







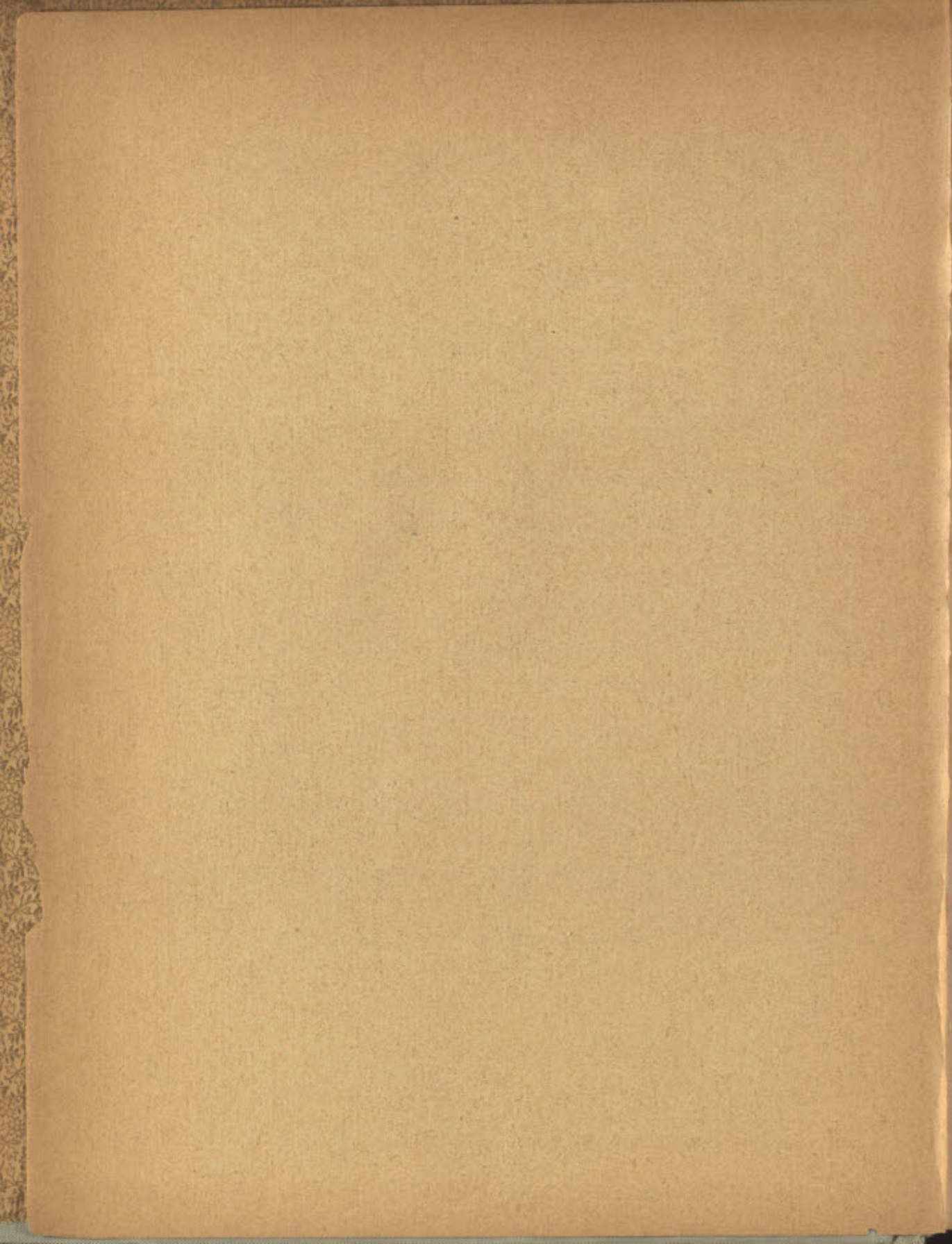


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Francis A. Walker









# Technique

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VOLUME X.

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Edited by members of the

Class of Ninety-Six

Massachusetts Institute of Technology

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Boston, Massachusetts



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PRINTED BY FRANK WOOD,  
352 WASHINGTON STREET, BOSTON, MASS.

To the  
Alumni of Technology

Upon whose life-work the fair fame of our College  
so largely rests

This Book is Dedicated.

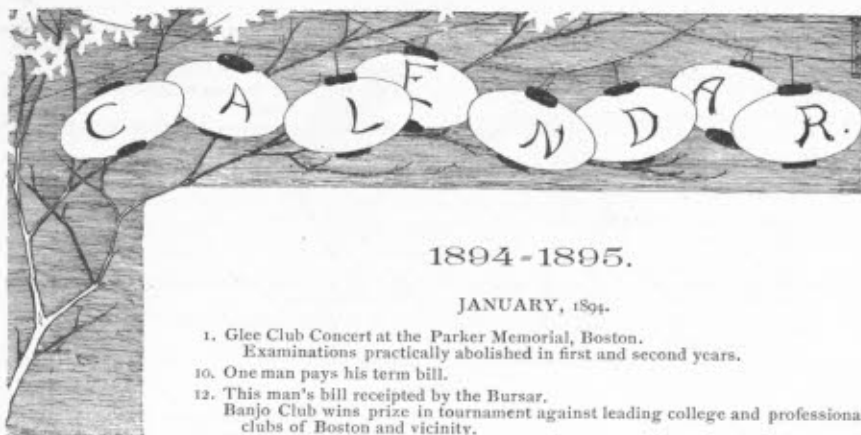


*And these shall be our*

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1894-1895.

#### JANUARY, 1894.

1. Glee Club Concert at the Parker Memorial, Boston.  
Examinations practically abolished in first and second years.
10. One man pays his term bill.
12. This man's bill receipted by the Bursar.  
Banjo Club wins prize in tournament against leading college and professional clubs of Boston and vicinity.
18. Annual Reunion of the Class of '74, University Club. Election of Officers for the year.
26. Class of '73 held its annual Dinner and Election of officers at Young's.
30. Second term 1893-94 began.

#### FEBRUARY.

2. Faculty meeting. Linus censured for flunking one hundred and sixty men. A committee authorized to investigate his methods of marking.
9. Ninety-Six Class Dinner at the Parker House, ninety-eight men present.
10. Annual Winter Meet of B. A. A. W. P. I. team defeated by Technology.
14. Exeter Club formed.
17. Closed Sparring Meeting of the M. I. T. A. C. Election of Ninety-Six Technique Electoral Committee.
19. Andover Club organized.
20. Senior ('94) Dinner at the Parker House. One hundred and six men present.
27. Maine Club organized.  
Annual Dinner and Election of Officers of the Class of '87, at Young's Hotel.

#### MARCH.

2. Election of Officers and Annual meeting of the M. I. T. Football Association.
3. Championship team racing at Worcester. Technology wins second place.
5. Competition in designs for a Technology pin opened.  
Technology orchestra formed.
10. New England Championship Games held under the auspices of the M. I. T. A. C. in South Armory.
17. Annual Dinner and Elections of the Class of '73 at the Parker House, Boston.  
Annual Meeting and Election of Officers of the M. I. T. A. C.
25. Junior Week begins.
26. The Photographic and Architectural Societies open their respective exhibits.
28. Annual Spring Concert of the Glee and Banjo Clubs in Huntington Hall.
29. Junior Assembly at Pierce Hall.  
Mrs. Walker's Reception to Assembly guests.  
Annual Dinner and Election of Officers of the Class of '88 at Young's.
30. French plays "L'Andalouse" and "L'Amour de L'Art" given by L'Avenir in Copley Hall.  
Gerald Morse attains renown in histrionic work.
31. Freshman Class Dinner at Young's. One hundred and twenty-seven men present.

#### APRIL.

1. General terror manifested by members of the Faculty and by Freshmen.  
E. P. M-s-n, '97, obliged to purchase a hat of large dimensions.
7. The identity of Gerald Morse is established.  
27. Annual dinner of the Class of '92 at Young's. Election of Officers.
18. The Ninety-Five Baseball team plays Williams, at Williamstown. Score, in favor of Williams, 0-0.
25. Remnants of Ninety-Five baseball team return to Boston.



## MAY.

5. Annual Sophomore-Freshman Baseball Game, '96 vs. '97. Ninety-Six wins, 20-4.
11. Class Championship Games, Holmes Field, Cambridge.
23. Inter-Collegiate Championships at Worcester. Technology victorious with 38 points; Brown second with 25½.
25. Reception and Dinner tendered to the Senior Class by Alumni Association.  
Meeting of Corporation of M. I. T.
26. Large consignment of demijohns and barrels clandestinely removed from Rogers basement.  
Glee Club Concert in Huntington Hall.
27. Baccalaureate Sermon by Bishop Lawrence, at Trinity Church.
28. Class-Day Exercises, Huntington Hall, at 2.30 P. M.  
Senior Assembly, Pierce Hall, at 8 P. M.
29. Graduating Exercises, Huntington Hall.  
President Walker's Reception in the President's Room.

## SEPTEMBER.

4. Riot in Baltimore. Mr. Passano becomes matrimonially inclined.
24. Recitations began. Freshmen alone were to be seen at this period.
25. PRETTY CO-ED SEEN COMING OUT OF WALKER BUILDING.
26. H. N. Dicks and H. W. Teller arrive, the one with, the other without. Great consternation among the faithful.

## OCTOBER.

2. Ninety-Six holds its first class meeting of the year in Room 11, Rogers.  
Voices tried for Glee Club in Y. M. C. A. Building, Boylston Street. Shops closed and Association Building deserted.
11. Thirty-third year of the Society of Arts. First regular meeting held in Room 22, Walker.  
An enthusiastic discussion takes place upon the Relation of the Bee to Honey.
13. Election of Ninety-Six Class Officers.  
St. Louis Club organized.
19. Ninety-Five elects Class Officers. Degrees given in wire-pulling.

## NOVEMBER.

12. The appearance of a small dog in telegraphy lecture brings about an unforeseen result.
27. M. I. T. Yacht Club organized.
- 28-30. Thanksgiving recess.

## DECEMBER.

4. Walker Club formed.
8. Annual Indoor Class Championships, Exeter Street Gymnasium. Ninety-Six wins with 42 points.
14. Senior Dinner at the Parker House, one hundred and fifteen men present.
19. Cincinnati Club organized.
- 24-26. Exercises suspended,—Christmas recess.
26. Annual Meeting and Dinner of the Alumni Association at Young's Hotel.
28. Annual Reunion and Dinner of the Class of '79 at the University Club.  
Annual Dinner and Election of Officers of the Class of '77 was held at Young's.

## JANUARY, 1895.

1. New Year's Day. Freshmen calls are made.
2. Mid-winter Concert of the Glee, Banjo and Mandolin Clubs in Huntington Hall. "Hannah," "The Old Woman," after touching and proper ceremonies, to which the Golden Eagle was duly a witness, were consigned to a well-earned grave.
7. Senior and Junior recitations cease. Grinding begins.
- 8-19. "Semies."
10. Sophs are allowed to prepare for exams.
12. Freshmen recitations are suspended.
- 19-29. Semi-annual recess.

## FEBRUARY.

7. Sherwood Club formed.
9. B. A. A. Games in Mechanic's Hall. Technology wins team race against Brown.
16. Junior Dinner at the Thorndike. Freshman dinner at Young's.

## MARCH.

9. Indoor Athletic Meeting under the auspices of the M. I. T. A. C. at Technology Gymnasium.

## APRIL.

14. Easter Sunday—Distinguished as the day upon which Junior Week begins.
15. German Plays by Der Deutsche Verein in Copley Hall.  
Photographic and Architectural Societies open exhibits in the Architectural Building.
15. TECHNIQUE, Volume X., issued.
16. Junior Promenade, Pierce Hall.
17. Annual Spring Concert of the Glee and Banjo Clubs in Huntington Hall.
18. French Plays by L'Avenir, in Copley Hall.



THE Ninety-Six **TECHNIQUE** gives you its hearty greeting. The labors of the editors upon this volume have been earnest and conscientious, as well as enjoyable, and they trust that they have produced a book which will be interesting to its friends and not unworthy of **Technology**.

Realizing that **Technology** and her alumni owe so much one to the other, that the success of **Technology** is so bound up with that of her graduates, we have, in line with our dedication of this book, presented, in a series of brief sketches, the lives of some of our more prominent alumni, in the hope that they may prove profitable and not uninteresting reading.

It is with some concern that we have viewed the inevitable increase in size of this book over that of the preceding volumes. This increase is attributable partly to the reinstatement of the Course Sketches, which have always seemed to occupy a distinct position in the Annual; but mainly to a general expansion along certain lines, notably in the department of Athletics, which involved improvements of such obvious importance that amplification seemed highly desirable, and the consequent increase in the size of the book only of comparatively slight moment.

To all who have so kindly aided us we desire to express our thanks. To Mr. E. B. Bird, in particular, is due grateful acknowledgment of his assistance in artistic work and criticism.

And now, without further revealing what the book has in store, we will gracefully withdraw, leaving **TECHNIQUE** to speak for itself.



## Historical Sketch.



TECHNIQUE, the college annual of Technology, has exhibited a remarkable growth since its foundation in 1885 by the Class of Eighty-Seven. This increase has been not only one in size, but in scope and intrinsic excellence as well, till to-day it is probably safe to say that TECHNIQUE is the foremost college annual of the country. It is interesting in this connection to quote from the preface to the first volume, which nearly ten years ago made its modest appearance on the stage of the college world. "If each class," says the preface, "will make some improvement, in a few years no annual can compare with our TECHNIQUE." These words seem to-day almost prophetic. The hoped-for improvement by each class has become a reality; each succeeding TECHNIQUE has marked a distinct upward step in the merit and value of the volume; and to-day Technology can point with pride to its annual, which in make-up, beauty of illustration, piquancy, and breadth, has now become the model which other annuals strive to emulate.

Eighty-Seven's TECHNIQUE was a modest effort. Almost the sole illustrations were small vignettes of the buildings, with here and there a solitary sketch which served but to render the scarcity of illustrations more conspicuous. Beyond brief class histories, almost no attempt at literary work



was attempted, and the department of grinds and quotations, now so prominent a feature of the book, was in a decidedly undeveloped condition. A list of the Fraternities and Societies of Technology, together with tables showing the course of college athletics, were, beyond the features mentioned, all that could differentiate Volume I. of the *TECHNIQUE* from the Institute catalogue. However, considering the difficulties attending work of this nature, a result as successful as that attained could not be regarded as anything but creditable.

About a year later, in December, 1886, appeared the *TECHNIQUE* of the Class of Eighty-Eight,—a larger and more pretentious book than its predecessor. In this volume a goodly increase in the number and excellence of drawings was to be noted, as well as the fact that the artists had become somewhat more confident of their powers, and were consequently emboldened to attempt more pretentious work. The grinds were made a prominent feature of the book, and were well abreast of the best efforts of later *TECHNIQUES* in spice and piquancy. Eighty-Eight had issued an entertaining and valuable book, and set a good pace for succeeding boards to follow.

The Eighty-Nine *TECHNIQUE*, which appeared at the usual time, showed a marked improvement along many lines. The Course sketches, which Eighty-Eight had introduced, were repeated by Eighty-Nine, and formed a most attractive part of the book. The department of grinds, as well as that of verse, showed also a gratifying growth; while the work of the artistic department exhibited a great increase in both number and excellence of the drawings.

The *TECHNIQUE* of the Class of Ninety made its appearance a year later at the customary time. This volume, while perhaps not exhibiting so marked an increase in excellence over the books of other years as had the preceding volumes, nevertheless showed the fruits of experience in every department, for a substantial growth along all lines was everywhere evident. The grinds and artistic work showed further increase in merit, and the entire book reflected much credit upon its editors and upon the class.

The Ninety-One *TECHNIQUE* appeared a little more than a year after its predecessor, the increased size of the book having made such demands upon the time of the editors that an earlier date of publication was impossible. *TECHNIQUE* had now become a firm favorite, and the neat and substantial cloth binding in which it now appeared gave unmistakable evidence of its popularity. The success of this volume was largely due to the clever work of Mr. Bird, who was one of the artistic staff of that year's board, and whose familiar style is now well known. A considerable increase in the number of fraternities and societies was chronicled by this *TECHNIQUE*,

showing a most welcome growth in that social spirit of college life which Technology is slowly acquiring and which she so much needs.

Ninety-Two was the next class which issued the *TECHNIQUE*. The increase in excellence of Ninety-Two's book over its predecessors was truly astonishing. Their *TECHNIQUE* was by all odds the best hitherto published, there being scarcely anything to condemn in the entire production. The book was well bound and attractively put together; the illustrations were numerous, and far ahead of those of previous years in choice of subject and in rendering; the grinds were made a special feature, and the department was competently handled. A breezy air was suffused through the entire book, and, like the traditional thing of beauty, it seemed to possess all the elements of perennial joy.

