A. F. . . . .	II.	'97	Germantown, Pa.
INGALLS, CHARLES HENRY . . . . .	VI.	'96	Danvers, Mass.
INGALLS, HARRY CREIGHTON . . . . .	IV.	'98	229 Ocean St., Lynn, Mass.
INGELL, HOMER PRESTON . . . . .	S.		160 Cohannet St., Taunton, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
JACKSON, ALLEN W., Δ. K. E. . . . .	S.		33 Coolidge St., Brookline, Mass.
JACKSON, GEORGE OTIS . . . . .	S.		Lexington, Mass.
JACKSON, HENRY DOCKER . . . . .	S.		Hotel Oxford, Boston, Mass.
JACOBS, ELBRIDGE CHURCHILL . . . .	S.		38 Mt. Vernon St., Malden, Mass.
JACOBY, ARELI HULL . . . . .	V. '98		Franklin St., Wilkesbarre, Pa.
JAMES, HENRY PHILIP . . . . .	S.		Kendall Green, Mass.
JAMES, WALTER HERMAN . . . . .	II. '96		Yarmouth St., Portsmouth, N. H.
JAMESON, MINOR STORY . . . . .	I. '96		Clintons Corners, N. Y.
JENNINGS, ARTHUR LEWIS . . . . .	II. '97		Deep River, Conn.
JOHNSON, BERTRAND HALEY . . . . .	IV. '98		19 Phillips Ave., Lynn, Mass.
JOHNSON, CHARLES, A.M. . . . .	I. '96		St. Louis St., Baton Rouge, La.
JOHNSON, EDWARD, JR., Θ. Ξ. . . . .	I. '98		178 Marlboro St., Boston, Mass.
JOHNSON, HARRY GEORGE . . . . .	V. '99		Auburndale, Mass.
JOHNSON, LANE . . . . .	II. '99		388 Olin St., Kansas City, Mo.
JOHNSON, PAUL FRANKLIN . . . . .	S.		Milwaukee, Wis.
JONES, BASSETT, JR. . . . .	S.		75 W. 92d St., New York City.
JONES, ELIJAH RICHARDSON . . . . .	VI. '99		Pelham, N. H.
JONES, FREDERIC ALEXANDER . . . . .	I. '98		Needham, Mass.
JONES, FREDERICK HOOPER . . . . .	S.		South Lincoln, Mass.
JONES, HAROLD WELLINGTON . . . . .	S.		South Lincoln, Mass.
JONES, HOWARD KINGSLEY . . . . .	IV. '96		815 Walnut St., Erie, Pa.
JONES, SAMUEL FOSDICK, Δ. Φ. . . . .	S.		228 W. 7th St., Cincinnati, Ohio.
JONES, THEODORE INSLEE . . . . .	VI. '96		149 Park Avenue, Utica, N. Y.
KAUFMAN, IRWIN HAYES . . . . .	II. '98		University Road, Brookline, Mass.
KEENE, ARTHUR SAMUEL . . . . .	IV. '98		41 Murdock St., Brighton, Mass.
KEISKER, FRANK HENRY . . . . .	IV. '97		Louisville, Ky.
KEITH, WILLIAM HENRY . . . . .	VI. '96		St. Augustine, Florida.
KELLEY, HORACE ALCINOUS . . . . .	S.		914 N. 6th St., Burlington, Iowa.
KELLEY, WILLIAM . . . . .	S.		118 Mt. Wash'n St., Lowell, Mass.
KELLOGG, FRANKLIN MINER . . . . .	VI. '98		Elmwood, Conn.
KENDALL, ARTHUR ISAAC . . . . .	V. '99		388 Broadway, Somerville, Mass.
KENDALL, FREDERIC MORRIS . . . . .	S.		Framingham, Mass.
KENDALL, ROBERT EVERETT . . . . .	V. '98		193 Fairmont Ave., Hyde Park.
KENISTON, JAMES AUGUSTUS . . . . .	S.		Hospital for Insane, Middletown.
KENT, WILLIAM ALBERT . . . . .	I. '96		625 E. Capitol St., Washington.
KEYS, EDWARD ALLEN . . . . .	VI. '99		Linden, Md.
KEYS, HARRY MONTIFIX . . . . .	VI. '99		Linden, Md.
KILLAM, JAMES WARREN . . . . .	I. '97		Reading, Mass.
KIMBALL, ELWELL FAIRFIELD . . . . .	S.		2 Otis Place, Newburyport, Mass.
KIMBALL, FRED LEWIS HOLD . . . . .	I. '99		Newton Lower Falls, Mass.
KIMBALL, WALTER EVERARD . . . . .	XIII. '98		1 Robinhood St., Dorchester.
KIMBERLY, ALBERT ELLIOTT . . . . .	V. '97		3 Maple Pl., Jamaica Plain, Mass.
KING, WILLIAM BRAMAN . . . . .	VI. '97		11 Merlin St., Dorchester, Mass.
KINGMAN, WILLIAM ALDEN . . . . .	V. '99		South Framingham, Mass.
KINNEY, CHARLES LEWIS . . . . .	IX. '99		Wareham, Mass.
KINSMAN, WILLIAM ABBOT . . . . .	II. '99		Salem, Mass.
KIRK, ROBERT HOMER, S.B. . . . .	S.		650 Summit Ave., St. Paul, Minn.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
KITE, REBECCA . . . . .	S.		Philadelphia, Pa.
KNIGHT, GEORGE HORACE . . . . .	II.	'97	Hudson, Mass.
KNIGHT, JOSEPH HYDE . . . . .	IX.	'96	Pittsfield, Mass.
KNIGHTS, ARTHUR ALPHRONUS . . . . .	S.		567 Lebanon St., Melrose, Mass.
KOCH, CARLETON SPAYTH, X. Φ. . . . .	V.	'98	429 Richmond Ave., Buffalo, N. Y.
KRUSE, CONRAD FREDERICK, Φ. Δ. Θ. . . . .	IV.	'99	518 W. 5th St., Davenport, Iowa.
KUTTROFF, EDWIN . . . . .	X.	'98	17 E. 69th St., New York City.
LAIGHTON, PAUL DE BLOIS, Δ. K. E. . . . .	S.		Portsmouth, N. H.
LAMB, AUGUSTUS CLARK, Δ. T. Δ. . . . .	X.	'97	19 Sacramento St., Camb'ge, Mass.
LAMBERT, FRED DE FOREST . . . . .	VII.	'99	283 Pawtucket St., Lowell, Mass.
LAMBERT, JOHN HENRY . . . . .	S.		283 Pawtucket St., Lowell, Mass.
LAMBORN, LEEBERT LLOYD, B.S. . . . .	V.	'96	Main St., Alliance, Ohio.
LANE, EDWARD PERCY . . . . .	I.	'98	Manchester, Mass.
LANGFORD, GRACE . . . . .	S.		Chiltonville, Plymouth, Mass.
LARRABEE, JOHN HEBER . . . . .	I.	'98	34 Foster St., Melrose, Mass.
LATHROP, FRED HUCKINS . . . . .	I.	'99	10 Sumner St., Charlestown, Mass.
LAWLER, GEORGE SHERRIFFS . . . . .	VI.	'97	259 Webster St., E. Boston, Mass.
LAWLEY, ARTHUR CROSBY . . . . .	S.		60 N St., S. Boston, Mass.
LAWRENCE, CHAS. E., B.A., A. T. Ω. . . . .	VI.	'96	47 Chapel St., Charleston, S. C.
LAWRENCE, HERBERT EVERETT . . . . .	VI.	'99	Ayer, Mass.
LAWRENCE, RALPH RESTIO, S.B. . . . .	S.		34 Sumner St., Dorchester, Mass.
LAWS, EUGENE HIRAM . . . . .	V.	'96	Bedford, Mass.
LAYNE, CHARLES HOWARD . . . . .	II.	'99	Lexington, Mass.
LEACH, ALBERT ERNEST, S.B. . . . .	S.		Newtonville, Mass.
LEACH, WILLIAM HENRY, JR. . . . .	S.		176 Macon St., Brooklyn, N. Y.
LEADBETTER, FLORENCE EUGÉNIE . . . . .	S.		867 South St., Roslindale, Mass.
LEARNED, ERNEST FREEMAN . . . . .	VI.	'97	15 Irving St., Watertown, Mass.
LEARNED, WILLIS LATHROP . . . . .	V.	'98	15 Irving St., Watertown, Mass.
LEARY, JAMES FRANCIS . . . . .	S.		193 W. 8th St., So. Boston, Mass.
LEARY, WILLIAM GARDNER . . . . .	VI.	'96	17 Stanley St., Dorchester, Mass.
LEAVIT, HENRY FOSS . . . . .	I.	'99	Saco, Me.
LE BARON, FREDERIC NELSON . . . . .	IV.	'97	7 Courtland St., Middleboro, Mass.
LEE, WALTER HENRY . . . . .	IV.	'98	Home City, Ohio.
LEE, WILLIAM LOUIS . . . . .	VI.	'97	319 Hinman Ave., Evanston, Ill.
LEIGHTON, MARSHALL ORA . . . . .	VII.	'96	125 Park St., Portland, Me.
LEIPER, JAMES GERHARD, JR. . . . .	II.	'98	1602 Masters St., Philadelphia, Pa.
LELAND, WALTER SWIFT . . . . .	XIII.	'96	Saxonville, Mass.
LENNAN, THOMAS FRANK . . . . .	VI.	'99	Belmont, Mass.
LEONARD, OWEN LEWIS . . . . .	V.	'98	Newton Centre, Mass.
LEWIS, CLANCEY MONTANA . . . . .	III.	'99	Ketchum, Idaho.
LEWIS, JAMES EDWARD . . . . .	I.	'97	1357 B'dway, W. Somerville, Mass.
LEWIS, JOSEPH ELLIOT . . . . .	II.	'99	Centreville, Mass.
LEWIS, MARION LINCOLN . . . . .	IV.	'96	March Ave., W. Roxbury, Mass.
*LEWIS, RICHARD HENRY . . . . .	S.		16 Gay Head St., Roxbury, Mass.
LINCOLN, FRANCIS CHURCH . . . . .	IV.	'99	226 Newbury St., Boston, Mass.
LINCOLN, ALFRED VARNUM, JR., S.B., . . . . .	S.		32 Cordis St., Charlestown, Mass.