In comparison with Ninety-Two's *TECHNIQUE*, that of Ninety-Three, which followed it a year later, shone but dimly. The purpose of the editors was evidently to restrict the scope of the book,—to make it more a book of reference for almost purely statistical information rather than anything else, and in this respect they succeeded admirably. The restriction of the grind and quotation departments, and the subordination of artistic work, gave the book a somewhat lifeless air, though doubtless it entirely fulfilled the purpose of its editors.

The *TECHNIQUE* of the Class of Ninety-Four was a creditable production, for in this book we see a return to the general lines of excellence which Ninety-Three had abandoned. A satisfactory grind department, general excellence in the literary matter, and artistic work of merit, notably the fine pen-and-inks of Mr. Mott-Smith, served to make this volume a worthy addition to the list of *TECHNIQUES* gone before.

The *TECHNIQUE* of the Class of Ninety-Five, which appeared just a year ago, is too well known to need detailed description here. A large and successful collection of grinds, the general merit of the literary department, and especially the noteworthy excellence of the artistic work, formed the principal elements of its success, and did much to render more secure the reputation of *TECHNIQUE*.

The growth of *TECHNIQUE* from so modest a beginning in so short a time may be called little short of phenomenal. Certain it is that the succeeding boards have noted with pride the constantly upward trend of excellence in the successive volumes. No less certain is it that the editors of this volume have labored hard to keep *TECHNIQUE* to the high standard which it has now attained. Their sincere wish is that *TECHNIQUE* may survive and grow for many years to come, ever a credit to its Class and to Technology.



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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; 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.

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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.

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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, 1881-91; Professor of Geology, Wellesley College, 1891; 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.

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Author of Course in Elementary Physics (1873), Notes of Lectures on Light in its Relations to Color (1876), Notes on Mechanics (1884), Notes on Optics (1884), and of many original scientific papers on acoustics, electricity, and other branches of physics, chiefly published in the Proceedings of American Academy of Arts and Sciences.

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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.

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Student in Freiberg, Saxony, Mining School and University of Heidelberg, 1865-68; Instructor in Metallurgy, Harvard University, 1869-70; Professor of Analytical Chemistry, Lafayette College, 1874-81; Secretary and Editor of the Transactions of American Institute Mining Engineers, 1871-84; Professor of Analytical Chemistry, Massachusetts Institute of Technology from 1885, Chemist State Board of Health from 1887.

Author of Papers in Metallurgical and Sanitary Chemistry in the Transactions of the American Institute of Mining Engineers, Proceedings of the Society of Arts, Technology Quarterly, Journal of the Boston Society of Civil Engineers, Journal of the New England Water Works Association, and in the Reports of the Massachusetts State Board of Health.

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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

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

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Author of *A Monograph on the Study of Modern Languages*, *La Parole Française* (in collaboration with Dr. L. Sauvern), *Das Deutsche Buch* (in collaboration with J. Schrakamp), *Leander's Traumereien* (edited and annotated), *Heine's Harzreise* (edited and annotated), *Memoirs 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.

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

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



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

Author of *A Syllabus on Political History* since 1815 (1887), *Review of Emigration and Immigration*, by Richmond Mayo-Smith (1890), *Nativity of New England* (1892), *Relation of Social Reforms* (1892), *Syllabus of Lectures on Economic Questions of Commerce* (1892), etc.

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

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

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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.

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Mechanical Engineer for 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).

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

S.B., M. I. T., 1884; PH.D., Erlangen, 1889.



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.

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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.

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JOHN BIGELOW, JR., CAPT. UNITED STATES CAVALRY,  
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With Tenth Cavalry in Texas, 1877-79, Instructor in Modern Languages, West Point, 1879-94; Served under Generals Cook 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.

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D. DESPRADALLE, *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.

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Graduate Student, Massachusetts Institute of Technology, 1878-9; 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.

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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 Earthworks, Roads and Road Building, Railroad Building with Reference to Economy in Operating, articles in Engineering Record, Railroad Gazette, Technology Quarterly, etc.

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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.

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E. M., Met. E., Prussian School of Mines, Clausthal, 1877; PH.D., Ohio University, 1889.



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.

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Author of Geology of Eastern Massachusetts, Origin of Continents, Geology of Frenchman's Bay, Maine, Dynamical Geology and Petrography, Physical History of the Boston Basin, Geology of the Outer Islands of Boston Harbor, and numerous other papers, published in Proceedings of the Boston Society of Natural History, the American Journal Science, Geological Magazine, Technology Quarterly, etc.

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Chief Clerk Car Shops, P. C. & St. L. R. R., 1879-82; in charge of Waterworks  
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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  
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Postgraduate student in Sanskrit and Germanic Philology and Instructor in German, Harvard University, 1871-74; Instructor in French, Sanskrit, and Anglo-Saxon, Boston University, 1874-83; Lecturer 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 from 1891.

Author of *The Great Epics of Mediæval 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.

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

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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.

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FRANK VOGEL, A.M., A.B., *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.

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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.

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FREDERICK H. BAILEY, A.M., A.B., *Assistant Professor of Mathematics.*  
Harvard University, '86; Ph. B. K.

A.B., Harvard University, 1887; A.M., Harvard University, 1889.



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

Residence, 75 Wendell Street.

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

A.B., Harvard University, 1887; A.M., Harvard University, 1888; Fellow of  
Harvard University studying at Berlin and Paris, 1889-91.



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

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.

FRED L. BARDWELL, S.B., *Assistant Professor in General Chemistry.*  
University of Minnesota, 1881; 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.*  
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Assistant in General and Sanitary Chemistry, Massachusetts Institute of Technology, 1884-86; Instructor, 1887-88; Water Analyst, State Board of Health, 1888; Instructor in Gas Analysis, Massachusetts Institute of Technology, 1890-94; Assistant Professor from 1894.

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

Residence, Canton.

ARTHUR A. NOYES, S.M., *Assistant Professor in Organic Chemistry.*  
M. I. T., '86, V.

Ph.D., Leipsic, 1890.



Instructor, 1890-93; Assistant Professor from 1893.

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

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## Instructors.

- HENRY K. BURRISON, S.B. . . . . *Instructor in Mechanical Drawing.*  
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- ELLEN H. RICHARDS, A.M., S.B. . . . . *Instructor in Sanitary Chemistry.*  
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Amherst, '89, Heidelberg, '93; X. Φ.  
Residence, Hotel Oxford.



LESLIE R. MOORE, S.B. M. I. T., '94, V.	Assistant in Industrial Chemistry. Residence, Newton.
JOSEPH W. PHELAN, S.B. M. I. T., '94, V.	Assistant in General Chemistry. Residence, 63 Lexington Street, East Boston.
WALTER E. PIPER, S.B. M. I. T., '94, V.	Assistant in General Chemistry. Residence, Hyde Park.
SAMUEL G. REED, S.B. M. I. T., '94, II.	Assistant in Mechanical Engineering. Residence, Rockland.
THOMAS G. RICHARDS, S.B. M. I. T., '94, II.	Assistant in Mechanical Engineering. Residence, 36 Lambert Street, Roxbury.
W. FELTON BROWN	Assistant in Freehand Drawing. Residence, 33 Glenwood Street, 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.
EDWARD P. HUTCHINSON	Assistant in Machine Tool Work. Residence, Danvers Centre.
MINOT A. BRIDGHAM	Assistant in Woodwork. Residence, Arlington Heights.
EVERETT H. MASTERS	Assistant in Forging. Residence, 20 Rockville Park, Roxbury.

Instructor in Gymnastics.

HERMAN BOOS.

Teachers and Lecturers for the  
Year 1894-95.

TRUMAN H. BARTLETT . . . . .	<i>On Modeling.</i>
GEORGE W. BLODGETT, S.B.,	<i>on the Applications of Electricity to Railway Working.</i>
SEVERANCE BURRAGE, S.B. .	<i>On the Microscopic Examination of Water Supplies.</i>
WALTER C. FISH, S.B. .	<i>On Construction and Applications of Electromotors.</i>
J. WALTER FEWKES, PH.D. . . . .	<i>On Anthropology.</i>
JOHN R. FREEMAN, S.B.,	<i>on the Hydraulics of Fire Protection, and on Fireproof Construction.</i>
HOLLIS FRENCH, S.B. .	<i>On Electric Engineering Practice and Specifications.</i>
GEORGE W. FULLER, S.B. .	<i>On Bacteriology of Water and Sewage Purification.</i>
DAVID A. GREGG . . . . .	<i>On Pen and Ink Drawing.</i>
HAMMOND V. HAYES, PH.D. . . . .	<i>On Telephone Engineering.</i>
HENRY M. HOWE, A.M., S.B. . . . .	<i>On Metallurgy.</i>
CHARLES D. JENKINS, S.B. .	<i>On Illuminating Gas, and on Pottery and Tiles.</i>
ARTHUR D. LITTLE . . . . .	<i>On Paper.</i>
SAMUEL W. MEAD . . . . .	<i>On Architectural Design.</i>
WEBSTER NORRIS, S.B. . . . .	<i>On Rubber.</i>
HORACE F. PARSHALL, S.B. . . . .	<i>On the Design of Dynamo Machines.</i>
ODIN B. ROBERTS, S.B., A.M., LL.B.,	<i>on the Nature and Function of Patents for Inventions.</i>
LOUIS J. SCHILLER . . . . .	<i>On Sugar and Sugar Refining.</i>
FRANK G. STANTIAL, S.B. . . . .	<i>On Sulphuric Acid.</i>
ELIHU THOMSON . . . . .	<i>On Recent Developments in Applied Electricity.</i>
ROSS TURNER . . . . .	<i>On Water Color.</i>
C. HOWARD WALKER . . . . .	<i>On the History of Ornament.</i>



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WEBSTER WELLS.	FRANK VOGEL.
CECIL H. PEABODY.	WILLIAM L. PUFFER.
ARLO BATES.	FREDERICK H. BAILEY.
JOHN BIGELOW, JR.	CHARLES F. A. CURRIER.
D. DESPRADELLE.	FRED L. BARDWELL.
PETER SCHWAMB.	AUGUSTUS H. GILL.

ARTHUR A. NOYES.

## Representative Alumni.



THIRTY years of history! Truly a brief period, it will be said, in which to rear an institution of so vast an import in the world of modern science and of practical technology; to graduate with precise regularity with the passage of each portion which time has decreed a year, the constantly enlarging classes; and then at length to invite the attention of a discriminating, possibly, in many ways, a disinterested world, to that which these men have been enabled to accomplish in the short time allotted to them. Yet this is precisely our purpose in presenting a sketch of the work of a score of alumni, whose efforts not merely does Technology proudly acknowledge, but even the cynic must applaud. With no desire to distinguish between success and failure; with no attempt to choose that one upon whom Fortune has smiled, rather than the toiler who daily fulfills his task, though it be in a humble sphere, yet requires the trained intellect and the skillful, careful hand; nor yet to separate the wise from those who have in the beginning been taught by mistakes,—it is our aim to demonstrate the results which are the outcome of a broad, thorough, technical education, coupled here, perhaps, with a determined will, there indeed with a self-culture, with an innate refinement, with those qualities which command the respect of companions; in every case with an earnest and sincere endeavor. For Technology, thirty years, brief as they have seemed, short as the time has actually been, have been wholly sufficient to build, upon a stanch foundation, a structure whose component parts have well served a common end, to differentiate and perfect, to a very considerable degree, the mental capacities of a large number of men; ample also, it is true, to develop a reputation which has justly been called world-wide.

In so far as it is the training which makes and marks the man, so it is the man who, in a graduated condition, through his life work, establishes the standard and strengthens the fame of his college. Peculiarly truthful is the statement when applied to the scientific school. From the very nature of his study, although made along certain more or less rigid lines leading to a definite and selective training, the graduate from a technological institution must evince an adaptability to a wide range of professional undertakings, which with each decade becomes more varied: scarcely is this requirement



demand of one who enters the world of work with a classical education. In brief, we may draw this distinction: the graduate from the scientific college must, without delay, begin upon a definite professional career; the graduate with academic training must, in a general way, learn or adopt a profession, create a business enterprise or other field of labor, after Commencement. Under such conditions one may readily comprehend how closely related is the accurate work, the sagacious solution of scientific problems by her graduates, to the fair fame which Technology has attained. She has not trained for individual work. A large number of men have been sent into the world, each well fitted, each well able to fulfill the duties with which he is intrusted. Her reputation has been built up by the absolute dependence which could and will continue to be placed upon the great proportion of men who graduate. The main work of the world is scarcely accomplished by individual effort, by the greater lights who shine above their fellows, but by the precise and reliable work of each man in his place, whatever the station.

Much might be said in anticipation of the sketches which follow: Although nearly five thousand men have in the past been connected with Technology for a longer or shorter period, only one fourth of that number have received degrees. In the earlier years of our history this ratio of Special to Regular was a large one; to-day a reverse has become true, and our statistics will show that only a comparatively small percentage of our enrollment are taking elective courses. Not a few of these men have maintained a remarkable record; positions of trust and of honor, in which they have well acquitted themselves, have been truly earned. Especially in the department of Architecture only a small proportion of students during the Seventies took the regular course leading to a degree, but merely a special training of two years which had been carefully designed to aid those men in architects' offices who desired to acquire the foundation without the detail. With their labors we regret that the province of our sketch is too limited to deal. More than a score of men from the Faculty under whose training the student of to-day enters the professional world, have returned to Technology as graduates of former classes. To the *TECHNIQUE* in previous years we may turn for a tribute to the work which these men have accomplished. The courses in General Studies, IX., Chemical Engineering, X., Sanitary Engineering, XI., Geology, XII., and Naval Architecture, XIII., are of too recent formation to be represented by distinguished alumni; of too late origin, indeed, to prove, as yet, their value as distinctive lines of education.

Feeling that a simple story of the work of those whom we have been proud to call Representative Alumni will be the most effective, we have left all comment to the reader, and have offered but an outline of those posi-

tions which have been attained, those efforts which have been crowned with more than partial success. In presenting so small a number of men from among the multitude, it must be remembered that it is not because they alone have been deemed successful, but because it has been the purpose to choose varied undertakings, differing enterprises, which will demonstrate, as we have said, more readily than in any other way, the breadth and the scope of the training at our Technology.

The career of Mr. Howard A. Carson, one of our oldest alumni, a member of the second class to graduate from Technology, offers a deal of encouragement to the student of Engineering. Beginning with a moderate position, he has risen constantly from one undertaking to another more prominent and more exacting. He graduated from Course I., in the Class of '69, and for four years was engaged in miscellaneous engineering work. Between 1873 and 1877, as Assistant Engineer, he took charge of the Providence system of sewers, and for six months after was occupied at Brookline in the construction of the main sewer of that town. At this period, feeling the necessity for a study of European methods, a year was spent in careful work of investigation of the sewerage systems on the Continent and in England. His return to Boston marks the beginning of a series of important engineering operations with which Mr. Carson's name is intimately associated. The vast system of intercepting and drainage sewers for the city was designed and constructed, the Metropolitan Commission was incorporated, and Mr. Carson was placed in entire control. In the completion of these gigantic undertakings, and as Chief Engineer of the new Boston Transit Commission, up to the present time, his work has been placed.

Few graduates in the Seventies have won success more readily than Samuel M. Felton, Course I., Class of '73. Immediately after Commencement, Mr. Felton was appointed Chief Engineer of the Chester and Delaware Railroad, at that time a branch of the Philadelphia and Reading Road; in August of 1874 he became General Superintendent of the Pittsburg, Cincinnati, and St. Louis Road between Pittsburg and Columbus; and after seven years his jurisdiction was extended to embrace the lines to Cincinnati. In January of 1882, Mr. Felton was appointed General Manager of the New York and New England Railroad, in which capacity he served two years, at the end of that time making another advance in becoming Assistant to the President of the New York, Lake Erie and Western Road, in charge of the Western properties. From this position he soon became General Manager; in 1885 was elected Vice

President, and later in the same year first Vice President, controlling the traffic and operation. On November 21, 1890, Mr. Felton was elected President of the East Tennessee, Virginia and Georgia Railroad Company; the following month, President of the Cincinnati, New Orleans and Texas Pacific Road; and in the same month, also, President of the Alabama Great Southern Railroad. At present he is Acting President and Receiver of the Cincinnati, New Orleans and Texas Pacific Railroad, and President of the Alabama Great Southern Railroad.

In Mr. George W. Kittredge, of the Class of '77, we have another example of the successful graduate along the line of railroad engineering. Until the spring of 1880 Mr. Kittredge was engaged in varied engineering operations in Eastern Massachusetts, for a year of that time being connected with the South Boston Flats Improvement, under the State Commissioners. In April, 1880, he accepted a position with the Pittsburgh, Cincinnati and St. Louis Railroad, with which he remained ten years in charge of the Maintenance of Way Department on several divisions of the road successively. At the end of this period Mr. Kittredge became Assistant Chief Engineer of the Cleveland, Cincinnati, Chicago and St. Louis Railroad; in six months he was appointed Engineer of the Maintenance of Way, with jurisdiction over the divisions east of Indianapolis; in six months again he was made Chief Engineer of the road,—a position which he now holds. As Chief Engineer of this system of roads, he has charge of the maintenance of about eighteen hundred miles of main track, with corresponding second tracks, sidings, and terminals, and in addition has been the director of all improvements and enlargements which have been undertaken since his appointment. The cost of the work thus placed in the hands of Mr. Kittredge amounted, during the past fiscal year, to four millions of dollars, and the average number of men employed in this department, of which he is the head, was about three thousand. Mr Kittredge is a member of the American Society of Civil Engineers, and a prominent member of the Engineers' Club of Cincinnati.