\* Died January 8, 1896.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
LIPPINCOTT, JESSE TREADWELL . . . . .	X.	'98	Mt. Auburn, Cincinnati, Ohio.
LITCHFIELD, PAUL WEEKS . . . . .	X.	'96	94 Howard Ave., Roxbury, Mass.
LITTLE, EDMUND COOK . . . . .	IV.	'98	77 Mansen St., Lowell, Mass.
LOCKE, CHARLES E. . . . .	III.	'96	3 Pearl St., Portsmouth, N. H.
LOCKWOOD, RHODES GREENE, S. X. . . . .	S.		118 Beacon St., Boston, Mass.
LOMBARD, ALFRED WALDO . . . . .	S.		Wayland, Mass.
LOMBARD, PERCIVAL HALL, A.B. . . . .	S.		130 Newbury St., Boston, Mass.
LONG, ZOURIE H. . . . .	S.		36 N. Franklin St., Wilkes Barre.
LONNGREN, JOHN ERIK . . . . .	II.	'96	Waltham, Mass.
LOOMIS, ALLEN, Y. Y. . . . .	XIII.	'99	Jackson, Mich.
LOOMIS, HENRY MEECH . . . . .	V.	'97	Yokohama, Japan.
LOOTZ, ALF C. . . . .	I.	'96	116 St. Botolph St., Boston, Mass.
LORD, CHARLES EDWARD . . . . .	VI.	'98	63 Col'bus Ave., Somerville, Mass.
LORD, HERBERT IVORY . . . . .	V.	'98	75 Howard Ave., Roxbury, Mass.
LOVEJOY, WALTER LIVINGSTON . . . . .	III.	'98	109 Manner St., Buffalo, N. Y.
LOVELAND, BENJAMIN ALPHEUS . . . . .	I.	'97	Chatham, Mass.
LUNT, ROBERT SOMERBY . . . . .	S.		19 Pawn St., Newburyport, Mass.
LYALL, AMASA JAMES, B.A. . . . .	S.		324 W. 28th St., New York City.
LYMAN, GEORGE WILLIAM . . . . .	VI.	'96	92 Washington Sq., Salem, Mass.
LYNCH, GEORGE EDWARD . . . . .	II.	'99	48 Lincoln St., Hyde Park, Mass.
LYTHGOE, HERMANN CHARLES . . . . .	V.	'96	Winthrop, Mass.
MACBRIDE, JAMIE DOUGLAS . . . . .	XIII.	'99	Arlington Heights, Mass.
MACINTIRE, BENJAMIN GOULD . . . . .	V.	'99	80 Worcester St., Boston, Mass.
MAGEE, GUY, JR., S. X. . . . .	I.	'99	1626 Barry Ave., Chicago, Ill.
MAGEE, JOHN, 2D . . . . .	II.	'99	Wenham, Mass.
MAGUIRE, THOMAS FRANCIS JAMES . . . . .	VI.	'97	8 Beale St., Dorchester, Mass.
MAHONEY, JOSEPH MICHAEL . . . . .	S.		21 Bailey St., Dorchester, Mass.
MANAHAN, JOHN HENRY . . . . .	VI.	'96	14 Newbury St., Boston, Mass.
MANDEVILLE, WILLIAM HARRY, X. Φ. . . . .	IV.	'99	141 First St., Olean, New York.
MANNING, ALICE LEE . . . . .	S.		Milton, Mass.
MANSFIELD, EDWARD STACEY . . . . .	S.		Wakefield, Mass.
MANSFIELD, FRANK ERASTUS . . . . .	S.		26 Cumberland St., Boston, Mass.
MARSHALL, HERMAN WESTON . . . . .	S.		114 Highland St., Brockton, Mass.
MARSHALL, WILLIAM ADAMSON . . . . .	X.	'98	Corey Hill, Brookline, Mass.
MANSON, EDMUND SEWALL, JR. . . . .	VIII.	'97	7 Holliday St., Dorchester, Mass.
MASON, EARL POTTER . . . . .	II.	'97	136 Dyer St., Providence, R. I.
MATHESON, WILLIAM SCOTT . . . . .	S.		Tatamagouche, N. S.
MATHEWS, GEORGE EUGENE . . . . .	S.		1624 E. Third St., Dayton, Ohio.
MAYER, DURAND . . . . .	VI.	'98	138 Fifth Ave., New York City.
MCALPINE, WILLIAM HORATIO . . . . .	XI.	'96	18 Abbott St., Lawrence, Mass.
MCCANN, FRANK GOODMAN . . . . .	II.	'96	Oak Park, Illinois.
MCCARTHY, FRANCIS VINCENT . . . . .	S.		28 Northend St., Peabody, Mass.
MCCARTHY, GEORGE HERBERT . . . . .	IX.	'97	W. Fuller St., Dorchester, Mass.
MCCONNELL, WALTER GARDNER . . . . .	XIII.	'98	516 Warren St., Roxbury, Mass.
MCCORMICK, EDMUND BURKE . . . . .	II.	'97	Normal, Ill.
MCDONALD, CHARLES SNEAD . . . . .	IV.	'99	Louisville, Ky.
MCDONALD, WILLIAM THOMAS . . . . .	XI.	'99	North Abington, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
McGANN, MALCOLM HOBART, Δ. Ψ.	S.		Bailey Island, Me.
McINTYRE, JAMES SHERWOOD	IV.	'98	16 Willis St., New Bedford, Mass.
McKAY, JAMES ALBERT	S.		1100 Boylston St., Boston, Mass.
McKELL, WILLIAM, PH.B.	S.		Chillicothe, Ohio.
McLAUTHLIN, PARKER REED	VII.	'99	Malden, Mass.
McLEAN, DUNCAN CRAWFORD	II.	'99	16 Cranston St., Newport, R. I.
McMILLAN, JOHN PRIMROSE	X.	'97	Petrolia, Ont.
MEAD, EDWIN BRADLEY	IV.	'99	217 7th St., Erie, Pa.
MEADER, EFFIE MAROZIA	S.		Nashua, N. H.
MEDUNKIN, PAUL	VI.	'98	Somerville, Mass.
MELLUISH, JAMES GEORGE, Φ. Δ. Θ.	IX.	'96	207 N. Main St., Bloomington, Ill.
MERRELL, IRVING SEWARD	II.	'96	504 W. Onondago St., Syracuse.
MERRICK, CHARLES IRVING, A.B.	S.		Holyoke, Mass.
MERRILL, LESLIE EATON	II.	'99	Haverhill, Mass.
MERRYWEATHER, GEORGE EDMAND	II.	'96	Avondale, Cincinnati, Ohio.
METCALF, BRICE, Δ. Ψ.	S.		59 E. 56th St., New York City.
MILLER, SARAH ELIZABETH	S.		127 Pembroke St., Boston, Mass.
MILLIKEN, CARL SPENCER	VII.	'99	Malden, Mass.
MILLIKEN, EDWARD NORRIS	VIII.	'98	287 Pleasant St., N. Bedford, Mass.
MILLIKEN, SUMNER MOULTON	I.	'98	Saco, Me.
MILLS, DAVID COLLIER	III.	'99	Quincy, Cal.
MILLS, PRESCOTT CALDWELL	II.	'98	Arlington, Mass.
MINK, EDWARD	S.		85 Elm St., W. Somerville, Mass.
MINNING, FRANK RAYMOND, A. T. Ω.	II.	'98	615 Centre Ave., Reading, Pa.
MITKIEWICZ, EUGENE DE	I.	'99	2217 Wash'n Circle, Wash'n, D. C.
MOAT, CHARLES PERKINS, X. Φ.	V.	'96	70 Middle St., Portsmouth, N. H.
MOEBS, JOSEPH JULIUS	I.	'98	239 Eustis St., Boston, Mass.
MOHMERS, RICHARD	S.		South Manchester, Mass.
MONROE, GEORGE SWEETSER, Δ. T. Δ.	IX.	'97	88 Monroe St., Somerville, Mass.
MONTETH, ARTHUR DAVID	S.		Dedham, Mass.
MOODY, ARTHUR RICHMOND	V.	'99	Chelsea, Mass.
MOORE, CLARENCE ALFRED	X.	'99	Arlington, Mass.
MOORE, HUGH KELSEA	S.		68 Newhall St., Lynn, Mass.
MOORE, JOHN DENIS JOSEPH, S.B.	II.	'96	275 Bay St., Springfield, Mass.
MORAN, GEORGE AUSTIN	V.	'97	So. Framingham, Mass.
MORK, HARRY SOLOMON	V.	'99	19 Waumbeck St., Roxbury, Mass.
MORRILL, EDWARD FRANCIS	VI.	'98	80 Snow St., Fitchburg, Mass.
MORRILL, GUY LOUIS	VI.	'96	35 Howard Ave., Roxbury, Mass.
MORRILL, JEDEDIAH ALBERT	S.		Rochester, N. H.
MORRIS, CHARLES, JR.	VI.	'96	Presidio, San Francisco, Cal.
MORRIS, WILLIAM LONGFELLOW	VI.	'99	109 Fifth St., Washington, D. C.
MORSE, BENJAMIN EAMES	II.	'99	Canton, Mass.
MORSE, GENEVA LILLIAN	S.		Montague, Mass.
MORSE, HARRY LEONARD	VI.	'99	8 Ashford St., Allston, Mass.
MORSE, HENRY GRANT, JR., Δ. Ψ.	IV.	'99	800 Delaware Av., Wilm'ton, Del.
MORTON, HARRY HOLBROOK	XIII.	'99	30 Warren St., Plymouth, Mass.
MOTCH, EDWARD RAMOND	II.	'97	1553 Madison Av., Covington, Ky.
MOTCH, STANLEY	II.	'99	1553 Madison Av., Covington, Ky.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
MOTT-SMITH, MORTON C. . . . .	VI.	'99	101 Newbury St., Boston, Mass.
MULHALL, HAROLD TOREY . . . . .	VI.	'97	9 Laurel St., Dorchester, Mass.
MÜHLHÄUSER, ERNEST . . . . .	II.	'99	119 N. Col'bus St., Alexandria, Va.
MUHLIG, JAMES FRED . . . . .	II.	'98	42 N. Main St., Natick, Mass.
MUNROE, GEORGE SWEETSER . . . . .	IX.	'97	88 Munroe St., Somerville, Mass.