Mr. Arthur L. Plimpton has become so widely known in the engineering circles of Boston, that a short account of his work should scarcely be omitted. For the first seven years after graduation he served on the engineering corps organized to plan and lay out the great system of the Metropolitan Sewage Commission. While working largely under the direction of others, he was given, nevertheless, immediate control of several important and difficult undertakings, including an investigation of the nature of the substrata of Moon Island Bay by repeated borings, the result of which made a

complete change in the plan of construction, and also the direction of the system of triangulation employed to determine the length of the bay tunnel. In 1886 his attention was directed to Street Railway Engineering, and the following year he took charge of the entire system of projected lines of the West End Company. In the consolidation of the existing Boston roads and the transfer to electric lines, Mr. Plimpton became first Principal Assistant Engineer, and finally Chief Engineer, of the Civil Department. In January, 1888, he was chosen one of a party of four to study the cable systems in the United States, in view of adopting a similar system for Boston. It was determined at length, however, to construct an electric road. The system as completed is one of the largest in the world, having a total length of two hundred and seventy miles of single track, with a passage of two thousand six hundred cars daily over certain portions. In reconstructing the line the question of maintenance has required a much larger share of attention than was anticipated. Inasmuch as the system is exceedingly complicated, owing to the irregularities of the streets, it has presented problems of difficult design which have seldom elsewhere been encountered.

We quote, from a somewhat extended article in a Boston paper of recent date, a few lines in regard to the immediate work of Mr. Carter, another graduate of Course I.: "Supt. H. H. Carter, who has also just been chosen consulting engineer for the subway, is a Tech. graduate of the Class of '77, a member of the American Society of Civil Engineers, Vice President of the Boston Society of Civil Engineers, and a Director of the Massachusetts Highway Association. He has had extensive experience in the construction of sewerage, water, and other public works of the city of Boston; as Engineer of Boston main drainage works, 1877-1883, 1889-1891, and on Boston Water Works, 1883-1887; as Chief Engineer of the Sewer Department, 1887-1889; and now as Superintendent of Streets. He has had from 1890-1894 the sole charge of the streets, bridges, and sewers, and of the street cleaning and sanitary works of the city of Boston. He is also, by virtue of an act of the Legislature, the commissioner for the city of Boston to have the charge of the Boston and Cambridge bridges. He is a busy man,—there is no busier at City Hall,—but his articles and essays on works of engineering have been published in many scientific journals, and have gained for him an established reputation, apart from his work as an official. It is impossible to see where he can get any leisure, as he is also a member of various social clubs, such as the Puritan Club, the Algonquin Club, the Boston Athletic Club, the Boston Club, and the Massachusetts Yacht Club."

Mr. Cyrus C. Babb, Course I., of the Class of '90, entered upon Government service almost immediately after Commencement. His first

work was undertaken as Assistant Hydrographer in the United States Geological Survey,—a department with which he was connected for a considerable period both as Topographer and Assistant Geologist. The summer of '92 was spent in field work through portions of Nebraska, Wyoming, and Colorado, making topographical maps and taking general note of the conditions of irrigation in this region. The following summer and fall were occupied in geological work through Georgia, Alabama, and Tennessee. Mr. Babb has made a specialty of the investigation of the water supply of the United States, and a number of articles thereupon have appeared in the various scientific magazines, notably in the "Transactions of the American Society of Civil Engineers." In the fall of 1893 he received the appointment of Secretary to the National Geographic Society,—a position which entails the editing of the *National Geographic Magazine*.

Mr. Charles T. Main, a graduate of Course II., Class of '76, has for some time past been known to the professional men of Boston as a specialist in mechanical and mill engineering work. For three years after graduation he served as an assistant at Technology, in the Course II. laboratory. In the fall of 1879 he became draughtsman to the Manchester Mills, and during two years, a period in which a large amount of construction work was done, and additions to the power plant made, he was enabled to gain a peculiarly valuable experience. In January, 1881, Mr. Main was appointed engineer in charge of the Lower Pacific Mills, at Lawrence, Massachusetts,—a position which he held for five years,—afterward becoming Assistant Superintendent, and finally Superintendent. During the eleven years in which Mr. Main was connected with this company he was instrumental in rebuilding and reorganizing the Mills, and in effecting an installation of power plants for steam and water, together with other decided improvements. Since 1891, Mr. Main has practiced his profession in Boston as an expert in mill work.

Mr. A. Lawrence Rotch, Course II., Class of '84, one of our younger Alumni, has been enabled through a decade of active service to accomplish much toward the development of meteorological study in the United States. In the autumn of 1884 he began the erection of a private meteorological observatory on Blue Hill, the highest point in the vicinity of Boston, well adapted to the study of atmospheric phenomena. The observatory was early equipped with self-recording instruments, and has become one of the most complete meteorological observatories in the world. The observations have been published in detail in the *Annals of the Harvard College Observatory*, and furnish the most comprehensive set of hourly values and



cloud observations in America. Mr. Rotch has been instrumental in beginning and urging the most notable recent undertakings of the United States Weather Service,—the cyclostyle weather map, in connection with Mr. O. B. Cole; and local weather forecasting, with the aid of Mr. H. H. Clayton, of the Blue Hill observatory. In 1885, Mr. Rotch visited most of the mountain meteorological stations of Europe and America, and during subsequent years all of them, publishing an account in the *American Meteorological Journal*, of which he became an associate editor in 1886. Mr. Rotch observed the total solar eclipse of 1887 in Russia, with Messrs. Köppen and Upton, and again coöperated with the latter in a study of the meteorological phenomena attending the eclipse of 1889 in California. A third total solar eclipse was observed by him, with the Harvard expedition to Chili, in 1893. During the summer of 1889, Mr. Rotch was appointed a Juror of Awards at the Paris Exposition; and, in recognition of his services, received the decoration of Chevalier of the Legion of Honor. He took an active part in the Meteorological Congress held in connection with the Exposition. In August, 1891, he attended by invitation the International Meteorological Conference at Munich, and during the summer of 1894 was present at the meeting of the International Meteorological Committee at Upsala, as a member of the subcommittee having in charge the publication of a cloud atlas. Mr. Rotch received the honorary degree of A. M. from Harvard in 1891. He is a member of both the German and French Meteorological Societies, a Fellow of the Royal (English) Meteorological Society, and a councillor of the New England Meteorological Society. He is also a corresponding member of the British Association for the Advancement of Science, and a Fellow of the American Academy of Arts and Sciences.

The work of Mr. Thomas Hibbard, although presenting possibly nothing remarkable, exhibits a steady conscientiousness of purpose which, coupled as it has been with a natural capacity, must certainly be called successful. Mr. Hibbard is also a graduate of the course in Mechanical Engineering, in the Class of '75. During the six years immediately following graduation he occupied the position of draughtsman, both at the Atlantic Works and with the Boston Refining Company; and after three years of further work as a consulting and designing engineer in Boston, he accepted the position of head draughtsman with the Deane Steam Pump Company, of Holyoke. In 1890 he became treasurer and mechanical engineer of the George Lawley & Son corporation,—a well known yacht-building firm. Mr. Hibbard is a member of the American Society of Mechanical Engineers and of the American Society of Naval Engineers. He has been Class President since 1882.

Mr. Arthur M. Waitt, Course II., Class of '79, has entered upon mechanical engineering work in a field hitherto unoccupied by Technology graduates. In order to perfect himself in the minor details of railroad car and locomotive construction, he entered immediately after Commencement into the draughting office of the Chicago, Burlington and Quincy road. He rapidly rose to the position of head draughtsman, which he was obliged to resign on account of ill health, occasioned by night work. In 1882 he became head draughtsman for the locomotive department of the Eastern Railroad at Boston, maintaining the position after its consolidation with the Boston and Maine. In 1887 his jurisdiction was extended over the entire system, under the title of Assistant Master Car Builder. In 1889, Mr. Waitt resigned, to accept a more remunerative and important position with the Pullman Company. After seven months he was appointed Assistant General Master Car Builder of the Lake Shore and Michigan Southern system; and upon the resignation of Mr. Kirby, who had held the position for thirty years, he became General Master Car Builder. Mr. Waitt is a member of the American Society of Mechanical Engineers, and president of the Central Railroad Club, composed of railroad officers of lines in the Middle States.

Richard H. Soule, who came to Technology as a graduate of Harvard in the Class of '70, entered Course II. in the third year, and received a degree in Mechanical Engineering with the Class of '72. For six months he was employed in a field party of the Boston Water Works, completing a survey of the Sudbury River valley. In January of 1873 he entered the Southwark Iron Works, at Philadelphia, as draughtsman, rising to the position of chief draughtsman and Assistant Superintendent. In 1875 he entered the Pennsylvania Railroad service, becoming at length Engineer of Signals, later Assistant Engineer of Tests, and then consecutively Superintendent of Motive Power, at Baltimore, Williamsport, and Columbus. Since 1883 he has been connected in similar capacity with the West Shore road and with the New York, Lake Shore and Western road, acting for one year as General Manager of the latter. After spending some time abroad, he returned in 1888 to take the position of General Agent of the Union Switch and Signal Company at Pittsburg. At the present time he is Superintendent of Motive Power of the Norfolk and Western Railroad at Roanoke, Va.

Walter B. Snow, Course II., Class of '82, having served for a year as an assistant to Professor Whitaker in Mechanical Engineering, entered the office of the B. F. Sturtevant Company, of Jamaica Plain, Massachusetts, spending the greater portion of his time in designing and experimenting upon blowers, engines, and heating apparatus. In 1886 he began work in the

shops of the George F. Blake Manufacturing Company, to obtain a practical knowledge of machine-shop practice. In 1887 he returned to the B. F. Sturtevant Company, with which he has remained as mechanical engineer in charge of the draughting department, and as superintendent of all machine designs and of heating and ventilation work. He has been largely instrumental in developing systematic methods of draughting, with a saving both of time and expense, and has introduced valuable methods of pattern keeping. Mr. Snow has been a general contributor to technical journals on the subject of heating and ventilation, and on draughting-room and machine-shop methods.

Among the well-known graduates of Technology, the name of Henry M. Howe deserves a prominent position. He received the degree in Mining Engineering with the Class of 73, and for nearly eight months worked as a sort of unpaid apprentice in the Bessemer Steel Works, at Troy, New York. Very soon, however, he was appointed Manager of the Bessemer Steel Works, then in process of construction, at Joliet, Illinois. From 1875 until late in the following year, we find Mr. Howe in Europe, as a student of metallurgical and mining methods. Immediately upon his return to America he received an important commission to Chili, in connection with the copper-smelting industry of that country. His mission accomplished, two subsequent years were occupied in designing and constructing the large plants of the Orford Nickel and Copper Company, at Capleton, Canada, and at Bergen Point, New Jersey. Since that time, 1883, Mr. Howe's life has been spent in Boston as an expert in metallurgical patent cases and as a consulting metallurgist. His writings, by which he has become widely known, are voluminous, and have to a large extent appeared in the "Transactions of the American Institute of Mining Engineers" and in the *Engineering and Mining Journal*. "The Metallurgy of Steel," published in 1890, now in its third edition, has made him internationally famous. For this work, which has been translated into the French language, he has received a handsome prize from the Société d'Encouragement, of Paris, and in recognition of the value of the book he has received also, during the current year, the Bessemer medal of 1895, a distinguished honor. Mr. Howe was appointed Juror at the Paris Exposition of 1889, and President of the Jury on Mines and Mining at the Chicago World's Columbian Exposition. He has been President of the American Institute of Mining Engineers. For many years Mr. Howe has come into contact with Course III. men at Technology as a lecturer on the Metallurgy of Copper. For three terms, also, he has been President of the M. I. T. National Alumni Association.

We turn to Mr. Alfred E. Hunt as an alumnus, who having taken a degree in Mining Engineering, is now somewhat removed from his profession in following the career of a manufacturer. Upon leaving Technology, he became interested in open-hearth steel processes, and was engaged with the Bay State Iron Works of South Boston, soon afterwards entering the Nashua Iron and Steel Company of Nashua, New Hampshire. In 1880, four years after graduation, he was appointed manager of the open-hearth steel and heavy hammer departments of the Black Diamond Steel Works of Park, Brother & Company, Limited, of Pittsburg. After three years, having been engaged the while to some extent in construction work, Mr. Hunt entered upon a business career as a consulting civil and mechanical engineer, becoming the senior member of the firm Hunt & Clapp, the Pittsburg Testing Laboratory, of which he is still Vice President and Treasurer. While engaged in this enterprise, Mr. Hunt exhibited well his ability in taking entire charge of the work of inspection in the construction of several of the largest bridges in the United States: the Poughkeepsie Bridge, the Roberts Street Bridge of St. Paul, the Thames River Draw near New London, Connecticut, distinguished as the largest draw in the world, the bridge at Memphis, and others of hardly less fame. In 1885 he became President of the Pittsburg Reduction Company, of which he is still President and General Manager. His position is one of interest in that almost the entire amount of aluminum employed in the United States is supplied by this corporation. Mr. Hunt is a member and ex-President of the Engineers Society of Western Pennsylvania, member and ex-Vice President of the American Institute of Mining Engineers, a member of the American Society of Civil Engineers, of the American Society of Mechanical Engineers, of the American Chemical Society, of the Institution of Civil Engineers of Great Britain, of the Iron and Steel Institute of Great Britain, and a Fellow of the American Society for the Advancement of Science.

The work of Mr. H. H. Campbell, a graduate of Course III., in the Class of '79, is one of peculiar interest in that it has lead to the prominent position of Superintendent in one of the largest manufacturing organizations in the United States. It is equally pleasing to note that the Pennsylvania Steel Company, with which Mr. Campbell has been connected during the entire period since graduation, has employed a larger number of Technology men than any other concern. In view of the notoriety which the works at Steelton have attained, we take the liberty of quoting a portion of a letter received recently from Mr. Campbell in regard to the work which is demanded of men entering the company from scientific institutions. "It has been the practice of this company to take young men from scientific

schools and put them at work in very humble positions where there is some hard work to do, and where they must learn thoroughly the practical details of at least one branch in the manufacture of steel. This knowledge is not and never can be possessed by newly-fledged graduates of any college, and such an apprenticeship is a necessary post-graduate course. The length of the term varies in every case, but it may roughly be stated that a new-comer is of little use until he has worked for two years. After that time his advancement will depend upon his ability, his ambition, and the accident of vacancies in more important positions." Mr. Campbell entered the service of the company at a time when its plant was largely developed and expanded. His earlier years were spent in the open-hearth department, where he was successively Foreman and Superintendent. In 1889, the value of his work became so apparent that his appointment as Assistant Superintendent of the works followed, and in two years the appointment of General Superintendent. Mr. Campbell has added to the world of science the results of a careful investigation of the laws which govern the manufacture of steel in open-hearth furnaces. The *data* thus obtained through his efforts have been published in the *Journal of the American Institute of Mining Engineers*. As Secretary of his Class since leaving Technology, Mr. Campbell has had charge each year of a printed catalogue containing the addresses and occupations of nearly all men connected with the class organization.

Mr. J. W. Cabot, Course III., '79, entered the service of the Cambria Iron Company, at Johnstown, Pennsylvania, as an assistant in chemical engineering. After a year and a half of work in this direction, he entered the steel works as a common laborer, to acquire a knowledge of open-hearth processes. In the spring of 1881 he assumed the duties of chemist at the Homestead Works of the Pittsburg Bessemer Steel Company, but soon returned to Johnstown as Assistant Superintendent of the Bessemer and Blooming Mill Department of the Cambria Company. In 1885 Mr. Cabot was made Superintendent of the Billaric Steel plant. In the six years of his management the yearly production of the works was more than doubled, and the reputation of the steel became well established. During this period he made a study of the conditions governing the blowing of soft steel from iron directly taken from "blast," and was one of the first in this country to employ the method in a practical manner. Since leaving the Billaric plant in 1891, Mr. Cabot has controlled the basic open-hearth of the Pottstown Iron Company, and, later, the Bessemer works of the Maryland Steel Company, which is the more recent of the great iron works in the United States, incorporating the latest improvements in Bessemer work and in rail rolling.



To the list of successful graduates of Course III., must be added the names of J. E. Hardman, '77, F. W. Wood, '77, D. H. Lyall, '84, and Takuma Dan, '78. Mr. Hardman has become one of the leading mining experts of Nova Scotia, and has for some time past held the office of President of the Nova Scotia Mining Association; F. W. Wood has been one of the chief forces in building up the Maryland Steel Company, of which he is now President; Captain Lyall has occupied a number of responsible positions in the United States Light House Service; Mr. Takuma Dan, having acted for several years as mining expert for his government, now holds an appointment as General Manager of several of the larger Japanese government mines.

For the reasons which have heretofore been advanced, but little can as yet be said of the work of Technology graduates in the Department of Architecture. Probably no other course of similar training in our country is so strong, so thoroughly, systematically planned, under such efficient leadership as Course IV.; but so short a period has elapsed since a transformation of the special into the regular student has been wrought, that there has indeed been no opportunity for work of importance. Such a name, however, as that of Mr. George L. Heins, '82, of New York, is destined to become with each year more and more prominent. Among other graduates, Mr. Boyden of Philadelphia, Mr. Beal, Mr. Phillips, and Mr. Lewis of Boston, Mr. Chamberlin of Cambridgeport, Mr. Ely of New York, and Mr. Eppendorff of Chicago, certainly deserve a mention.

In considering the alumni of Course V., that of Chemistry, it has been deemed a wise measure to restrict mention to four men who represent the four primary branches of chemical work in which Technology graduates have engaged. Mr. W. B. Allbright, of the Class of '78, has done much in the department of chemical manufacture to make his career one of interest to the student of chemistry at Technology. Through an excellent working knowledge of chemical principles and an innate ingenuity, Mr. Allbright has accomplished in a few years that which many men have only done in a much longer period. His first efforts were directed toward a comprehensive investigation of lubricating oils, and upon the completion of this work he accepted a five-years' engagement with N. K. Fairbank & Co. After another year spent in travel both abroad and in the West, he received a position for two years in the laboratories of the Central Lard Company. About this time he invented the sudden chilling process of lard cooling, which has of late been very generally adopted, completely revolutionizing the manufacture of lard products. Other mechanical improvements, of no

slight industrial value, have seemingly followed, easily and naturally, the introduction of this important process. Since 1889, Mr. Allbright has occupied a responsible position with Swift & Company, of Chicago.

Of the three graduates of whom mention may be made, whose work has been in many ways representative, Mr. F. H. Williams, '73, has become one of the most prominent physicians of Boston, Mr. F. G. Stantial, '79, is at the present time Superintendent of the Cochrane Chemical Company, of Everett, Massachusetts, and Mr. L. P. Kinnicutt, '75, has become Professor of the department of Chemistry at the Worcester Polytechnic Institute.

Mr. Louis A. Ferguson, a graduate of Course VI. in the Class of 1888, has accomplished in the short space of seven years a work which will entitle him to a prominent place among the younger alumni. Immediately after leaving Technology he entered the Chicago Edison Company, with which he has since remained. He was soon made electrician of the underground department, which entailed the supervision of all subterranean conductors for the distribution of electrical energy throughout the city, and the location and removal of the defects in the system. Shortly afterwards he received an appointment as assistant electrician, estimating and inspecting electrical construction work. In 1889, Mr. Ferguson became electrical engineer of the company, and in January of '93 was placed in charge of the commercial as well as the electrical department. The Chicago Edison Company operates four central stations having a capacity of over eighteen thousand horse power, with a connected equivalent load of two hundred and seventy thousand sixteen-candle-power lamps. The company has a capital stock of some five million dollars. The electrical work of three stations was laid out and erected under Mr. Ferguson's supervision; the last, that known as the Harrison Street Station, having at present a capacity of ten thousand horse power, and an ultimate power of thirty thousand. This station is known as the largest in the world, embodying as it does the most advanced ideas in electric engineering practice for the distribution of large currents. Mr. Ferguson has recently been made one of the staff of special lecturers at the University of Wisconsin.

In Mr. G. W. Patterson, '87, we find one of the few graduates of Course VI. who have attained high rank as instructors in our American colleges. During the year 1887-'88 he remained as instructor of Mathematics at Technology, and the following year entered the Harvard Law School, with the intention of fitting himself for an occupation very different from that in

which he is now engaged. In the summer of '89, however, having been offered a position as instructor in Physics at the University of Michigan, he accepted, and served in that capacity for three years; obtaining in '92 his present appointment, that as Assistant Professor of Physics and Electrical Engineering. Palazo's "Treatise on Photometry," recently translated by Mr. and Mrs. Patterson, has been purchased by D. Van Nostrand for publishing.

Mr. William J. Hopkins took the degree of Bachelor of Science in Electrical Engineering with the Class of 1886. He entered the Boston Manufacturers' Mutual Insurance Company as draughtsman, and after five months became inspector for the Factory Mutual Companies. At the close of 1887 he was given an opportunity to employ his technical training as electrician of the American Bell Telephone Company. His work with this concern was almost entirely experimental, consisting of original investigations on instruments and lines. In the summer of 1889 he began a three-years' service with the Thomson-Houston Company in the railway department. He was one of the earlier patentees of the series-multiple system of car control used by this corporation, and caused the introduction of improvements in several main accessories to switch board and line construction. Upon the consolidation of the Thomson-Houston with the Edison Company, he left its employ, and was offered a professorship in Physics at the Drexel Institute of Art, Science, and Industry, at Philadelphia. The equipment of Mr. Hopkins's laboratories is very complete, and a high standard of work has been attained. In the spring of 1893 he published a work, "Telephone Lines and Their Properties," which is already in its third edition. "Preparatory Physics; a Short Course in the Laboratory," appeared in 1894, and has proved especially serviceable as an introduction to the study of Physical Science.

Mr. Edwin O. Jordan, of Course VII., '88, is one of the younger graduates of the Biological Course. For two years he held the appointment of Chief Assistant Biologist to the Massachusetts State Board of Health, and during the second year gave a series of lectures at Technology on Biology and allied subjects. In the two years which followed, he was made Fellow in Biology at Clark University, where he received the degree of Doctor of Philosophy in recognition of his valuable work. He afterwards became tutor in Anatomy at the Chicago University, and at the present time has received an instructorship in Biology at the same institution. Mr. Jordan is perhaps best known to the scientific world through his papers, which have been published as the result of careful investigation and discovery. Among these may be mentioned: "The Numbers of Bacteria in

Certain City Tap Waters," published in the *Technology Quarterly* in 1889; "Phagocytosis and Immunity," *Boston Medical and Surgical Journal*, 1890; "Recent Theories on the Function of the White Blood Cell," *Technology Quarterly*, 1890; "Certain Species of Bacteria Observed in Sewage," Massachusetts State Board of Health Report, volume on "Water Supply and Sewage," 1890; also, in the same volume, "Investigations on Nitrification and Nitrifying Organisms," with Mrs. E. H. Richards, of the Sanitary Laboratory at Technology; "The Spermatophores of *Diemyctylus*," *Journal of Morphology*, 1891, and "The Habits and Development of the Newt," *Journal of Morphology*, 1893. In addition to these, Mr. Jordan has been the author, in connection with Mr. A. C. Eycleshymer, of two comprehensive articles on "The Clearance of Amphibian Ova," the first published in the *Anatomischer Anzeiger*, 1892, and the second in the *Journal of Morphology*, Number 3, 1894.

Mr. George E. Hale, of the Class of '90, is probably best known of the recent graduates of Course VIII. Before leaving Technology, during his Senior year, Mr. Hale made several experiments in Solar Prominence Photography at the Harvard College Observatory, and during the fall of '90 was appointed Director of the Kenwood Astro-Physical Observatory at Chicago. While carrying on other labors in a varied field, Mr. Hale until very recently has retained his position at Kenwood, where he has performed a long series of Astro-Physical investigations. In 1891 he was made a Professor of Astro-Physics at Beloit, and appointed as lecturer on the subject at the North-Western University. In 1892 he became editor of *Astronomy and Astro-Physics*, and an associate professor at the University of Chicago. The two years following were spent in travel and study; two astronomical expeditions to Pike's Peak were projected, the Yerkes Observatory finally established, and astronomical work on Mount Etna, in Sicily, accomplished. Early in 1895, Mr. Hale received two distinctly honorable positions: that as editor of the *Astro-Physical Journal* and that as Director of the Yerkes Observatory.

The work of W. H. Pickering, '79, Course VIII., has been devoted almost exclusively to astronomical researches. For some time after Commencement he served as assistant, and later as instructor, at Technology in the Department of Physics, afterwards receiving an appointment at the Harvard College Observatory, where he has since remained as Assistant Professor of Astronomy. Mr. Pickering has traveled extensively in connection with his investigations, and has been instrumental in establishing the Mt. Wilson Observatory near Los Angeles, California, in the winter of

1888-89, the Harvard Peruvian Observatory near Arequipa in 1890, and the Lowell Observatory at Flagstaff, Arizona, 1894. Under his supervision many thousand photographs of peculiar astronomical value have been taken at these several stations. The survey of the Bolivian Andes from 1890-91, which has established the altitudes of more than twenty of the highest peaks on the American Continent, has been completed largely through his efforts.

Among other alumni, S. H. Wilder, '74, has become well known as a prominent lawyer of Cincinnati, J. P. Tolman, '68, as President of the Samson Cordage Company, and J. Munroe as President of the Munroe Paper Company and as President of the M. I. T. Alumni Association: Prof. C. S. Minot, '72, Dr. S. J. Mixter, '75, and Prof. G. R. Tucker, '87, have attained distinction in Boston medical circles.

With this comparatively brief list we close, feeling that a mere outline of the work of our alumni has been sufficient to prove the value of our institution in the world of science. Much of thorough interest has been left unsaid; many graduates have received no tribute whose efforts have wrought equal, if not at times greater, success. There is, indeed, in the work of the entire graduate body much of which to be proud; but little to censure. A love of Alma Mater has found its way into the heart of every true alumnus. His work has been neither selfish nor ineffectual. Well may the student of to-day emulate the example of those who have gone before; well may he give of his support, his sympathy, and his love to the college which has already accomplished so much in the world, which is destined to accomplish so much more.







COME NINETY FIVE

IT'S YOUR TURN.



# Class of Ninety-Five.

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## YELLS.

Rah! Rah! Rah!  
Ree! Ree! Ree!  
Ninety-Five! Ninety-Five!  
M. I. T.!

Rah! Rah! Rah!  
M. I. T.!  
Rah! Technology!  
X. C. V.!

Colors: Blue and Gold.

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## Officers.

### *President.*

ARTHUR LAKE CANFIELD.

### *Vice President.*

RICHARD G. B. SHERIDAN.

### *Secretary.*

EDWARD AUSTIN TUCKER.

### *Treasurer.*

WALTER CARPENTER MARMON.

### *Directors.*

GEORGE WELLINGTON HAYDEN.

EDWARD HALEY HUXLEY.

GERARD SWOPE.

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## Ninety-Five's Egotism.

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IN those moments of self-examination which seem more common to the Senior than to lower-class men, there are two lines of thought which his mind involuntarily follows,—reminiscences of the past and dreams of the future. The first is bright and joyous to many, sad to but a few, and certainly self-satisfying to all. The second is more vague, taking in the mind of the purposeless dreamer\* beautiful and fairy-like forms, while for the cool-headed, practical man it forms itself into definite and well-calculated plans. These thoughts, in a general way, we will try to follow. The Senior will forgive us for writing what cannot be new to him. The lower-class man may follow with more interest thoughts which will one day be his.

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\* We cannot help it if the historian will persist in maligning his own class.

In reviewing our Technology life from the time we, as Freshmen, first signed an attendance card, to our present Senior year, there are many touches of pleasure and excitement which, in themselves, give the lie to the statement so often made that our Institute existence is four long years of dull monotony. We are not collegians, it is true; and the average collegian can boast of more pleasure than we—but what of that? Work takes most of our time, and we give to play the little that is left. At college, it is only when there is no pleasure at hand that work appears. Can we not, then, say that a Technology Senior, in possessing that self-satisfaction\* which hard work always brings, has more than many college men can boast of?

Let us turn from work to our little pleasures, and make the most of them. Technology is comparatively a young institution, and Tech. men are apt to feel the effect of its youth more upon their social events than, perhaps, in any other way. Yet every Senior knows what our social advance has been since his Freshman year. *L'Avenir*, springing suddenly into existence, undertook last year theatrical ventures which were a marked success out of Technology as well as in. *Der Deutsche Verein* will this year equal, we hope, or better this attempt. Then again, our athletes, in spite of the fact that they labor under greater disadvantages than those of most colleges, seem each year to have a more creditable record than the last. And our Glee and Banjo Clubs' concerts, from being small gatherings of students and professors, are being brought more and more to the notice of the outside world.

But we must leave these scenes for those of our less pretentious, but hardly less convivial climes. We all remember the Senior Dinner of our Freshman year. † How delightful that was! How philanthropic we felt, sitting at the farther end of that bare old hall with remnants on our plates, watching the Faculty eat our dinner and drink the Glee Clubs' songs. It was a pleasure to think they and the Seniors were our guests; and the small supply of dainties left on the dishes by the time they reached us, made us proud to think our guests were so evidently enjoying themselves. In the end, however, we were quits, for the speeches they made were as difficult for us to digest as the dinner was for them. At least we learned a lesson, for at future dinners we gave our full attention to the *ménu* and but little to the speeches.

These good times we have had together in a body; but each of us can recall many a pleasant evening spent with a few classmates,—perhaps in

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\*Ninety-Five seems to have mortgaged all the available stock of self-satisfaction.

†Also that of our Senior year?

talking earnestly\* over a mug of musty ale, perhaps in discussing the merits of oysters, with a glass of "imported" to aid our wits. Can one fitly describe the little spreads he has given or been invited to? the Welsh rarebits thereat consumed? One word is sufficient to recall them, for few are like our classmate who, on being asked if he cared for a rarebit, replied, "Thanks, but I don't drink."

The remembrance of these evenings brings a little sadness and regret. We feel as if we were already outcasts from this life, because the time is so short before we leave it for the world at large. "Next year," we say, and stop abruptly, for the words have now a new meaning for us, and we cannot use them with that delightful certainty of former years. We realize that we are approaching a life where other qualities of the mind are expected of us than mere book learning. We have learned our lessons like schoolboys, following blindly and trustfully the finger of our professors, even, at times, in spite of our convictions. What are we to do when there is no finger to follow? "Next year," we murmur more reverently, and the word leads us on, timid at first, but soon with bolder imagination, to the "castles" of the future.

Oh! who can tell the forms which these dreams take in different minds. Every one of us has some hobby, some ideal, and we make the future bring the completion of our ambitions. Some see themselves masters of the world, guiding with a successful hand "enterprises of great pith and moment," at whose call and beck are thousands. They are consulted upon all plans for public improvements, and no scheme is considered rational without their approbation. Again, others wish but for a quiet, settled home,—a home with books; not Applied Mechanics, nor Ganot's Physics, —God forbid!—but those books which, on reading them in odd moments of leisure between our studies, have seemed alive and burning with thought in comparison. They seem the only friends of some, for they alone can lift one above the edge of a narrow training.