MURLESS, CHARLES SOULE . . . . .	S.		101 Chestnut St., Holyoke, Mass.
MURPHY, CHARLES AUGUSTUS . . . . .	S.		149 Howard Ave., Roxbury, Mass.
MURRAY, PARNELL SIDWAY . . . . .	S.		2 Akron Pl., Roxbury, Mass.
NAREY, HOPE WENTWORTH . . . . .	S.		61 W. Newton St., Boston, Mass.
NATHAN, ALBERT FRANKLIN, JR. . . . .	VI.	'99	Virginia Hotel, Kansas City, Mo.
NEBEL, HERREROS ALEJANDRO, B.S. . . . .	S.		Santiago, Chile.
NEEDHAM, SARAH JANE CLARKSON . . . . .	S.		Hotel Eliot, Roxbury, Mass.
NEIDICH, SAMUEL A., PH.B. . . . .	X.	'98	12 W. High St. Carlisle, Pa.
NELSON, ALEXANDER HOWARD, A.B. . . . .	S.		Chambersburgh, Pa.
NELSON, WILLARD BUNDY . . . . .	VI.	'98	7 Boyls'n Terrace, Jamaica Plain.
NEVIN, CHARLES KIRKLAND BARKER . . . . .	IV.	'96	71 Gardner St., Allston, Mass.
NEWELL, HERBERT DAMON . . . . .	I.	'96	Hampden, Mass.
NEWELL, LESTER ALLEN . . . . .	X.	'99	Globe Village, Mass.
NEWELL, WILLIAM STARK . . . . .	XIII.	'99	Winchester, Mass.
NEWHALL, CHARLES SAUNDERSON . . . . .	III.	'96	74 Broad St., Lynn, Mass.
NEWHALL, HENRY BORDEN, F. B. E. . . . .	VI.	'98	331 Le Grande Av., Plainfield, N. J.
NEWKIRK, EDWARD THOMPSON . . . . .	II.	'99	Jackson, Mich.
NICKERSON, CLARENDON . . . . .	X.	'97	15 Courtland St., Bridgeport.
NOBLE, HOWARD AGNEW, X. F. . . . .	II.	'97	5716 Howe St., Pittsburgh, Pa.
NOBLE, RAYMOND . . . . .	S.		Granville, Mass.
NOLTE, JULIUS . . . . .	II.	'98	803 Centre St., Jamaica Pl., Mass.
NORMAN, LIONEL . . . . .	S.		62 Cyprus St., Brookline, Mass.
NORRIS, ALBERT PERLEY . . . . .	V.	'97	760 Mass. Ave., Cambridgeport.
NORRIS, GRACE ADELAIDE . . . . .	S.		129 Chestnut St., Chelsea, Mass.
NOWELL, WALTER GATES . . . . .		'99	Reading, Mass.
NORTON, ALICE PELOUBET, A.B. . . . .	S.		Auburndale, Mass.
NOYES, JOSEPH COBHAM . . . . .	S.		394 Danforth St., Portland, Me.
NOYES, LEONARD HAZEN . . . . .	V.	'99	Haverhill, Mass.
O'BRIEN, TIMOTHY LEO . . . . .	S.		345 B'dway, Cambridgep't, Mass.
OELRICH, EDWARD . . . . .	IV.	'99	361 Pearl St., Buffalo, N. Y.
O'HARA, ANNA FANNIE . . . . .	S.		32 Spring St., Dorchester, Mass.
O'HERN, TIMOTHY CYRIL . . . . .	II.	'99	3 Winslow Av., N. C'mb'dge, Mass.
OLIN, EDWIN READ . . . . .	X.	'97	29 St. James St., Roxbury, Mass.
OLIVER, MARSHALL F., A.B., Δ. T. Δ. . . . .	IV.	'97	Annapolis, Md.
ORR, HUGH . . . . .	IV.	'97	207 Court St., Brockton, Mass.
OSGOOD, EDWIN PUTNAM . . . . .	XI.	'97	31 E. Newton St., Boston, Mass.
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SWAN, CHARLES MAYO . . . . .	VII.	'97	6 Sanford St., Mattapan, Mass.
SWAN, CLIFFORD MELVILLE . . . . .	S.		91 Babcock St., Brookline, Mass.
SWAN, RUDOLPHUS ASHLEY, S. A. E.	S.		110 Fourth St., New Bedford.
SWASEY, ALBERT LORING, A. P. . . . .	XIII.	'98	146 High St., Taunton, Mass.
SWEETSER, CHARLES H., S. A. E. . . . .	S.		27 Lawrence St., Wakefield, Mass.
SWIFT, CHARLES WILLISTON . . . . .	II.	'98	Provincetown, Mass.
SWIFT, FRANK ROBINSON . . . . .	V.	'99	575 Delaware Ave., Buffalo, N. Y.
TAFT, HARRISON SOUTHWICK, B. P. . . . .	II.	'96	102 Waterman St., Providence.
TALLMADGE, THOMAS EDDY, F. B. E.	IV.	'98	1631 Hinman Ave., Evanston, Ill.
TANDY, WILBERT CLIFTON . . . . .	II.	'99	Athol, Mass.
TAPPAN, FREDERIC . . . . .	VI.	'98	171 Newbury St., Boston, Mass.
TAPPAN, LEWIS HOOPER . . . . .	II.	'96	Manchester, Mass.
TAYLOR, BRAINERD . . . . .	IX.	'99	Central Ave., Newtonville, Mass.
TAYLOR, DENZIL HOLLIS . . . . .	XI.	'99	Peterboro, N. H.
TAYLOR, EDWARD MOLINEUX . . . . .	II.	'98	66 Garden St., Poughkeepsie, N. Y.
TAYLOR, JOHN . . . . .	VI.	'97	294 Walnut St., Brookline, Mass.
TAYLOR, MARK ELLIOTT . . . . .	VIII.	'98	47 Lincoln St., Hyde Park, Mass.
TAYLOR, WILLIAM BELLAMY . . . . .	II.	'96	294 Walnut St., Brookline, Mass.
TERRY, HENRY KINGSBURY, JR. . . . .	XIII.	'99	407 E. Cary St., Richmond, Va.
TEW, WILLIAM HENRY, A. K. E. . . . .	S.		418 Spring St., Jamestown, N. Y.
TEWKSBURY, JAMES WINTHROP, O. E.	IX.	'97	115 Nahant St., Lynn, Mass.
THANISCH, FRANK ARTHUR . . . . .	III.	'96	3305 Wash'ton St., Jamaica Plain.
THAYER, HORACE RICHMOND . . . . .	I.	'98	Blackstone, Mass.
THOMAS, HENRY EWAN, B. S. . . . .	S.		3714 Walnut St., Philadelphia, Pa.
THOMAS, WILLIAM HARRISON, JR. . . . .	V.	'96	319 Boston St., Lynn, Mass.
THOMPSON, ABBY MAY, PH. B. . . . .	S.		78 Rutland St., Boston, Mass.
THOMPSON, ALBERT WILLIAM, A. T. A.	II.	'96	298 Pawtucket St., Lowell, Mass.
THOMPSON, MAURICE DE KAY, A. K. E.	VIII.	'98	508 Greenup St., Covington, Ky.
THOMSON, LUCY DOOLITTLE, A. B. . . . .	IV.	'96	Belchertown, Mass.
THOMSON, MARY JANE . . . . .	S.		682 Garden St., Elizabeth, N. J.
THOMSON, SAMUEL FORSYTHE . . . . .	I.	'96	292 King St., Charleston, S. C.
TIETIG, RUDOLPH . . . . .	IV.	'98	Avondale, Cincinnati, Ohio.
TILLEY, JOHN . . . . .	VI.	'96	123 First St., West Troy, N. Y.
TINKHAM, EDGAR LUTHER, B. P. . . . .	VI.	'97	37 Courtland St., Providence, R. I.
TODD, THOMAS, JR. . . . .	II.	'99	Concord, Mass.
TONE, JAY ERWIN . . . . .	S.		Woodland Ave., Des Moines, Ia.
TORREY, CHARLES AUGUSTINE, JR. . . . .	V.	'98	Lynnfield, Mass.
TORREY, EMELINE ELIZA . . . . .	S.		23 Winthrop St., Roxbury, Mass.
TOWER, CLEMENT BATES, JR. . . . .	S.		Hyde Park, Mass.
TOWER, SAMUEL FRANCIS, A. B. . . . .	S.		63 St. Botolph St., Boston, Mass.
TOWNE, LILLIAN MAY . . . . .	S.		34 Falmouth St., Boston, Mass.
TOWNSEND, GEORGE RICHARDS, A. Y. . . . .	XIII.	'99	New York City.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
TRASK, EDGAR PIERCE . . . . .	XIII.	'99	Peabody, Mass.
TUCKER, ALBERT WILLIAM . . . . .	III.	'98	Summit Pl., Newburyport, Mass.
TUCKER, ATHERTON HOWE . . . . .	IV.	'98	1079 Adams St., Dorchester, Mass.
TUCKER, CHARLES WILLIAM . . . . .	V.	'96	Andover, Mass.
TUCKER, FRANK STEVENSON . . . . .	S.		Marblehead, Mass.
TUCKER WILLIAM ALBERT, S.B. . . . .	S.		312 Warren St., Roxbury, Mass.
TUFTS, JOHN LAWRENCE . . . . .	V.	'99	50 Woodbine St., Roxbury, Mass.
TURNER, LAWRIE HUMPHREY . . . . .	V.	'99	39 Salem St., Medford, Mass.
TWOMBLY, FRED HENRY . . . . .	IX.	'98	Newton Centre, Mass.
TYLER, LUCIUS SPAULDING, Σ. X. . . . .	VI.	'97	Waltham, Mass.
ULKE, DARWIN . . . . .	VI.	'99	411 15th St., N. W., Washington.
ULMER, GEORGE FREDERICK, X. Φ. . . . .	V.	'98	82 Cliff St., Norwich, Conn.
UNDERHILL, ARTHUR PERLEY, X. Φ. . . . .	VI.	'96	Springfield, Mass.
UNDERWOOD, FRANK EDWARD . . . . .	S.		Auburndale, Mass.
UNDERWOOD, HOWARD COGGIN . . . . .	II.	'98	Natick, Mass.