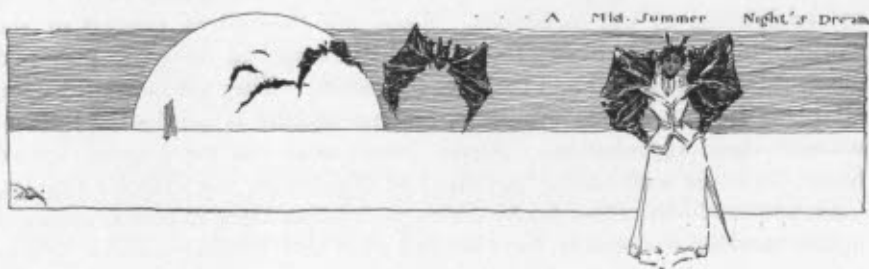
Do not mistake our meaning at this point. You come to Technology to learn a profession. Master them, by all means, the studies which the Faculty deem necessary to that profession,—but do not let them master you. Accept, as a means of broadening your education, the few invitations which come your way. They will be the bright spots of your Institute career which you will recall with pleasure in after days, and describe; your lectures you will soon forget. And then, as another means, perhaps the best known, read. Read in your leisure moments all that you can get that is beautiful and poetical; everything that is not based upon logical theory and

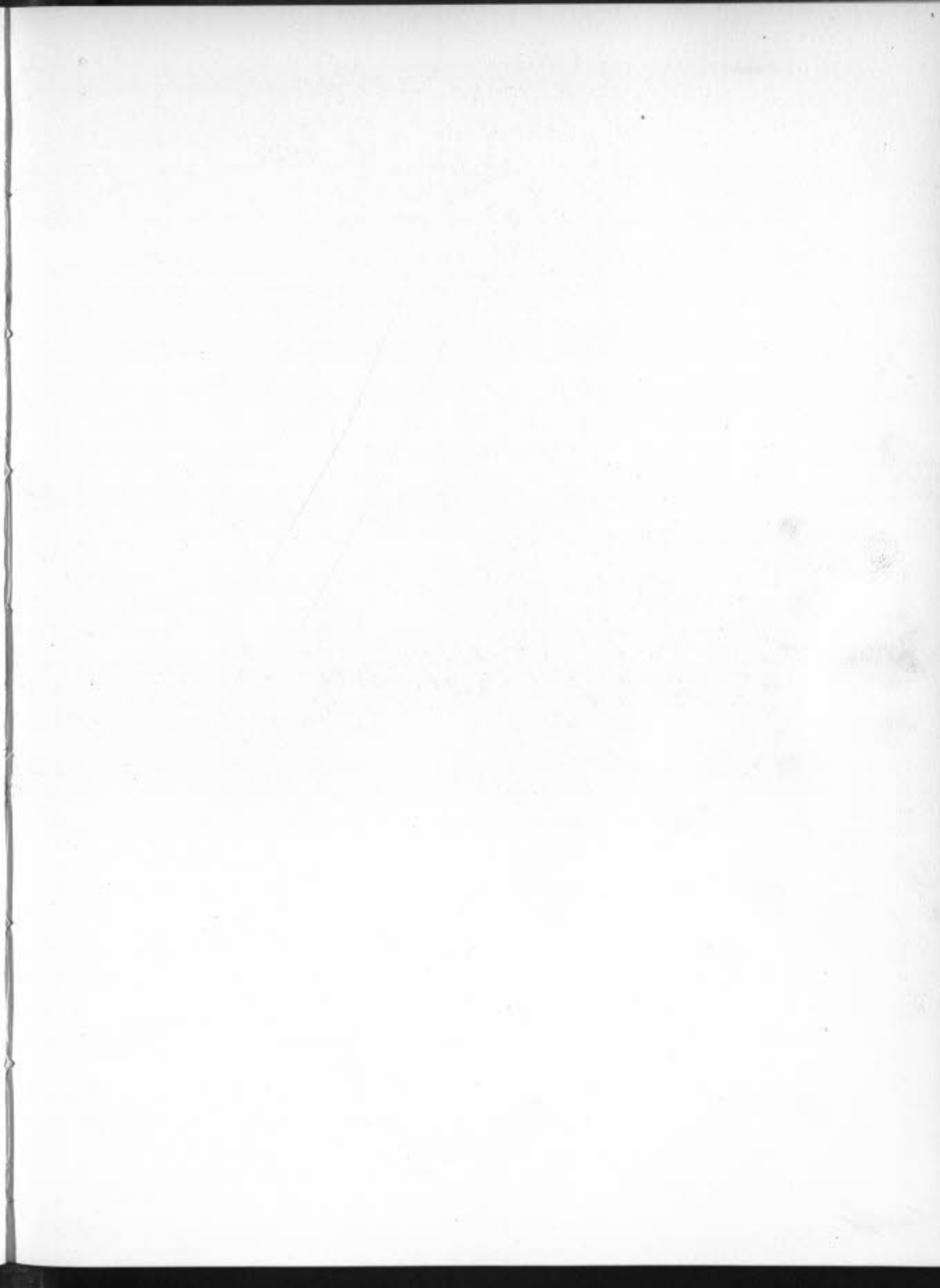
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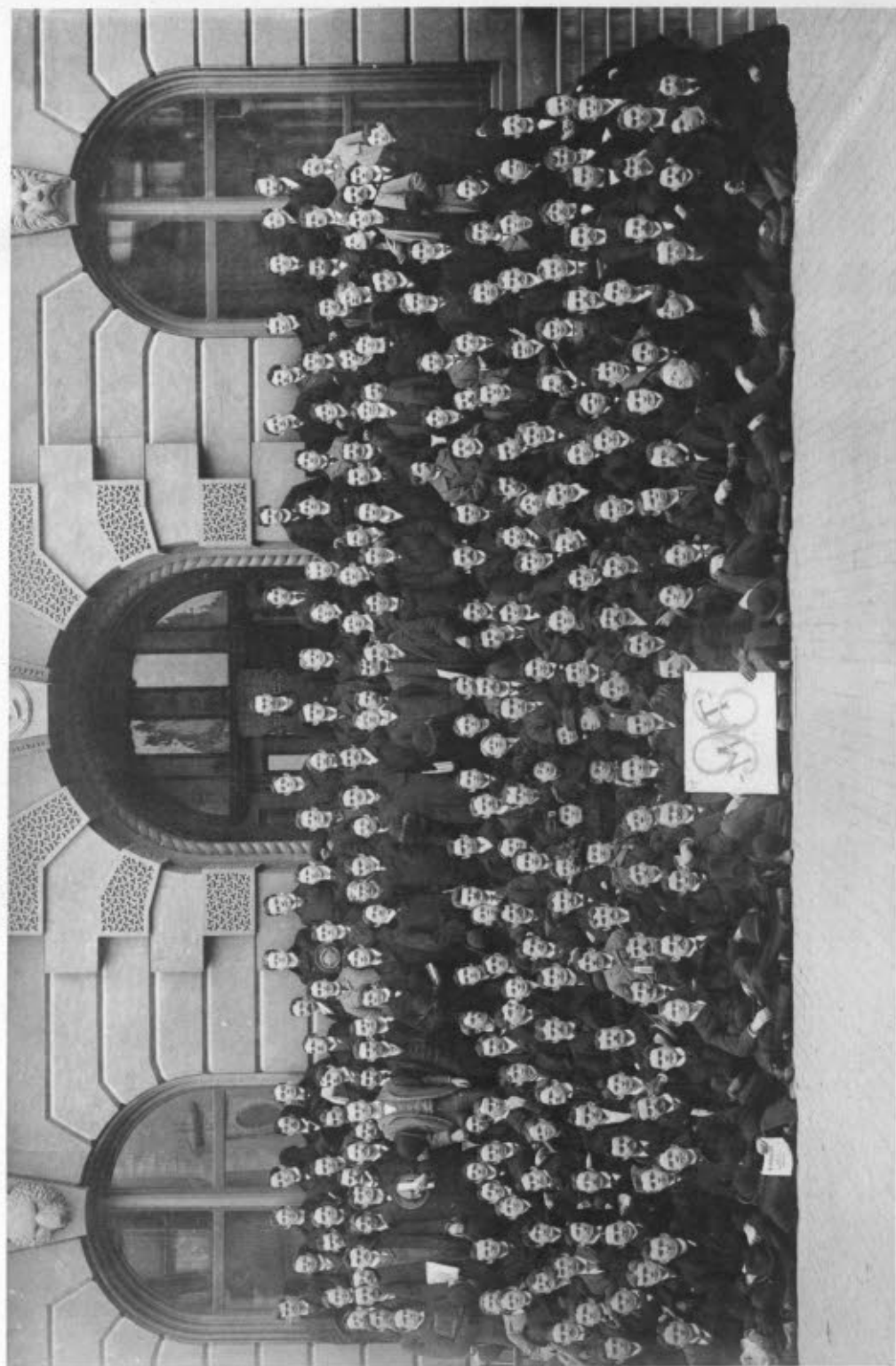
\* Perhaps this is one of those moments of self-examination which seem more common to the Senior than to lower-class men. See paragraph one, line one, of this essay.

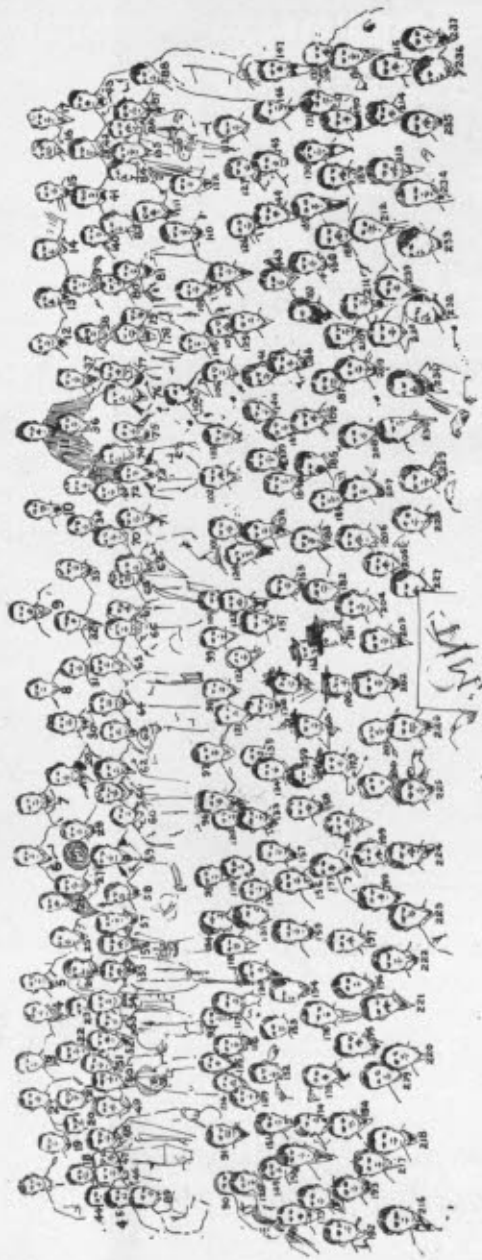


experimental proof; everything that does not begin with "As we have seen," and end with Q. E. D. Cultivate with your whole heart your artistic tastes and instincts, and trust to the Faculty to ram materialism into you. Do this, and you may graduate an educated man, in spite of the fact that the chances are against you.









- 78 Allen, M. W. Jr.  
197 Allen, W. H. Jr.  
199 Andrews, W. McC.  
219 Andrew, W. McC.  
44 Atkins, E. C.  
35 Bakenhus, R. E.  
202 Baldwin, E. A.  
86 Baldwin, H. S.  
178 Barker, E. H.  
62 Barlow, W. H.  
189 Batchelder, C. E.  
173 Bates, D. M. Jr.  
91 Beaman, D. W.  
53 Black, M.  
112 Bloodgett, K. W. R.  
220 Bonnycastle,  
187 Bowes, G. S.  
50 Brackett, E. R.  
43 Brackett, T. T.  
76 Bragg, E. M.  
118 Breed, L. B.  
11 Brooks, J. F.  
155 Brown, H. P.  
143 Brown, H. W.  
130 Burgess, G. K.  
130 Callan, J. G. W.  
157 Campbell, J. W.  
123 Cannon, L. T.  
12 Cary, L. A.  
160 Chamberlin, H.  
188 Chenery, W. H.  
31 Clary, J.  
39 Clifford, W. H. Jr.  
172 Cobb, H. L.  
109 Coleman, W. H.  
56 Coley, J. M.  
117 Conant, F. M.  
132 Coolidge, W.  
15 Coolidge, W.  
54 Corson, W. B.  
210 Corson, W. B.  
190 Crane, S. D.  
193 Crane, S. D.  
190 Crane, T. B.  
70 Crosby, R. W.  
184 Cummings, H. Jr.  
216 Cunningham, E. B.  
149 Cushing, J. W.  
131 Daniels, M. H. Jr.  
58 Davis, C. W.  
14 Davis, F. H.  
89 Davis, R. A.  
156 Dixon, M. W.  
108 Doliber, F. W.  
71 Drake, C. F.  
29 Driscoll, J. M.  
81 Driscoll, J. M.  
208 Drum, A. L.  
200 Dyer, H. W.  
6 Eames, E. A.  
151 Elliot, R. O. E.  
188 Emerson, L. C.  
223 Ewing, W. C.  
63 Eynon, J. S.  
158 Fayfield, R. C.  
36 Field, F. C.  
145 Field, F. E.  
122 Field, W. E.  
204 Fisk, H. G.  
51 Forster, F. E.  
182 French, G. Jr.  
19 Fuller, M. L.  
94 Gage, S. de M.  
179 Gates, H. L.  
121 Gay, C. M.  
69 Gaylor, J. F. E.  
57 Gillespie, A. E.  
171 Goldsmith, C. M.  
115 Goodspeed, G. M.  
24 Gordon, E. B. Jr.  
135 Grush, H. G.  
209 Guptill, F. E.  
174 Hale, B. Jr.  
100 Hall, G. C.  
170 Halloran, J. S.  
161 Harlan, J. S.  
217 Hardy, R. S.  
147 Harkness, G. E.  
183 Harlowe, F. L.  
431 Harrington, J. B.  
46 Hartwell, H. B.  
26 Haste, J. H. F.  
99 Hawley, H. F.  
128 Hedge, W. R.  
129 Hedge, W. R.  
45 Henderson, J. B.  
138 Henry, R. C.  
4 Hewett, J.  
139 Herbst, J. B.  
175 Hildreth, E. T. T.  
114 Hollis, W. M.  
2 Howard, F. A.  
146 Howe, J. M.  
21 Howland, C. C.  
80 Hultman, E. C.  
37 Hurd, B. Jr.  
203 Hyde, C. G.  
103 Ingalls, C. H.  
205 Ingell, H. P.  
196 Jacobs, E. C.  
73 James, W. H.  
22 Jameson, M. S.  
90 Johnson, C.  
235 Johnston, R.  
185 Jones, H. K.  
194 Jones, T. I.  
127 Kent, W. A.  
87 Kimball, E. F.  
152 Knight, J. H.  
120 Knights, A. A.  
7 Lamborn, L. L.  
52 Laws, E. H.  
20 Lench, W. H. Jr.  
199 Leighton, M. O.  
74 Leland, W. S.  
41 Lewis, R. H.  
32 Lindenlaub, P. W.  
25 Litchfield, P. W.  
21 Locke, C. E.  
134 Lunt, R. S.  
158 Lynum, G. W.  
211 McAllister, A. Jr.  
227 MacAlpine, W. H.  
27 MacLachlan, A. M.  
68 Mahoney, J. M.  
67 Manahan, J. H.  
232 McCann, F. G.  
108 Merrill, I. S.  
60 Moot, C. P.  
48 Merryweather, G. E.  
224 Moore, M. E.  
79 Morgan, R. F.  
105 Morrill, G. L.  
40 Morse, L. S.  
40 Morris, C.  
234 Newhall, C. S. B.  
133 Nevins, C. K. B.  
213 Nevins, C. K. B.  
181 Norris, G. A.  
102 Norris, R.  
105 Owen, F. B.  
133 Pardonner, J. H. Jr.  
207 Paul, C. H.  
236 Paul, K. A.  
34 Peirce, V. M.  
150 Pennell, W. O.  
225 Pierce, M. E.  
226 Poppenshausen, J. H. A.  
201 Porter, R. W.  
140 Portner, R. F.  
218 Pressey, H. A.  
222 Pritchard, E. H. Jr.  
64 Putnam, J. L.  
109 Rawson, J. D.  
197 Rice, H. Jr.  
169 Richardson, D. A.  
119 Robinson, E. H.  
77 Rockwell, J. A. Jr.  
113 Rogers, F. H.  
124 Root, W. L.  
154 Ruckhaber, A. F.  
145 Russell, A. Le B.  
144 Sager, L. K.  
237 Sanderson, N. H.  
239 Sax, M.  
54 Scovel, J. C. Jr.  
153 Sears, H. K.  
61 Shepard, B. H.  
73 Sherman, H. A.  
53 Small, F. N.  
110 Smith, H. E.  
164 Smith, H. E.  
83 Smith, F. H.  
233 Smitters, S. T.  
101 Snyser, A. E.  
102 Snyder, J. C.  
136 Snyder, J. C.  
22 Starbuck, G. P.  
38 Stearns, W. M.  
126 Stevens, H. C.  
5 Stickney, J. W.  
162 Stone, E.  
42 Stone, C. H. H.  
17 Stratton, G. E.  
238 Sturm, M. J.  
160 Sumner, I. W.  
214 Tappan, L. H.  
16 Thanisch, F. A.  
95 Thomas, W. H. Jr.  
66 Thompson, A. W.  
180 Thompson, L. D.  
167 Tilley, J.  
27 Tozier, H. H.  
111 Trout, C. E.  
9 Tucker, C. W.  
128 Tyler, L. S.  
237 Tucker, F. S.  
59 Underhill, A. P.  
104 Urquiza, P.  
137 Von Holst, H. V.  
65 Von Jungendorf, C. E.  
212 Waterman, H. A.  
33 Watson, H. J.  
141 Wall, W. G.  
141 Wall, W. G.  
230 Wentworth, C. A.  
195 Wheeler, A. E.  
38 Willis, J. H.  
215 Wise, S. F.  
176 Wood, W. A.  
191 Woodwell, J. E.  
177 Young, C. H.



The  
Junior



# Class of Ninety-Six.

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## 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!

Colors: Crimson and Black.

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EDWARD ARTHUR BALDWIN.

### *Vice President.*

MYRON EVERETT PIERCE.

### *Secretary.*

HARRY GEORGE FISK.

### *Treasurer.*

HERMAN ADOLPH POPPENHUSEN.

### *Executive Committee.*

CHARLES GILMAN HYDE.

ANDREW DUGALD MACLACHLAN.

JOSEPH HARRINGTON.

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## The History of the Juniors.