UNDERWOOD, JOHN DE LOSS, Σ. A. E. . . . .	S.		Box 1628, Malden, Mass.
URQUIZA Y BEA, PEDRO, O. E. . . . .	S.		Bilbao, Spain.
USHER, SUSANNAH . . . . .	S.		9 Kirkland Pl., Cambridge, Mass.
VALKAMP, HENRY RUDOLPH . . . . .	S.		2210 Miami St., St. Louis, Mo.
VALLECILLO, MANDRY RAFAEL . . . . .	S.		Yabucoa, Porto Rico.
VANDERHOFF, HERBERT DOUGLAS . . . . .	S.		571 Mass. Ave., Boston, Mass.
VAN EVEREN, GRACE ABBIE . . . . .	V.	'96	841 Jefferson Ave., Brooklyn, N.Y.
VAN HORNE, RICHARD BENEDICT, Δ. Ψ. . . . .	S.		Shubrook St., Montreal, Quebec.
VIDETO, THEODORE ERNEST . . . . .	IV.	'97	S. Framingham, Mass.
VIGNOS, ALFRED A. . . . .	VI.	'97	173 West Tus. St., Canton, Ohio.
VINAL, RALPH SUMNER . . . . .	IV.	'97	42 Warren St., Brockton, Mass.
VINING, ROBERT McALLASTER . . . . .	II.	'98	South Weymouth, Mass.
VOGT, OSCAR GEORGE . . . . .	IV.	'99	607 East St., N. W., Washington.
VON HOLST, HERMANN V., A.B., Δ. T. . . . .	IV.	'96	255 East 61st St., Chicago, Ill.
VOSE, WILLIARD BADGER . . . . .	S.		25 Sunnyside St., Hyde Park.
WADDELL, FRED CREELAN . . . . .	I.	'99	Rockport, Mass.
WADLEIGH, GEORGE ROBINSON . . . . .	II.	'97	Fountain St., West Newton, Mass.
WADSWORTH, GEORGE REED, Δ. Y. . . . .	I.	'98	29 Beacon St., Keene, N. H.
WALKER, CLARENCE HOWARD . . . . .	II.	'99	Rumford, R. I.
WALKER, JAMES CANFIELD . . . . .	S.		241 S. Main St., St. Albans, Vt.
WALL, WILLIAM GUY, Δ. T. Δ. . . . .	VI.	'96	Buck Lodge, Md.
WALLACE, ROBERT BRUCE, Δ. Y. . . . .	S.		121 Viaduct, Cleveland, Ohio.
WALPOLE, NATHANIEL CHAFFEE . . . . .	S.		Aiken, S. C.
WALTERS, EDWARD PHILIP . . . . .	V.	'99	47 Camp St., Providence, R. I.
WALTHER, WILLIAM JOHN . . . . .	I.	'97	929 N. Halsted St., Chicago, Ill.
WALTON, JAMES HENRY, JR. . . . .	V.	'99	13 Coelin St., Newburyport, Mass.
WARD, WARD WELLINGTON, Δ. Y. . . . .	IV.	'98	Wyandotte, Mich.
WARREN, ALBA HOUGHTON . . . . .	S.		21 Fruit St., Worcester, Mass.
WARREN, JOHN EDWARD . . . . .	II.	'98	Foxvale, Mass.
WASHBURN, THURLOW, Δ. K. E. . . . .	III.	'97	31 Lee St., Cambridge, Mass.
WASON, ROBERT SIDNEY, Σ. A. E. . . . .	S.		225 Main St., Nashua, N. H.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
WATERMAN, HENRY ARTHUR . . . . .	II.	'96	2 Prospect St., Malden, Mass.
WATERSON, KARL WILLIAM . . . . .	VI.	'98	31 Bellevue St., Lowell, Mass.
WATKINS, FREDERICK ARTHUR . . . . .	VI.	'99	33 Rush St., Chicago, Ill.
WATKINS, NORMAN . . . . .	S.		Poplar St., Roslindale, Mass.
WATROUS, CHARLES ALBERT . . . . .	IV.	'99	672 17th St., Des Moines.
WATROUS, WALTER CHAUNCEY, X. Φ.	VI.	'99	421 E. 2d St., Duluth, Minn.
WATTS, FRANCIS HENRY . . . . .	I.	'97	Natick, Mass.
WAYNE, JACOB LLOYD . . . . .	VI.	'96	Avondale, Cincinnati, Ohio.
WEDLOCK, WILLIAM HENRY . . . . .	VI.	'99	4 Weldon St., Roxbury, Mass.
WEEKS, MERLE . . . . .	S.		1011 N. H Ave., Washington.
WELLS, ALBERT JAMESON . . . . .	II.	'96	32 Orchard St., Lawrence, Mass.
WELLS, WALTER WILEY . . . . .	VI.	'99	Sackville, N. B.
WEIMER, EDGAR ARTHUR . . . . .	S.		Lebanon, Pa.
WENTWORTH, CHARLES AUSTIN . . . . .	I.	'96	9 Howard St., Haverhill, Mass.
WERNER, FRANK ALBERT, Σ. X. . . . .	XIII.	'99	Akron, Ohio.
WESSON, PAUL BANCROFT . . . . .	II.	'98	Tyngsboro, Mass.
WEST, WILLIAM EATON . . . . .	V.	'99	24 Rockinham St., Cambridgeport.
WEYMOUTH, THOMAS ROTE, Δ. Υ. . . . .	VI.	'97	56 W. Main St., Lock Haven, Pa.
WHITAKER, LEWIS ROSE . . . . .	II.	'99	Parsons St., Brighton, Mass.
WHITE, HARRY KEITH . . . . .	IV.	'99	32 N. Main St., Brattleboro, Vt.
WHITE, WILLIAM . . . . .	V.	'98	195 Cohannet St., Taunton, Mass.
WHITING, ELEANOR FELTON . . . . .	S.		100 Main St., Charlestown, Mass.
WHITING, RALPH SPELMAN, Δ. K. E. . . . .	S.		70 Beacon St., Pittsfield, Mass.
WHITMORE, JOHN, Ph.D. . . . .	S.		80 High Rock Ave., Lynn, Mass.
WHITNEY, LAMBERT NUTT . . . . .	I.	'96	74 Waban Park, Newton, Mass.
WHITNEY, RICHARD . . . . .	I.	'97	40 Wales St., Dorchester, Mass.
WHITNEY, WALTER CUMMINGS . . . . .	I.	'99	54 Jefferson St., Newton, Mass.
WHITON, DAVID THOMAS . . . . .	II.	'97	Hingham Centre, Mass.
WHITTEN, ROSCOE BENJAMIN . . . . .	IV.	'98	129 Brooks St., E. Boston, Mass.
WHITTEN, WILLIAM HENRY, JR. . . . .	VIII.	'96	59 School St., Roxbury, Mass.
WIGHTMAN, EDWIN EVANS . . . . .	I.	'98	898 N. Main St., Pawtucket, R. I.
WIGHTMAN, FRED . . . . .	II.	'99	Oskaloosa, Iowa.
WILDER, CLIFTON WHITE . . . . .	II.	'98	8 Gardner Pl., Leominster, Mass.
WILDER, RALPH EDWARD . . . . .	I.	'98	3 Sunset Ave., W. Roxbury, Mass.
WILDER, WILLIAM ALPHONSO . . . . .	VI.	'98	619 B. St., S. E. Washington, D. C.
WILLIAMS, DORA . . . . .	S.		Walnut St., Brookline, Mass.
WILLIAMS, WINIFRED . . . . .	S.		11 Warren Sq., Jamaica Plain.
WILLIS, JOHN HOWARD, A.B. . . . .	IV.	'96	Waban, Mass.
WILLIS, RAYMOND SMITH, Φ. B. E. . . . .	S.		210 Davis St., Evanston, Ill.
WING, CHARLES FREDERIC . . . . .	VI.	'98	37 S. 6th St., New Bedford, Mass.
WING, DAVID LAFOREST, Δ. K. E. . . . .	IX.	'98	43 Ohio St., Bangor, Me.
WING, IDA CEOLA STRATTON . . . . .	S.		Hotel Jorden, Jamaica Plain, Mass.
WINN, MARY ELEANOR . . . . .	S.		17 Mechanic St., Allston, Mass.
WINSLOW, CHARLES EDWARD AMORY . . . . .	VII.	'98	Hotel Oxford, Boston, Mass.
WINSLOW, GEORGE CARLOS, JR. . . . .	VI.	'99	12 Yarmouth St., Boston, Mass.
WISE, SAMUEL FRANCIS . . . . .	I.	'97	771 Broadway, S. Boston, Mass.
WITHERELL, PERCY WARREN . . . . .	VI.	'99	5 Devon St., Roxbury, Mass.
WOOD, FLORENCE ANNA . . . . .	VIII.	'96	9 Bainbridge St., Roxbury, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
WOOD, WILLARD LYMAN, JR. . . . .	VI.	'99	Upton, Mass.
WOOD, WILLETT AUBREY . . . . .	VI.	'96	194 Pitcher St., Detroit, Mich.
WOOD, WILLIAM REMINGTON . . . . .	XIII.	'97	136 Broadway, Providence, R. I.
WOOD, WINTHROP BARRETT . . . . .	I.	'98	Concord, Mass.
WOODMAN, ALPHEUS GRANT . . . . .	V.	'97	Essex, Mass.
WOODMAN, GEORGE MADOCK . . . . .	I.	'97	Essex, Mass.
WOODWELL, JULIEN ERNEST . . . . .	II.	'96	Newburyport, Mass.
WOODWORTH, EDWARD HAROLD . . . . .	V.	'97	Newtonville, Mass.
WOODYATT, ERNEST, Σ. X. . . . .	S.		Evanston, Ill.
WORCESTER, HENRY ELWYNNE . . . . .	S.		9 Lombard St., Dorchester, Mass.
WRIGHT, GEORGE HENRY . . . . .	S.		104 Dartmouth St., Boston, Mass.
WYARD, EDWARD SAXON . . . . .	S.		70 Chandler St., Boston, Mass.
YOUNG, CONRAD HENRY, B. Θ. II. . . . .	S.		8 S. Piedmont St., Canton, Ohio.
ZIMMERMANN, WALTER G., Σ. X. . . . .	II.	'98	683 Sedgwick St., Chicago, Ill.

#### SUMMARY.

GRADUATE STUDENTS . . . . .	80
REGULAR STUDENTS, fourth year . . . . .	189
REGULAR STUDENTS, third year . . . . .	189
REGULAR STUDENTS, second year . . . . .	197
REGULAR STUDENTS, first year . . . . .	272
SPECIAL STUDENTS . . . . .	336
Total . . . . .	1,263
Deduct names counted twice . . . . .	76
	1,187



## IN MEMORIAM

EDWIN AVERY ELDER, '97.

Died December 5, 1895.

MAX STEVENS CARLETON, '99.

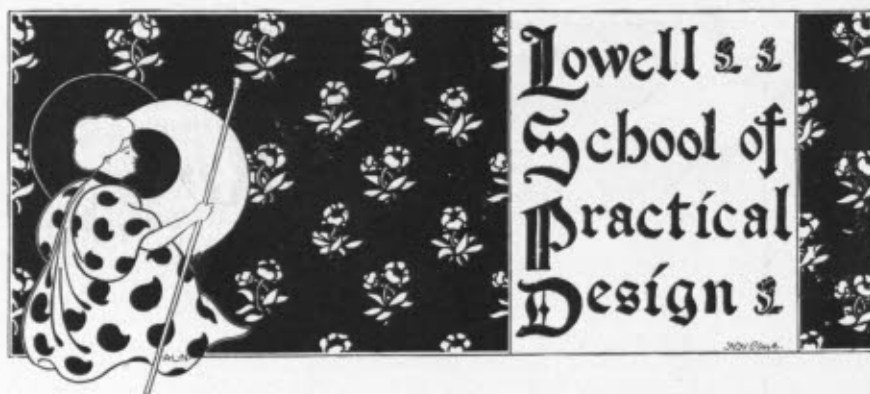
Died December 12, 1895.

PERCY FARNHAM LAWRENCE, '97.

Died December 21, 1895.

RICHARD HENRY LEWIS, '96.

Died January 8, 1896.



### INSTRUCTORS.

CHARLES KASTNER.

MABEL STEVENS.

### REGISTER OF STUDENTS.

NAME.	HOME.	RESIDENCE.
ADAMS, LUCY MARY . . . . .	Hyde Park . . . . .	Hyde Park.
ALLEN, MARY EDNA . . . . .	Spencer . . . . .	80 Rutland Sq.
ALLEN, WINTHROP BLAKESLEY . . . . .	Newton . . . . .	Newton.
BARRETT, JESSIE GERTRUDE . . . . .	Malden . . . . .	Malden.
BEEBE, ADELAIDE SOPHIA . . . . .	Hampden . . . . .	135 W. Concord St.
BLISS, NELLIE MAY . . . . .	Quincy . . . . .	Quincy
BRALEY, WILLIAM ERNEST . . . . .	Fall River . . . . .	564 Columbus Ave.
BRAYTON, HERBERT ELMER E. . . . .	Fall River . . . . .	94 W. Newton St.
BUCKNAM, GRACE WINSLOW . . . . .	Mechanic Falls, Me. . . . .	5 Akron St.
CARR, EVA LOUISE . . . . .	Dorchester . . . . .	79 Kenwood St., D.
CHAMBERLAIN, HARRIETTE LOUISE . . . . .	Boston . . . . .	33 Wellington St.
DAMON, EDWARD LESTER . . . . .	Reading . . . . .	Reading.
DANFORTH, HOMER WALLACE . . . . .	N. Woburn . . . . .	N. Woburn.
DANIELS, EMMA LOUISE . . . . .	Roxbury . . . . .	Lambert St., R.
DOW, MINNIE ELLA . . . . .	Franklin . . . . .	Franklin.
DWYER, ELIZABETH LORETTA . . . . .	Cambridgeport . . . . .	Cambridgeport.
FISCHER, EUGENE NICHOLAS . . . . .	Jamaica Plain . . . . .	Franklin Park, J. P.
FLINT, ADDISON . . . . .	Danvers . . . . .	Reading.
GOODRICH, GRACE ROSETTA . . . . .	Dorchester . . . . .	109 Westville St., D.
GRAHAM, ETHEL EMERSON . . . . .	Roxbury . . . . .	20 Akron St., R.
GRAY, REUBEN FORREST . . . . .	S. Manchester, Ct. . . . .	S. Manchester, Ct.
GUELL, ALICE FRANCES . . . . .	Boston . . . . .	22 Buckingham St.
HAGERTY, ELIZABETH MONICA . . . . .	Boston . . . . .	39 E. Brookline St.
HAYNES, MARY EMMELINE . . . . .	Dorchester . . . . .	418 Seaver St., D.
HEATH, MARIANNA PRIMROSE . . . . .	Somerville . . . . .	Somerville.
HILL, HENRY BROOKS STEPHEN . . . . .	Roxbury . . . . .	48 Centre St., R.



NAME.	HOME.	RESIDENCE.
HILTON, RENA EVELYN . . . . .	Hyde Park . . . . .	Hyde Park.
HINES, EDWARD WALDRON . . . . .	Danversport . . . . .	Danversport.
HUMPHREY, JENNIE MARION K. . . . .	Boston . . . . .	31 E. Concord St.
JOHNSON, ROYAL KENERSON . . . . .	Melrose Highlands . . . . .	Melrose Highlands.
KLOUS, ROSE . . . . .	Roxbury . . . . .	24 Perrin St., R.
LEVY, SARA . . . . .	Boston . . . . .	29 Greenwich Park.
LIBBY, HORATIO AYERS . . . . .	Melrose . . . . .	Melrose.
LINSCOTT, GRACE ISABEL . . . . .	Gloucester . . . . .	Gloucester.
MILLER, ANNIE ROBERTSON . . . . .	St. John, N. B. . . . .	1 Hanson St.
MOSMAN, AUSTIN REYNOLDS . . . . .	Jamaica Plain . . . . .	5 Lam'tine St., J. P.
NORRIS, KATHERINE LOVE . . . . .	Sauk Centre, Minn. . . . .	40 Berkeley St.
OLIVE, MABEL CARROLLTON . . . . .	Roxbury . . . . .	23 Crawford St., R.
ORCUTT, LEON FOREST . . . . .	Hyde Park . . . . .	Hyde Park.
PALMER, ERNEST PACKARD . . . . .	S. Boston . . . . .	660 E. Sixth St., S.B.
PARSONS, EVELYN MAI . . . . .	Saugus Centre . . . . .	Saugus Centre.
PEASE, ERNEST WARREN . . . . .	Worcester . . . . .	Worcester.
PIKE, HELEN PACKARD . . . . .	Worcester . . . . .	Worcester.
POOR, FREDERICK WALTON . . . . .	Derry, N. H. . . . .	23 St. Charles St.
POORE, MABEL . . . . .	Newburyport . . . . .	Newburyport.
RENAUD, MARIE ALBERTINA . . . . .	Boston . . . . .	136 Chandler St.
RIJN, CHARLES EDWARD WARREN . . . . .	Atlantic . . . . .	Atlantic.
SCHLOSS, ROSA . . . . .	Boston . . . . .	197 W. Newton St.
SHACKFORD, CHARLES LEE . . . . .	E. Weymouth . . . . .	E. Weymouth.
SHERRY, AGNES GERTRUDE . . . . .	S. Boston . . . . .	146 Dor'h'r St., S.B.
SOUTHWORTH, HOWARD DWIGHT . . . . .	Deep River, Conn. . . . .	22 Dartmouth St.
SPITZ, ERNESTINE GEORGE . . . . .	Boston . . . . .	16 Claremont Park.
SPRING, AMELIA . . . . .	Boston . . . . .	21 Worcester Sq.
TAGGARD, HATTIE SOPHIA . . . . .	Nashua, N. H. . . . .	88 Chandler St.
TOBIN, LOUISE MARIA . . . . .	S. Boston . . . . .	53 M St., S. B.
TUTTLE, ELIZA PINKHAM . . . . .	Hyde Park . . . . .	Hyde Park.
VAUGHAN, CLARA BLANCHE . . . . .	Hyde Park . . . . .	Hyde Park.
WETHERBEE, MATTIE . . . . .	Manchester . . . . .	Manchester.
WHEELER, BESSIE BALDWIN . . . . .	Dorchester . . . . .	741 Dudley St., D.
WILSON, FLORENCE ELMORE . . . . .	Charlestown . . . . .	Navy Yard, C.
WESSELHOEFT, FERDINANDA EMILIA . . . . .	Cambridge . . . . .	Cambridge.

Total, 61.







#### FELLOWS.

##### Savage Fellowship.

CHAMBERLAIN, HERBERT WILLIAM, B.Sc., Iowa State Agricultural College; S.B., Mass. Institute of Technology.

##### Swett Fellowship.

BERRY, CHARLES WILLIAM, S.B., Mass. Institute of Technology.

#### CANDIDATES FOR ADVANCED DEGREES.

BOURNE, FRANK AUGUSTUS, S.B., Mass. Institute of Technology.

CHAMBERLAIN, HERBERT WM., B.Sc., Iowa State Agricultural College; S.B., Mass. Institute of Technology.

DEFREN, GEORGE, S.B., Mass. Institute of Technology.

ALLEN, JEROME RIPLEY, A.B., Williams College.

AMES, BUTLER, U. S. Military Academy.

ANDERSON, ROBERT, Ph.B., Sheffield Scientific School.

BENSON, HOWARD JONATHAN, Ph.B., Colorado College.

BOARDMAN, HAROLD SHERBURNE, B.C.E., Maine State College.

BOWIE, AUGUSTUS JESSE, A.B., Harvard University.

BROWN, DICKSON QUEEN, A.B., College of New Jersey.

BROWN, EDWARD PERCY, Royal Military College.

BROWN, WARREN DAY, A.B., Amherst College.

CLARK, CHARLES BEVAN, A.B., Johns Hopkins University.

CLUETT, ALBERT EDMUND, A.B., Williams College.

CRANE, HENRY MIDDLEBROOK, S.B., Mass. Institute of Technology.

CURTIS, IDA MAYNARD, B.S., Cornell University.

CUTLER, JANE RUTH, A.B., Smith College.

DEAVITT, HENRY MCINTYRE, B.S., University of Vermont.

DENISON, EDWARD ELIAS, S.B., Mass. Institute of Technology.

DIAZ, JOSÉ YGNACIO, B.S., University of Venezuela.

DODGE, EDWIN SHERRILL, A.B., Harvard University.

DORRANCE, WILLIAM TULLY, A.B., Brown University.

\*ELDER, EDWIN AVERY, U. S. Naval Academy.

ELSON, ARTHUR, A.B., Harvard University.

EWING, MARY STEELE, A.M., Cumberland Free College; Ph.G., Mass. College of Pharmacy.

FERGUSON, FINLAY FORBES, A.B., B.S., Hampden-Sidney College.

\* Died December 5.