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ALTHOUGH the history of the Class of Ninety-Six is indelibly engraven on the heart of each one of its members, and has, since its advent, held a prominent place in the annals of the Institute, still, it is becoming that the annual of so worthy a class should contain its history; and we therefore shall seek to lay out a retrospective panorama which shall give to the heretofore unfortunate public an unbiased account of the manœuvres and achievements of the Class of Ninety-Six.

The sun never allowed its rays to shine with more splendor from out a September sky, than it did when a little band of novices pressed the hard, unresponsive granite of old Rogers steps for the first time as Technology students and members of the Class of Ninety-Six. These ardent adventurers did not feel proud in the least;

they did not feel that they ought to be envied by the world at large; they simply realized the responsibility of their positions, and conducted themselves as worthy Freshmen always do, with great gravity and propriety. The amount of instruction received during the first two or three weeks is worthy of comment. The bulletin boards had to be scoured on an average of at least three hours per day; lectures "on the propriety of handing umbrellas in point first," which were eagerly delivered by the "feathered individual," had to be attended; the nearest way to the Secretary's office and the latest date upon which the tuition could be paid came to be ascertained with wonderful precision; the first visit had to be made to the "Chapel," to see "what kind of hymn books they used"; and various other difficulties arose which the business-like Freshies soon surmounted. Ninety-Six, however, soon became settled, and made itself entirely at home, while the rest of Technology soon realized that "a change had come over the spirit of their dream," and that they had dealings with a class long since loosed from their mothers' apron strings,—a class of much spirit, and well worthy of their metal. We are glad to state a difference between this class and those both preceding and following. Ninety-Six did not say real hard things concerning "Mr. Linus," but truly loved him, and bought their drawing instruments where he suggested, without regard to price; they never "cut" drill or whistled in the drawing room, or thought naughty words in freehand drawing; and besides all these virtues, they fervently loved the Sophomores.

Before Ninety-Six had hardly become deep-rooted in the soil of Technology, one day while they were preparing to become perpetuated by the photographers's art, a certain swarm of insects, termed "Sophs," swooped down upon them and bore away their ensign; but the brave warriors simply "shoo-ed" off these troublesome pests and saved their strength for the cane rush, this and the football game being the most important events of our first year. But why need we speak of the game? for they are all very similar. But the rush! It was glorious! Members of each class were physically arbitrating as to the propriety of having their hands on the cane; and in different quarters clearance sales of underwear at cut rates were being held, and a great business was being carried on. But why go into needless details when Ninety-Six came out victorious?

Soon the fleeting weeks brought around the time for the "Semies"; but the Freshman did not dread these,—indeed he did not! But so great was his anticipation of pleasure that he sat up nights waiting for them, and consequently when they arrived he hardly had strength enough to do himself credit. The fates were somewhat propitious, however, and nearly all came back for a second trial in the great struggle for existence.

In athletics, Ninety-Six carried everything by storm; in fact, before the arrival of this class it was hardly known in Technology what athletics meant; but as they have had so capable a teacher, they now possess a very good idea. Time passed on, with now and then a lecture in Chemistry with no "immejjately" in it, and once in a very, very long time an interesting lecture in "Descrip"; but these and other things served to pass away the time, and soon the oracle announced that a week of festivities, called the "Annuaals," would be indulged in, and in preparation for the same went each individual member of the class to his home, his crib, or his tutor, as the case might be, but at any rate he studied. In ample time to brighten the celebration of the glorious Fourth, there was conveyed to us, through the kindness of "Uncle Sam," a certain document composed of H's, C's, and F's, which would be of service to us in filling out our next attendance card, also in knowing to which class we belonged.

Once again, on another September morning, those of the class who had not "gone into business" or decided to "wait a year," greeted each other in the spacious recess of Old Rogers, and congratulated one another on the varying successes attained.

But think,—we are "Sophs" now! And what are those strange-looking creatures coming up the steps and filling the places occupied by us but a few short months before? Those are Freshmen; and methinks, by the looks, many a Vermont or California farm must remain uncultivated for four years. But there's no time for these reflections,—our tabular views must be made out, new books be purchased from "Shylock, the Jew," and we must become initiated into the mysteries of the "Engineering Building."

It was real good fun being Sophomores, but before we had soared very high into the realms of idealism, we were plunged into the midst of second year Physics dealt out in allopathic doses three times a week up in the regions of dreamland. We were also treated to a series of readings and lectures by the author of "Wheels Afire." We had become so lifted up during a few short weeks that, when it came time for our class elections, we used the real live Australian ballot system, signifying by a cross the favored candidate on our slip. We enjoyed this election and mode of balloting so much, that when the Freshmen had their election we voted for them, too.

Hardly had the football season set in when we began to plan for our second football game and cane rush, and in due time we met the enemy and conquered in both events, besides having our beautiful class flag floating over the field of battle. We also secured one of the enemy's spurs, through the kindness of one of our Co-eds. It may here be noted that all these memorials of conquest may be seen in the "Trophy Room." To commemorate our victory in the cane rush, we sought far and near for beautiful

bits of curved stick decorated here and there with certain significant figures in silver, and costing certain other significant figures in gold. With these well-earned toys we paraded the streets on every possible occasion, and greatly worried the sedate "Lounger" of *The Tech*, who gave vent to his distemper in a few well-chosen words of censure. But the cane is still in existence.

The "semies" troubled us not, this year, for we knew what they meant, so we simply studied a little harder than usual, took the exams., and waited. Soon after we returned for the second term's work it was suddenly discovered that we had all become wonderfully famished, so it was decided that we should have a class dinner; and after many preparations and much work a goodly assembly gathered at the Parker House to partake of the bounty of the Class of Ninety-Six. The inner man having been regaled, the air was filled with smoke and wit,—there being a prevalence (we flatter ourselves) of the latter; and different members began to toast Ninety-Six in every phase of its existence, it being in fact overdone, and in consequence appearing for days afterwards very much puffed up.

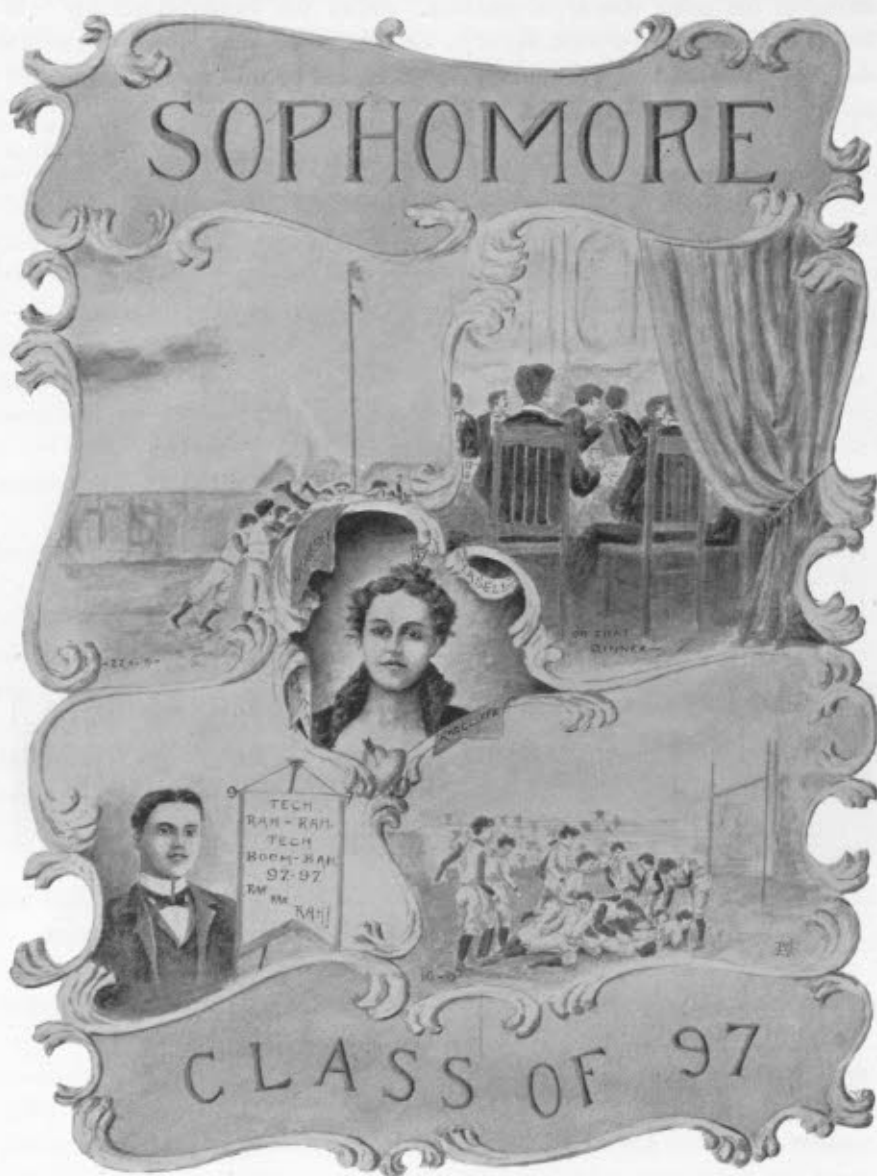
One of the next important events, which turned us aside temporarily from the usual routine of work, was the choosing of the Ninety-Six TECHNIQUE electoral committee. On a memorable day the members of the class appeared in Rogers corridor and made their marks on certain long and formidable-looking documents, thus choosing twenty-five individuals from the class who should in turn elect the TECHNIQUE Board, this being accomplished with a certain known result. The meetings of the electoral committee were models of parliamentary law, legal advice and "points of order," and all were destined to learn—besides the virtue of patience—the characteristics, accomplishments, and ability of each other member of the committee. After somewhat long and conscientious debating, however, the board was elected, and the house of representatives was adjourned.

Amid these activities the "grinds" continued to grind, the "sports" continued to sport, and with wonderful rapidity the "Annuals" have come. Now having reached the half-way mark of our course, we are permitted to rest during a four months' vacation, in anticipation of the two years yet to come, filled with toil and pleasure. Our Junior year was one of unusual activity: what seemed work before, now is remembered even as childish pleasure, and we strain each nerve to perform the work of the hour, looking forward to the time when labor shall have passed away and honor and fame shall await us. Ninety-Six has reached positions of prominence in all

Technology institutions. It has representatives on the board of editors of *The Tech*, supplies musicians to the Glee and Banjo Clubs, and stands far ahead of the other classes in athletics. With the Junior Assembly just before us, and many worlds about to be conquered, may Ninety-Six reach the high-water mark of Technology ambition, and be thus envied and looked up to by each succeeding class.



# SOPHOMORE



CLASS OF 97



# Class of Ninety-Seven.

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## YELL.

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

Colors: Orange and Black.

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## Officers.

### *President.*

HENRY WALTER ALLEN.

### *Vice Presidents.*

WILLIAM CHAPMAN POTTER.      WALTER HUMPHREYS.

### *Secretary.*

THOMAS MCINTIRE VINTON

### *Treasurer.*

WILLIAM THORNTON PARKER.

### *Executive Committee.*

JOSEPH BANCROFT.      SHELDON LEAVITT HOWARD.

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## History of the Class of Ninety-Seven.

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HAT the Class of '97 has many attributes which distinguish her from the classes which have preceded her at Tech, is well known to even the greenest Freshie. Her most marked characteristic, however, can best be described by the word "foxy." That word was born for '97; it fits her as a "lab." coat fits a Freshman; for, for pure foxiness, the Sophomore Class can give the whole deck to "Brer Fox," who, until '97's advent, held the record for "lyin' low."

One year ago we entered Tech, loaded down with foxiness. Of course we had the usual argument with the Sophs on the etiquette of class meetings, the usual lecture from Linus on bunco games, the usual attempts to buy instruments from that long-suffering gentleman, and the usual number of deaths from ingrowing tabular view. With consummate foxiness we

frustrated the attempts of Boston Populists to run the class, drew up a magnificent constitution,—much too good for everyday uses,—and as a final *coup de Renard*, elected a man from Maine president. Not long after this masterstroke we had our first introduction to Tech athletics. Our football team made a splendid showing, scoring as one of the strongest class teams Tech has known. In the cane rush, while not as successful as at football, we did as Harvard did at Springfield this year, and scored a moral victory. Moral victories, however, could not be cashed in, and consequently Ninety-Six temporarily wore diamonds. Through some misunderstanding of the tabular view, the majority of the class cut the rush instead of lectures; and while the little handful who found the South End Grounds fought nobly, they were overpowered by numbers—and Ben Hurd.

After this we devoted our energies to keeping our hats off in the drawing room and dodging hydrogen generators in the Lab., until the time came for the Class Dinner. Of all the dinners since Tech students took to dining, that dinner went ahead by several lengths. More men were present than had ever been at any Tech dinner before '97 set the pace. Everybody was there except S—. He fully intended to come, but at the last moment learned there were to be finger bowls on the table, and was stricken down with a previous engagement. Everything was of the best.

“The pastry wasn't made of paste, for it was genuine;  
The soup was very popular, for it was superfine.”

The decorations were elaborate, and the *ménus* artistic; but the oratory!—ah! the brand of oratory that was served at that dinner without doubt made Demosthenes turn green with envy. Tom Vinton's impromptu remarks on “Hats” should have been framed for the “Trophy Room,” and Bragg's oration on “The Ladies—as I Have Found Them,” will send his name down to posterity as the first humorist of his day if he never says another word. The fulfillment of this last condition is essential to his future fame.

Then came the baseball game with '96, and we scored another moral victory, and incidentally established a reputation for courtesy. A few days before the game the Sophs came to us and said they had no catcher, and unless they could corral a man to juggle Burnett's curves, there could be no game. We offered them the 'Varsity catcher, but they thought on the Williams game, and said they were not looking for a seine. To prevent the sacrifice of the game we said they might take ours. They accepted, and Howland was given his release and permission to catch for '96. Much as he disliked to play against his class, he sunk personal feelings for the general good, and saved the day for '96. But the feature of the game was unquestionably Walter Page's catch in deep right. When I try to describe

that catch language fails. It is sufficient to say, that after two handsprings and a dive of twenty feet, Walter grabbed the ball, and the German bands went wild. It is to Page's credit that the offers of the Boston baseball magnates could not tempt him to pass all the glories of a five years' course at Tech. After the game came the exams., and then we went home; some to stay, some to work off conditions, and some to try to.

This working off conditions is a misunderstood and much maligned business. It means merely that instead of daily continuing to invite a watery grave by prolonging your summer's cruise, you shall hie yourselves homeward a little earlier than usual in order to pursue substantial though unenchanting rewards. It means, that instead of allowing the cussedness of fate some twenty more days in which to fill us full of buckshot from an accidentally discharged gun somewhere in the wilds of Maine, we shall return to the haunts of civilization and the seclusion of study, with sound and unsievelike persons, and in consequence we may cast more imposing and less percolable shadows before us when we shall have become Sophomores. Those are few, I am sorry to say, who are able to take this philosophical view of things. College men, weak and frail as they doubtless are, are oftener wont to be annoyed and grieved upon the receipt of reports full of F's,—yea, indeed, they have been known to fling curses upon high Heaven for those things, for which the blame lies rather with themselves and with our Linuses than with that blessed abode.

Things are now changed, however. Our chances for untimely ends during the vacation are augmented in the ratio of the time of the whole vacation to the whole vacation minus the part usually spent in plugging,—to state it mathematically. Conditions are now made up in May, and the prospect is indeed dismal. We all enjoyed those calm days of study early in September, and we shall miss them sorely. 'Twas surely unkind in the Faculty to make so radical a change without consulting us, who are the most interested parties, and we assure that worthy body that we feel the slight in no small degree. However, most of us will stand it, I presume, and all will run nearly as smoothly as before. But I digress.

September found us once more in the classic halls of Tech, slightly reduced in numbers, but with foxiness several points above par. In vain did our old enemies, now Juniors, try to fill our minds with pictures of flunks in Physics and Descrip. Our courage was unshaken, for we thought on how we had pulled through "Qualitative" by means of Pete Burns' leg; and at the first class meeting, when Harry Allen was, as usual, elected president, the motto, "Where there's a leg there's a way," was added to the class crest. Soon talk of the cane rush was heard on all sides, and *The Tech* gravely announced that lack of class spirit or abundance of cowardice

in '97 would probably cause the abandonment of this time-honored custom, —and '97, "she kep' on layin' low."

As class etiquette requires that the Sophs' flag float over the rush, we made plans to do our part. Thanks to a little bird, we learned of the Freshman's plans to get their banner up first, and soon a general alarm was sent out. Within an hour nearly one hundred Sophs were at the ball grounds looking for trouble. Such a speedy mobilization of forces was unprecedented in American history. The record previously held by the Minute Men was shattered; for, while these illustrious gentlemen were good as mobilizers, they were distinctly not in our class.