FOSTER, MARY LOUISE, A.B., Smith College.  
 FURBISH, FREDERIC, B.S., Iowa State University.  
 GARFIELD, ABRAM, A.B., Williams College.  
 GILMAN, JOHN EDWARD, JR., A.B., Harvard University.  
 GILMORE, JONATHAN MONROE, B.L., University of California.  
 GONZALEZ, RAFAEL SECUNDINO, B.A., Spanish National College.  
 GREEN, ANDREW HUGH, A.B., Harvard University.  
 GROVER, NATHAN CLIFFORD, B.C.E., Maine State College.  
 HALL, CHARLES HENRY, B.A., Yale University.  
 HAYWARD, NATHAN, A.B., Harvard University.  
 HEGHINIAN, GARABED GEORGE, A.B., Central Turkey College.  
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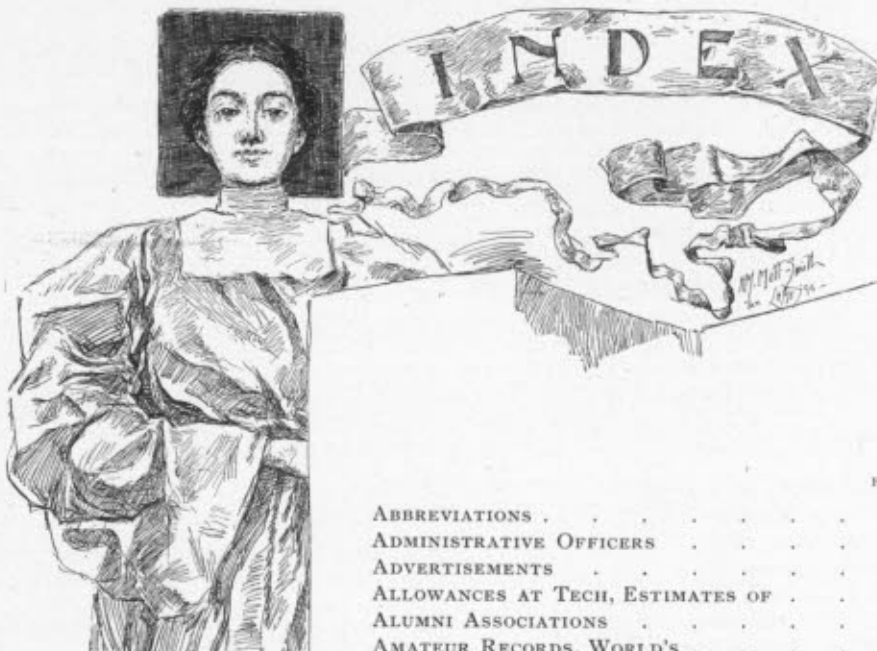


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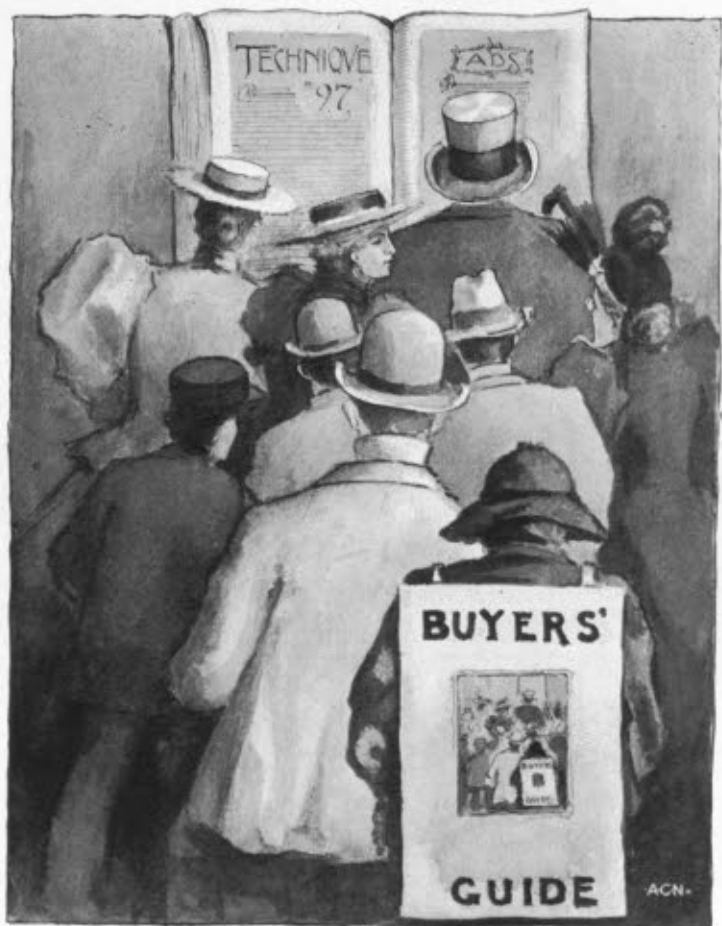
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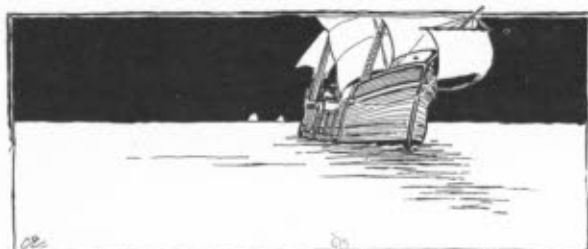




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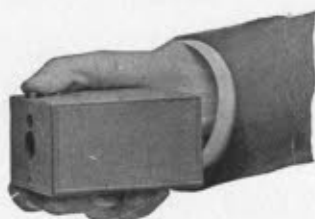
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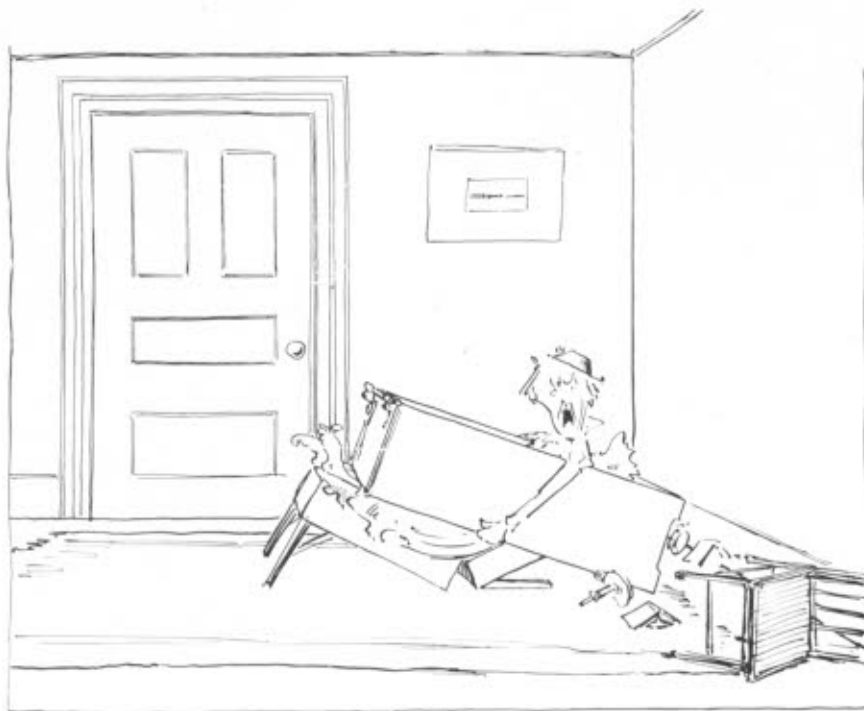
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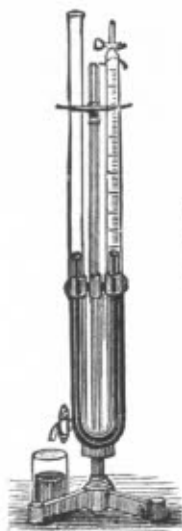
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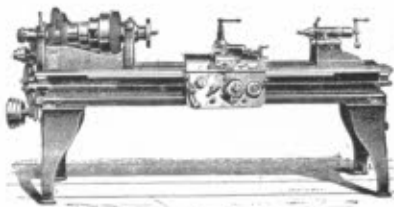
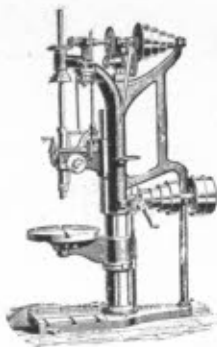
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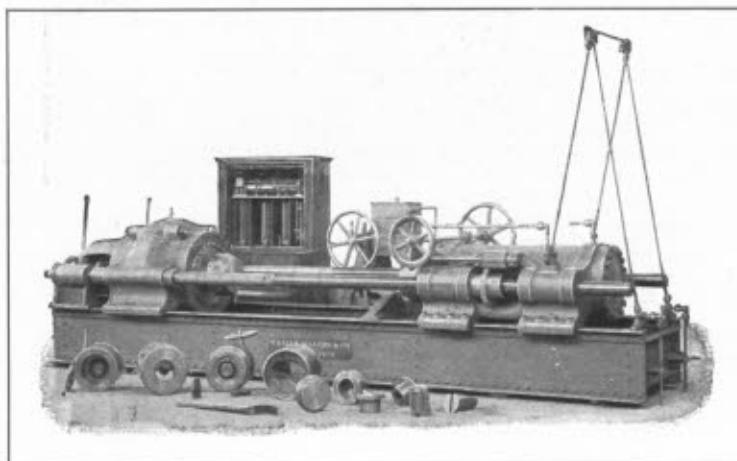
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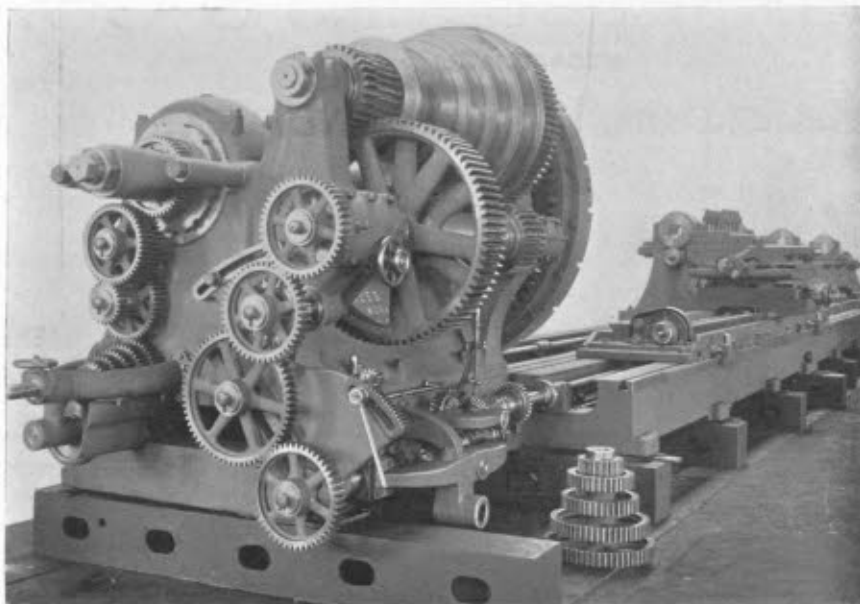
HAVE FURNISHED TESTING MACHINES . . .

To the Massachusetts Institute of Technology; Sibley College, Cornell University;  
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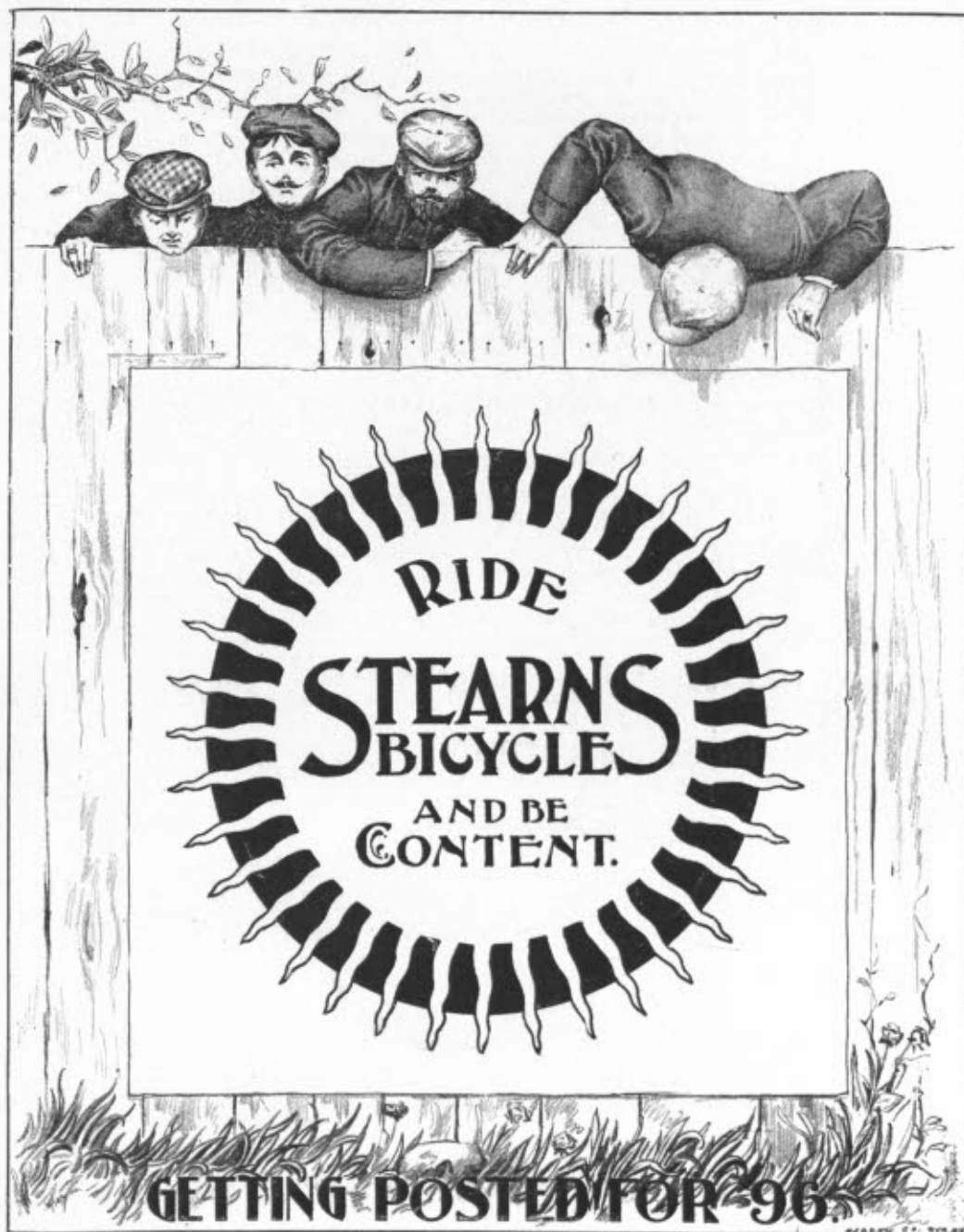
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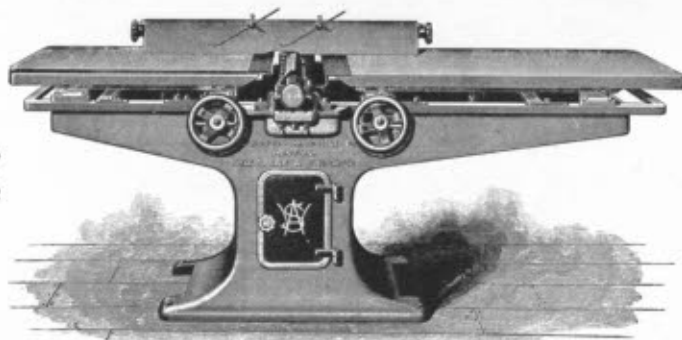
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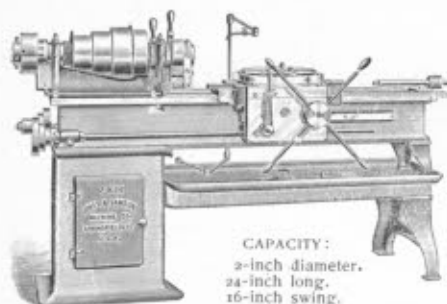
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—Editors Technique.

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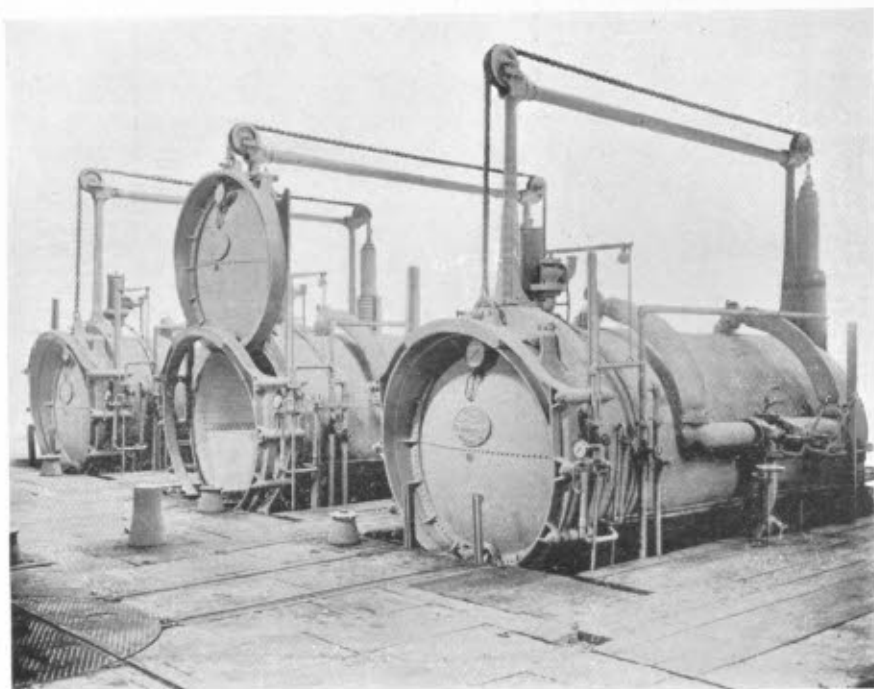
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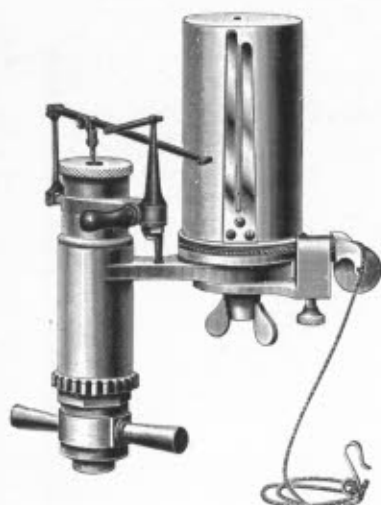
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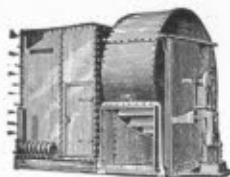
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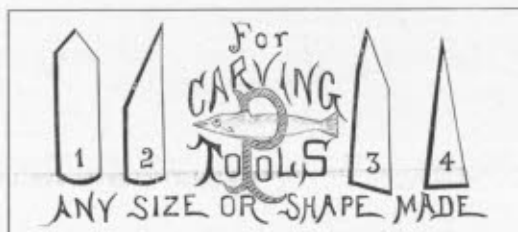
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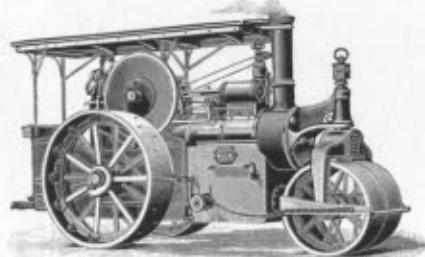