After a spirited argument with a gentleman named Haggarty, who had charge of the grounds, and a large hungry bloodhound, we were presented, for a consideration, with the freedom of the place. This gentleman then retired, to be succeeded by a younger brother, with a bimetallic palm, who thought we had better leave. He was open to conviction, however, so we stayed. Not long afterwards the head of the house of Haggarty appeared. It then became a question whether '97 could issue bonds faster than the Haggarty family could issue brothers. For a time the situation was grave; but soon word was brought that the Haggarty twins were at a wake in Chelsea and could not be produced. We were saved!

All through the night we watched our flag, vainly trying to sustain life with "hot dog" sandwiches and large draughts of chilly air. At last day came, and, by the dawn's early light, the Freshmen had the discomfiture of seeing the yellow and black at the top of the pole. In vain did they look for their own bunting, in vain did they search for some trace of Leiper's patent piazza, which had been designed, at great expense, to go round the pole like a caterpillar trap and smother adventurous climbers, they were *non est*. Lack of space forbids a description of the many rushes around the pole during the morning. Suffice it to say that we captured '98's flag, and that our own ensign, torn and scarred with battle as it was, waved damply, but proudly, throughout the day.

In the afternoon our procession left the Gym, headed by the finest German band that Chelsea could produce; and so veteran-like was our marching, so pleasing our banners and effigies, that we were wildly cheered by the faculty and students of the Medical School. On reaching the grounds we gave an exhibition of fancy marching that would have made the H. of W. K. feel he had not lived in vain, and served as balm for a broken heart. Then began the football game, but the splendid showing of our team is too well remembered to need any description here. Sufficient is it to say, that when time was called the enemy was ours by ten points to nothing. No time was lost in beginning the rush, and here again '97

proved her prowess. Although handicapped by having less than the customary time in which to break '98's *torus*, with such irresistible force did our wedges strike, and with such marvelous agility did we climb over the heads of the Freshmen, that after twenty minutes of cruel, death-dealing war the cane was ours by twenty-two hands to nine.

Now the work of the Historian is done, and for a further account of '97's triumphs we must wait until the Prophet speaks. What the future has in store for us we can only guess; but this we can say with certainty, that the years to come will testify, as have those just passed, that Technology has no more loyal sons than those of her children who twine the yellow and black about the red and gray.



Copley Square Twenty Years Ago.





# Class of Ninety-Eight.

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## 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!

Colors: Blue and Gray.

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## Officers.

### *President.*

WILLIAM MONTAGUE HALL.

### *First Vice President.*

RAYMOND SMITH WILLIS.

### *Second Vice President.*

REGINALD SPRAGUE TOBEY.

### *Secretary.*

HERBERT IVORY LORD.

### *Treasurer.*

ALLSTON SARGENT.

### *Directors.*

JOSEPH LAWRENCE MARA.

ERNEST FRANK RUSS.

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## Class History of Ninety-Eight.



PLACE of wide renown and high repute  
Is this, our Massachusetts Institute;  
And so each year there come from South and North,  
From East and West, great hordes of youngsters forth,  
Of long-haired grinds and athletes strong of will,  
To study "Trig" and military drill,  
Burning with thirst for knowledge, — and for "mun," —  
Great piles of which from Science may be won.  
Of thee, whom men call Class of Ninety-Eight,  
My task it is the story to relate.

Upon a sunny, bright September morn,  
As an organic whole this class was born.  
Single component Freshmen stroll about,  
Lonely and vague 'mid Upper Classmen's rout.

No jovial greeting falls upon their ears,—  
Only the stately Sophs' sarcastic sneers;  
While venturous ones, who step too near the cage,  
Fall helpless prey t' ornithologic rage.  
Midst all this Babel and confusion wild,  
There hurries, calm, polite, collected, mild,  
The Secretary, guider of the whole,  
A rock about which angry billows roll.  
Meanwhile, when tabular views' mysterious ways  
Have been deciphered, the fond Freshman pays  
Sums fabulous for drawing instruments.  
Bereft of all his dollars and his sense,  
He vows that this expense must quickly stop;  
Then goes and buys some more at the "Co-op."  
And after he has heard the warning given  
Against late hours of study,—say eleven,—  
Thinking there's no one finer than the Prex,  
Becomes one of the *bona fide* "Techs."

Now, settled down, at last, to serious toil,  
Behold the Freshmen's lily fingers soil  
With nitric acid, and sulphuric too,  
While in the "Lab" their little pots they brew  
Of vile decoctions, evil to the nose,  
And break much glass, and ruin many clothes.  
And when, within the sacred lecture-hall,  
They hear the Prof. declare before them all,  
"This jar of colorless gas, as now you see,  
Is brown in color," then they all agree  
That it was nothing but a Papal bull,  
And hurry off with thoughts of wisdom full.

At the South Armory, those who come not late,  
And thus in safety pass the dreadful gate,  
Disport upon the floor in jovial wise,  
Sit on their heels, and on their tiptoes rise.  
Here roams the sergeant, great in dignity,  
And mighty corporals you eke may see.  
Then there are some who live from morn till night  
Beneath the drawing room's electric light;  
And thus the board on which the record's kept,  
Is covered with that mark, Credit yclept.

Meanwhile some still find opportunity,  
In tuneful joys, to seek immunity  
From carking care; and so the Glee Club gains  
Five sturdy throats. One Freshman, too, attains  
The Banjo Club; while on the football field,  
Two Freshmen laurels to none other yield.  
Besides, a record-breaker in the dash,  
And a Tech Editor, who makes the cash.

Meanwhile the class elections had been held,  
With many hostile tickets in the field;  
A constitution was at last obtained  
Though storm and tumult in the meeting reigned.  
The sprinter stands as firm as carven stone,  
While round him angry classmates howl and moan;  
One man alone a word of wisdom speaks,  
Who, later, presidential honor seeks.  
When the election actually took place,  
A printed ticket stared us in the face,  
Whose end and aim purported just to be  
A certain clique's defeat. Unhappily  
This desperate, dangerous clique was found to lack  
A bodily existence; and, in fact,  
There was no such. The heroes of the hard  
And stormy meeting met their just reward:  
The stony sprinter treasurer was made;  
And he who angry Discord's ghost had laid,  
Is president. And so for all the rest,  
And each for his especial place is best.

November twelfth, O day of grim despair!  
The Freshman-Soph'more cane rush fills the air.  
The Sophs' innocuous desuetude  
Was shocking, and the Freshmen had a "pud."  
Yet when the vanguard bold of '98,  
At 4 A. M., came to the ball-grounds' gate,  
They found the Sophs had somehow cared enough  
To watch the grounds all night, through cold most tough.  
Their flag, however, in the later morn,  
From its proud height was rudely, harshly torn.  
Leiper became a climber for the nonce,  
And in the action nearly cracked his scone.

When time at last arrived the game to play,  
 Behold the classes march to music gay.  
 The band of '97 was the best;  
 Their rivals' effigies, in long clothes dressed,  
 With ribald mottoes did they bear along;  
 And after came a most gigantic throng.  
 'Twas said the Sophomores would not turn out,—  
 Ye gods! then whence comes all this mighty rout?  
 Our light eleven played a noble game,  
 And against heavy odds gained store of fame—  
 But yet they lost. And then a solemn hush  
 Falls on the crowd. For now begins the rush.  
 Three mighty wedges, dark, and grim, and fierce,  
 Come thundering down, our little ring to pierce.  
 A shock, a shiver, shoves, and shouts, and shrieks,  
 Squashed, squelched, and squealing, each for victory seeks;  
 And breathlessly, at last, when all is o'er,  
 We stagger back, and hear the fatal score.  
 'Twas twenty hands to nine, and older men  
 Just murmured sadly, "Freshmen sold again!"  
 "Happy the class without a history:"  
 This well may be; but most unhappy he  
 Who tries to write the tale of such a class.  
 In future years this want away will pass;  
 And many things there will be to relate  
 In later times of Class of Ninety-Eight.





# Greek-Letter Fraternities

of 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.
1864.	Kappa.	Bucknell University	Lewisburg, Penn.
1866.	Zeta.	Washington and Lee University	Lexington, Va.
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.
1877.	Theta Theta.	University of Michigan	Ann Arbor, Mich.
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, Kan.
1884.	Alpha Nu.	University of Texas	Austin, Tex.
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.
1891.	Kappa Kappa.	University of Illinois	Champaign, Ill.
1892.	Alpha Psi.	Vanderbilt University	Nashville, Tenn.
1892.	Alpha Omega.	Leland Stanford, Jr., University	Palo Alto, Cal.
1893.	Eta Eta.	Dartmouth College	Hanover, N. H.
1893.	Alpha.	Miami University	Oxford, Ohio.
1893.	Alpha Alpha.	Hobart College	Geneva, N. Y.
1894.		Columbia College	New York City.
	Upsilon.	Columbian University	Washington, D. C.

# Sigma Chi.

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## ALPHA TAU CHAPTER.

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### Members.

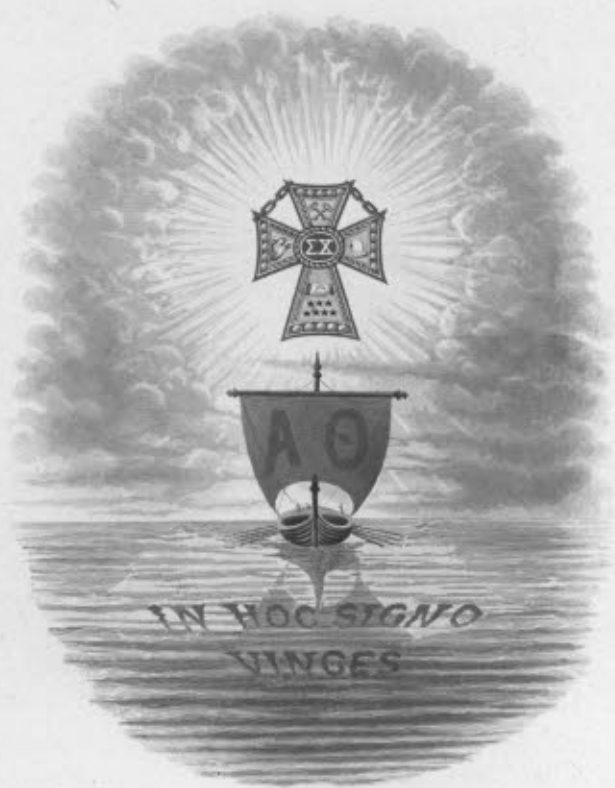
HARRY STEVENS DUTTON.  
WILLIAM HENRY FOX.  
JAMES THOMAS HARAHAH, JR.  
LEWIS ANDREWS HAYDEN.  
WILLIAM ABBOTT HAZARD.  
RHODES GREENE LOCKWOOD.  
HARRY NESBIT.

CHARLES BODWELL PAINE.  
JOHN SHELLEY PECHIN.  
HARRY DUSTAN RAWSON.  
HARRY JONES SHEAFE.  
RICHARD BRINSLEY SHERIDAN.  
LUCIUS SPAULDING TYLER.  
ERNEST WOODYATT.

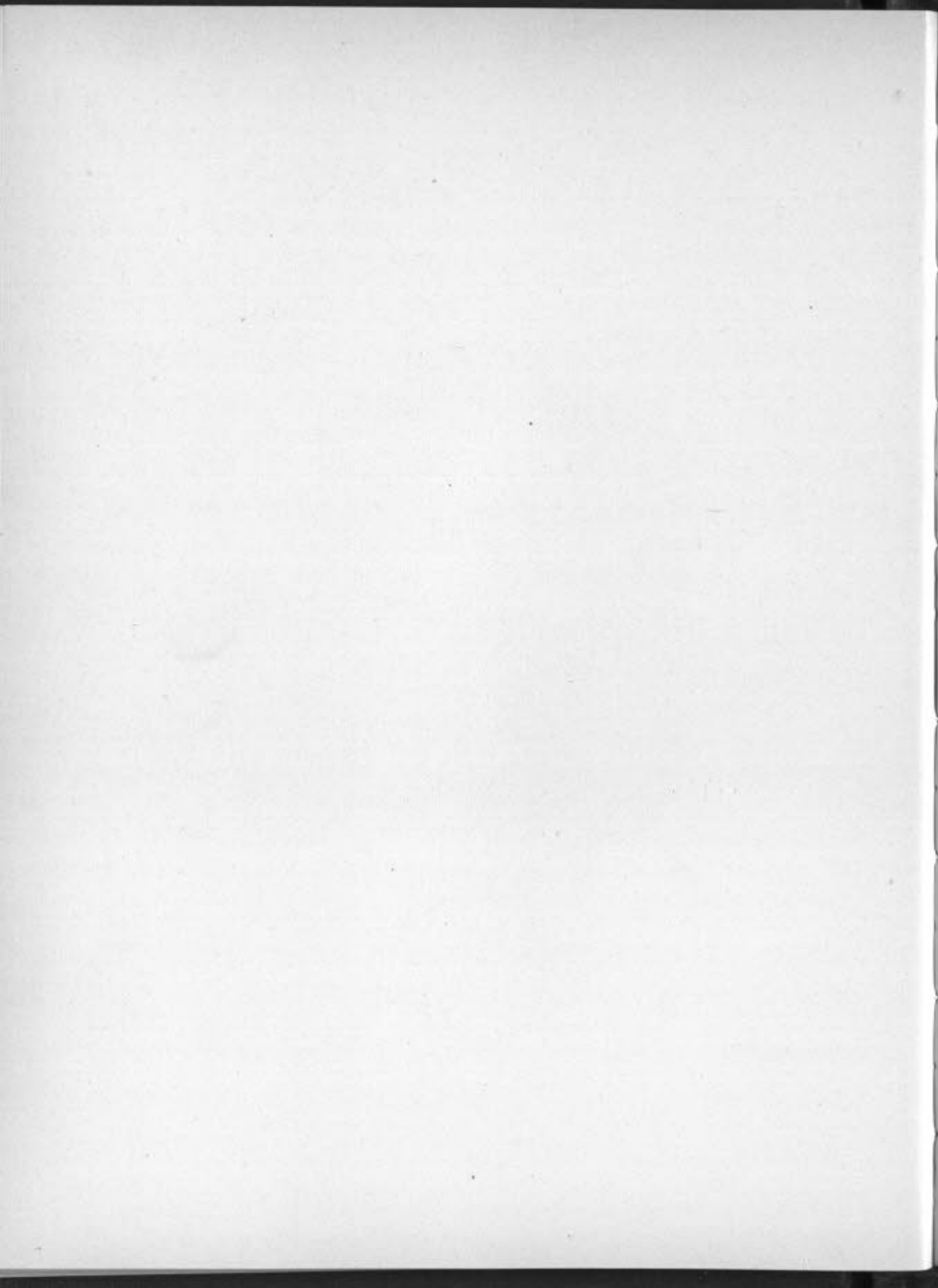
### Fratres in Urbe.

C. R. BOSS.  
C. E. LOCKWOOD.  
H. T. BARDWELL.  
C. L. NUTTER.

W. W. CUTLER.  
F. OSGOOD.  
J. A. HIGHLANDS.  
F. L. PIERCE.



DRUGA, PHILA.



# Theta Xi.

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## 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.

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### Members.

MARK WEBB ALLEN.  
BUTLER AMES.  
WILLIAM POPE ANDERSON, JR.  
JOSEPH BANCROFT.  
ALFRED LINDSAY BARRETT.  
PEDRO URQUIZA Y BEA.  
WALTER TRUMBULL CAMP.  
WILLIAM HENRY CLIFFORD, JR.  
FRANKLIN WHITNEY DOLIBER.  
CHARLES HARDY ELY.

DAVID DUDLEY FIELD.  
RICHARD STANLEY HOWLAND.  
EDWARD JOHNSON, JR.  
GEORGE PARK LAWSON.  
GORDON MCKAY MELLEN.  
JOHN ARNOLD ROCKWELL, JR.  
RALPH ROLLINS RUMERY.  
JAMES WARNER SHOOK.  
EDWARD STURTEVANT.  
JAMES WINTHROP TEWKSBURY.

REGINALD SPRAGUE TOBEY.