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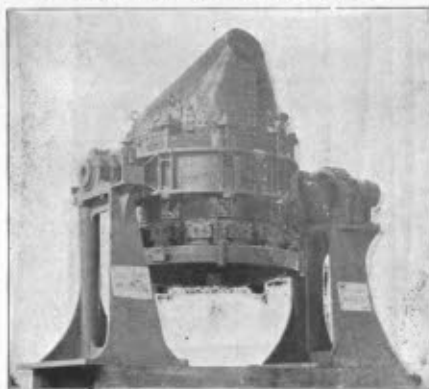
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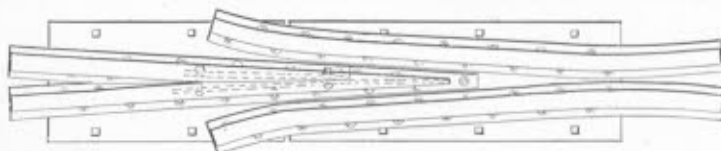
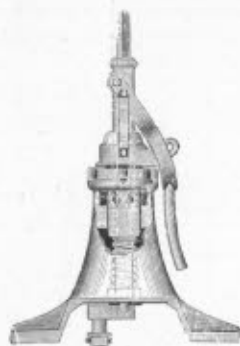
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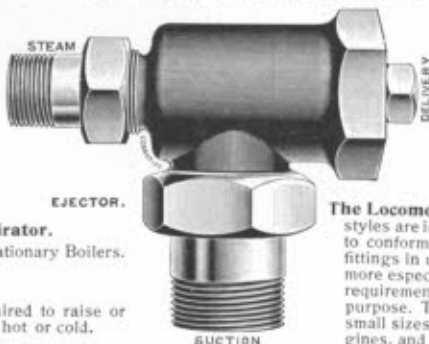
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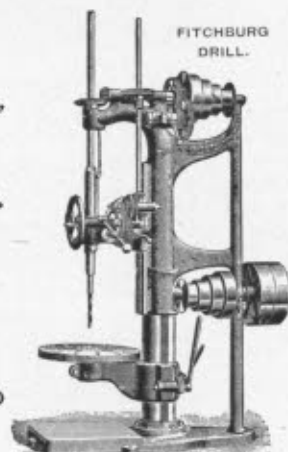
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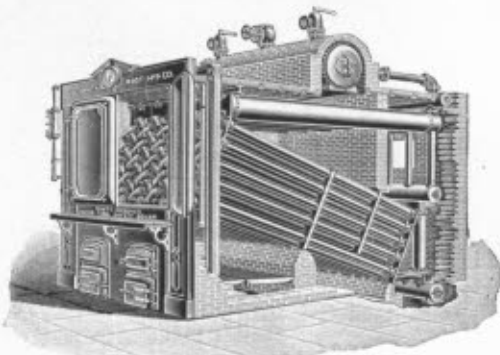
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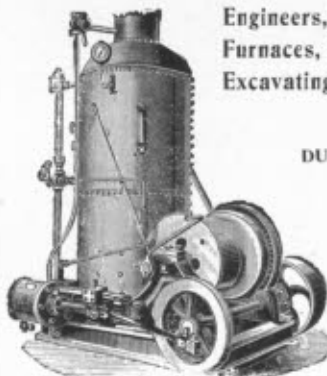
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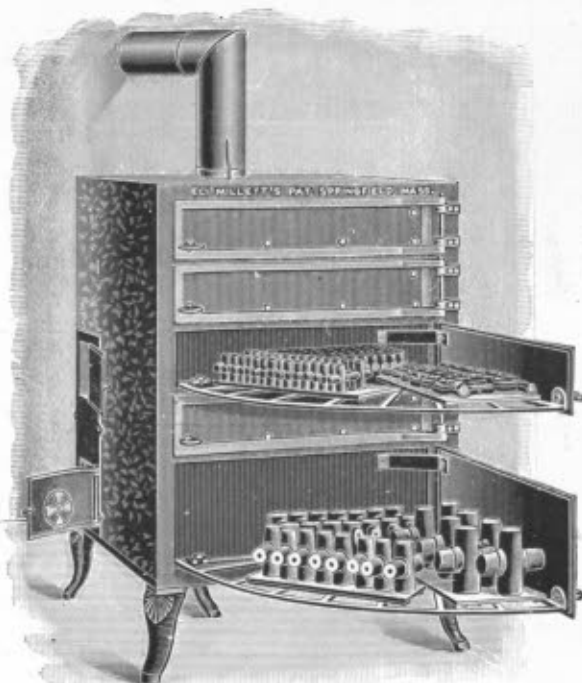
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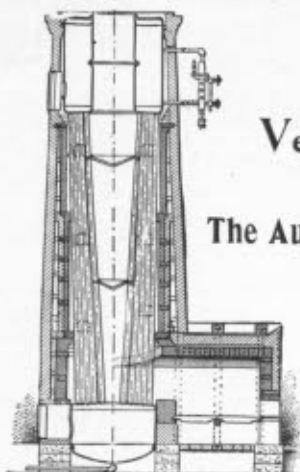
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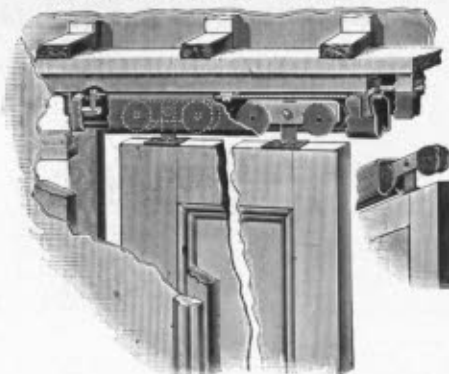
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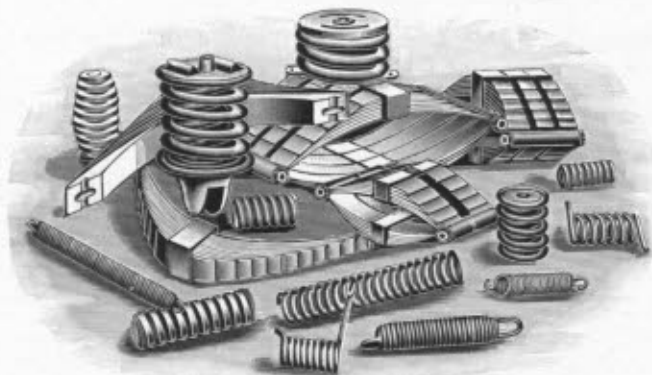


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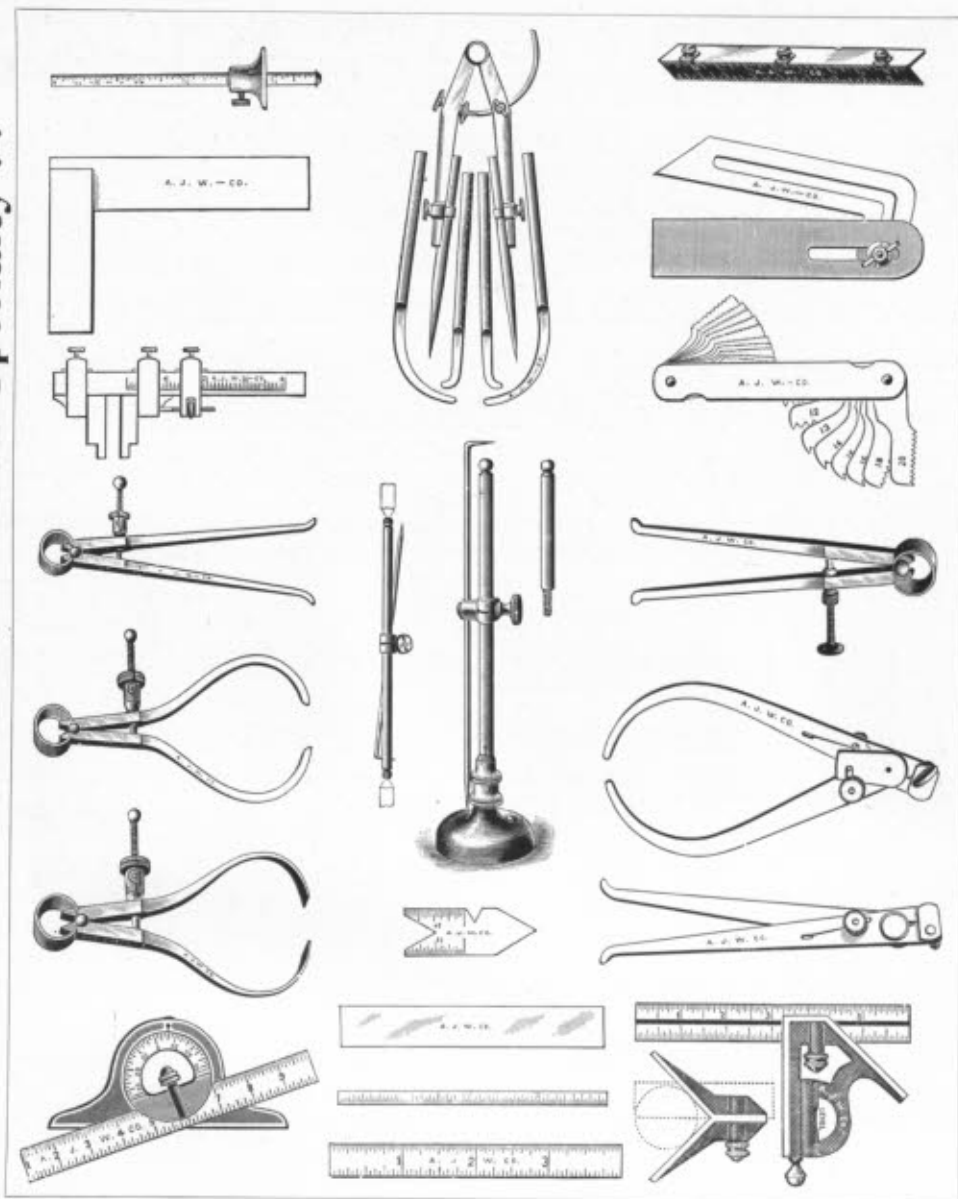
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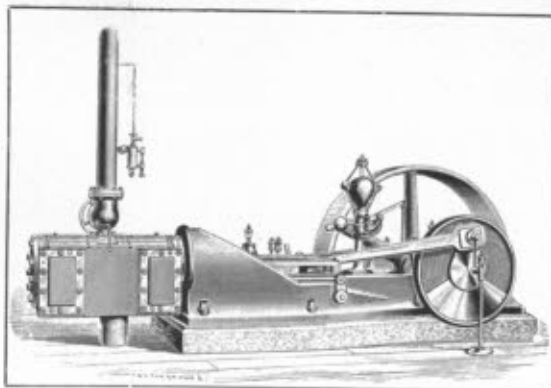
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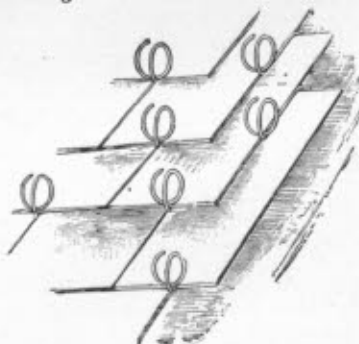
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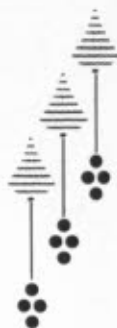
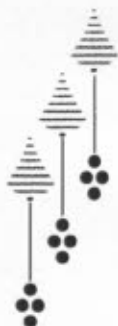
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