### Fratres in Urbe.

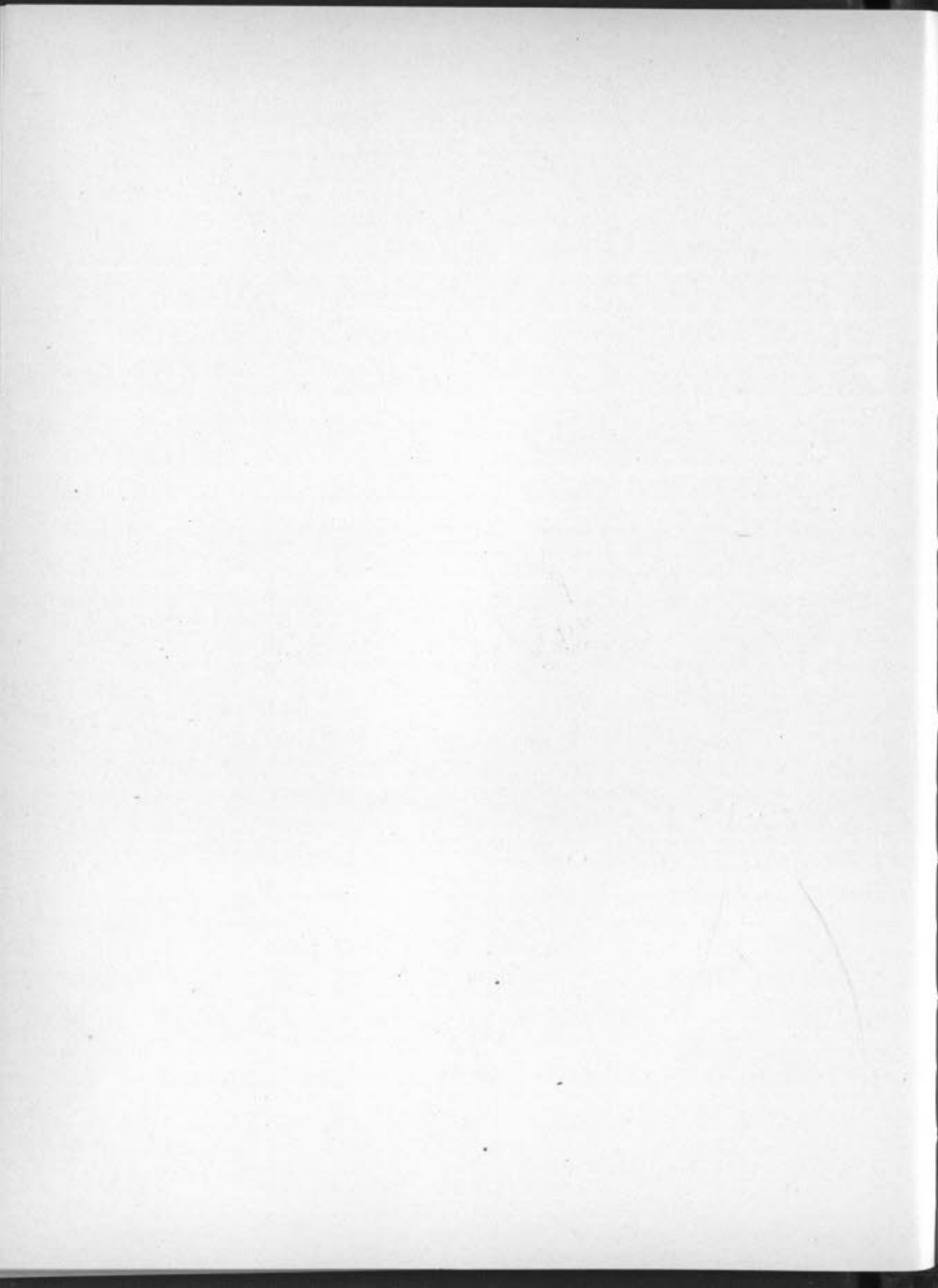
TIMOTHY WILSON SPRAGUE.  
MORTON EDDY COBB.  
HENRY JOHN CONANT.  
EDWARD LYMAN BROWN.  
CHARLES HAYDEN.  
HERBERT STURGIS POTTER.  
HARRY HAYWARD YOUNG.  
ALFRED MILLARD BLINN.  
FREDERICK WAIT LORD.  
THOMAS SWIN CHAPMAN.  
ALBERT FARWELL BEMIS.  
ARTHUR HUMPHREYS ALLEY.

HARRY ELLSWORTH CLIFFORD.  
EDWARD BRYANT RANDALL.  
HENRY ADAMS MORSS.  
JAMES HENRY REED, JR.  
DAVID JEROME SPENCE.  
WILLIAM LEE CHURCH.  
HORATIO SOUTHWORTH FRAZER.  
JOHN COWPER EDWARDS.  
GEORGE CLEMENT COLBURN.  
WILLIAM FLOYD SPALDING.  
NATHAN BROWN DAY.  
HENRY GREENLEAF PEARSON.





*Dundee, Phila.*



# Delta Psi.

---

## Chapter Roll.

A.	Columbia College	.	.	.	.	.	.	.	New York City.
Δ.	University of Pennsylvania	.	.	.	.	.	.	.	Philadelphia, Penn.
E.	Trinity College	.	.	.	.	.	.	.	Hartford, Conn.
I.	University of Rochester	.	.	.	.	.	.	.	Rochester, N. Y.
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.

---

### Members.

HENRY WALTER ALLEN.

WILFRED BANCROFT.

DANIEL MOORE BATES, JR.

CHARLES WILLARD BIGELOW.

ROBERT CAMPBELL CLARKE.

ALBERT EDMUND CLUETT.

HENRY MIDDLEBROOK CRANE.

HENRY DISSTON.

JAMES TURNER FITTEN.

FRANCIS CUSHING GREEN.

JOHN SANFORD HUMPHREY.

JOHN PARKER ILSLEY, JR.

SAMUEL FOSDICK JONES.

BRYCE METCALF.

MALCOLM HOBART MCGANN.

WALTER PAGE.

WILLIAM THORNTON PARKER.

EDWARD BRIDGE RICHARDSON.

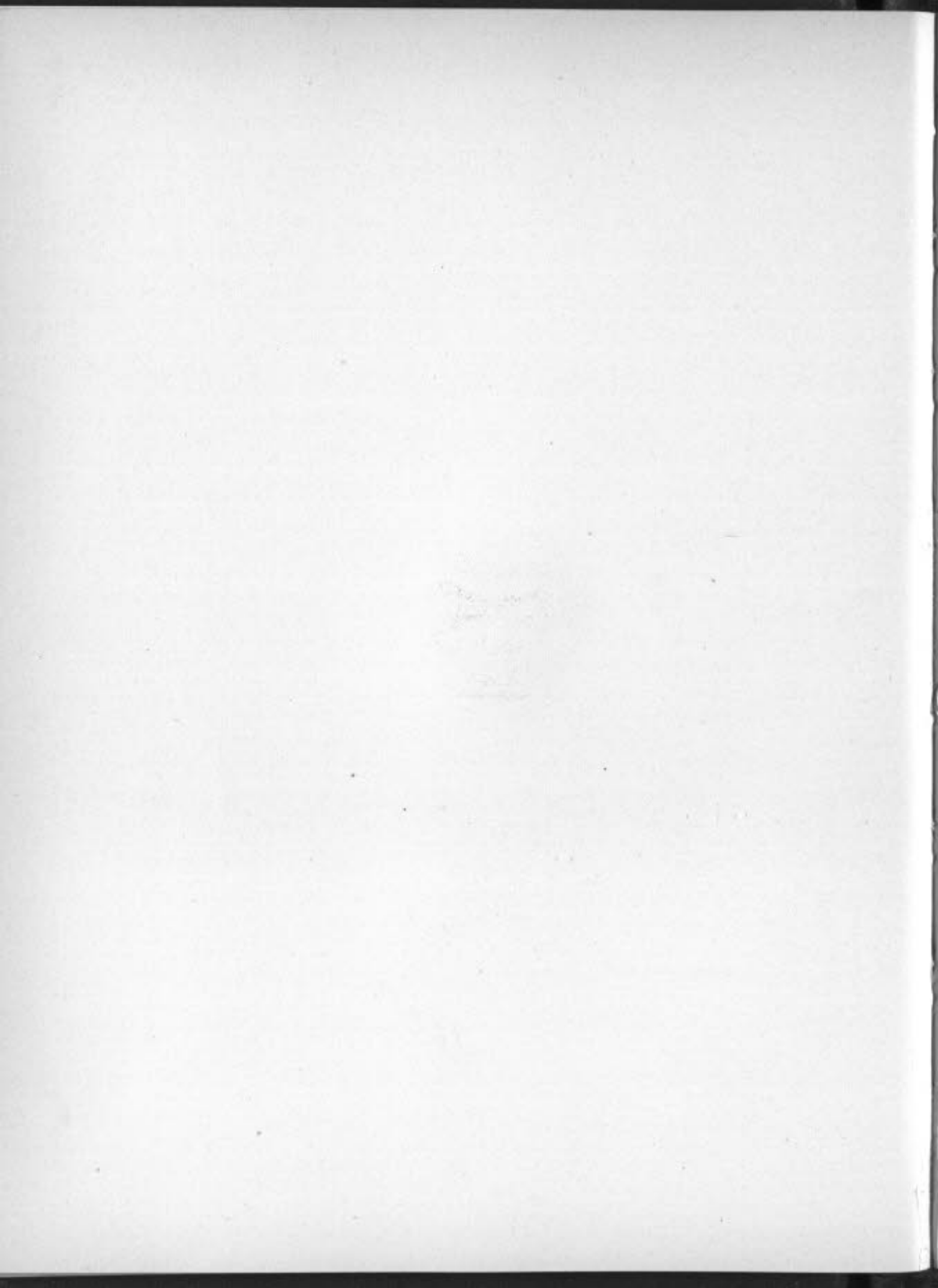
ANDREW LE BARON RUSSELL.

ROBERT WESSELHOEFT SWIFT.

RICHARD BENEDICT VAN HORNE.



Journal





# Chi Phi.

Founded 1824, at Princeton, New Jersey.

## Chapter Roll.

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

# Chi Phi.

---

## BETA CHAPTER.

---

### Members.

HENRY MORGAN APPLETON.

JAMES SAXTON BARBER.

WILLIAM HENRY BARLOW.

DUANE LEROI BLISS, JR.

WALTER DANFORTH BLISS.

CHARLES WYLIE DAVIS.

WILLIAM EDWARD DAVIS, JR.

EDWARD ASHLEY EAMES.

HARRY GEORGE FISK.

CHARLES PERKINS MOAT.

GEORGE MOORE.

HOWARD AGNEW NOBLE

HARRY BROOKS SARGEANT.

CARL SCHUTTLE.

BENJAMIN HALSTED SHEPARD.

GEORGE FREDERICK ULMER.

ARTHUR PERLEY UNDERHILL.

THOMAS MACINTIRE VINTON.

WALTER CHAUNCEY WATROUS.

HERBERT JEREMIAH WATSON.

### Fratres in Urbe.

ROSS FRANCIS TUCKER.

WILLIAM HARTLEY DENNETT.

JAMES VAUGHAN DENNETT.

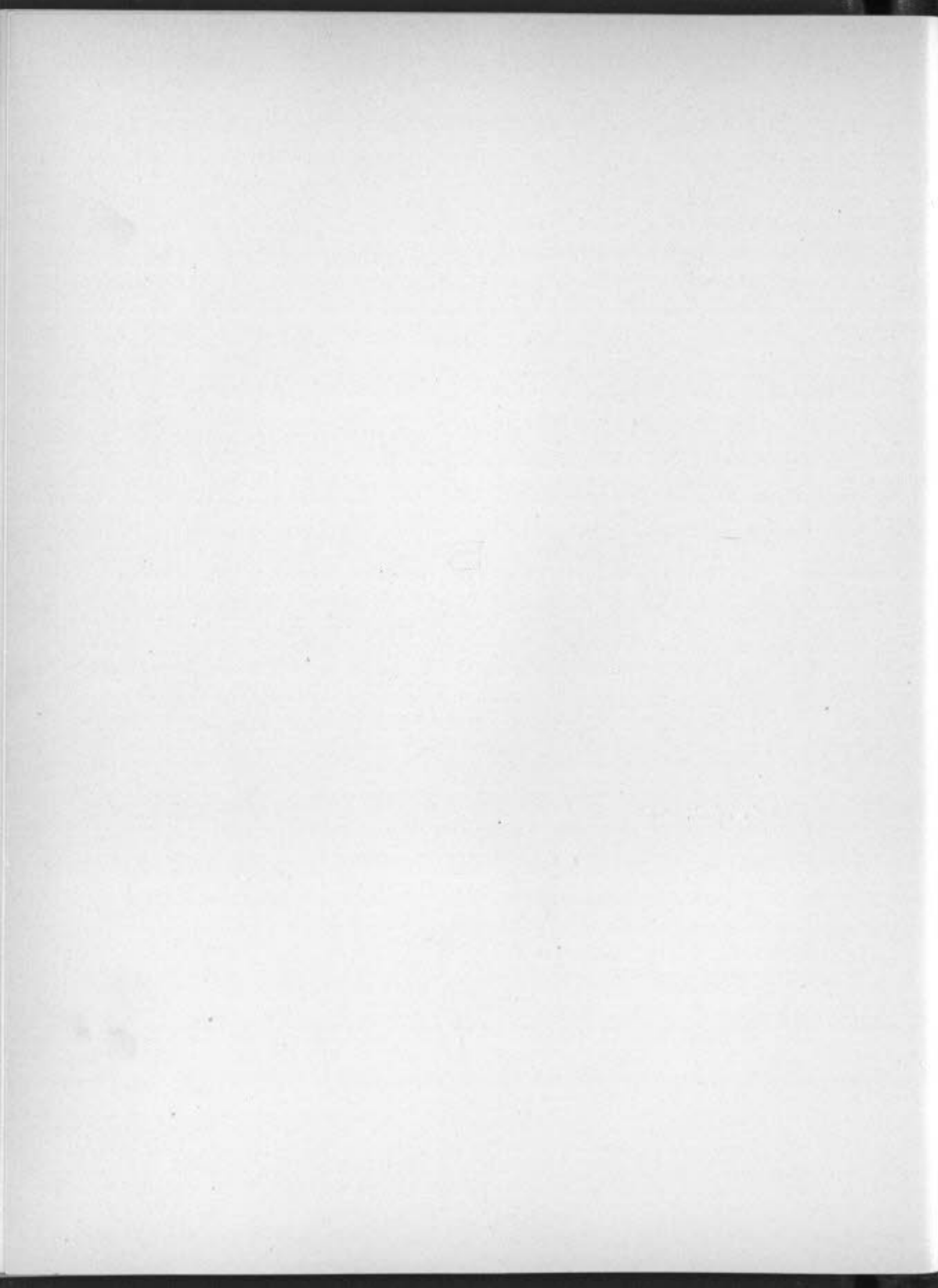
LEONARD CHASE WASON.

HERBERT EUGENE DAVIS.

HARRY SARGENT GILMAN.



*Drexler Photo*



# Delta Kappa Epsilon.

## Chapter Roll.

Phi.	Yale University . . . . .	1844
Theta.	Bowdoin College . . . . .	1844
Xi.	Colby University . . . . .	1845
Sigma.	Amherst College . . . . .	1846
Psi.	University of Alabama . . . . .	1847
Gamma.	Vanderbilt University . . . . .	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.

GARDNER ABBOTT.

HENRY SILL BALDWIN.

FREDERICK WALDO BARTLETT.

EDMOND DRINAN BARRY.

THOMAS BUTLER BOOTH.

THOMAS THAYER BRACKETT.

GEORGE BURNHAM.

HARRY PUMPHREY CODDINGTON.

WINTHROP COOLIDGE.

WILLIAM HENRY CUTLER.

ROBERT SAMUEL HARDY.

OSWALD CONSTANTIN HERING.

WALTER HUMPHREYS.

EDWARD LAWRENCE HURD.

ALLAN WINCHESTER JACKSON.

PERCIVAL FARNHAM LAWRENCE.

HORACE MANNING.

HENRY ORLANDO MARCY, JR.

REGINALD NORRIS.

WILLIAM CHAPMAN POTTER.

WILLIAM OTIS SAWTELLE.

ROBERT KIMBALL SHEPPARD.

JAMES SWETT SMYSER.

WILLIAM HENRY TEW.

MAURICE DEKAY THOMPSON, JR.

EDWARD AUSTIN TUCKER.

THURLOW WASHBURN.

RALPH SPELMAN WHITING.

### Fratres in Urbe.

HERBERT WATSON ALDEN.

EDMOND ENOS BLAKE.

FREDERIC CHAMBERS BLANCHARD.

SEVERANCE BURRAGE.

ARTHUR GEORGE FARWELL.

WILLIAM STUART FORBES.

GAYLE TILTON FORBUSH.

ARTHUR EDWIN FOWLE.

GEORGE EARNEST MERRILL.

LEONARD METCALF.

JAMES SWAN.

GEORGE VINCENT WENDELL.







# Phi Beta Epsilon.

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Founded 1890.

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LOCAL AT TECHNOLOGY.

# Phi Beta Epsilon.

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## Members.

AZEL AMES, 3D.  
EDWARD ARTHUR BALDWIN.  
LATIMER WILLIS BALLOU.  
HERBERT PAGE BEERS.  
MAURICE WELLS BIGELOW.  
EDWARD ELIAS DENISON.  
ROBERT LINCOLN DENISON.  
HENRY BELIN DU PONT.  
IRÉNÉE DU PONT.  
FREDERICK CROMWELL FIELD.  
GEORGE ISAAC FISKE.  
ANDREW DANIEL FULLER.  
FREDERICK WILLIAM FULLER.

GEORGE ARTHUR FULLER.  
ROBERT LESURE FULLER.  
WILLIAM MONTAGUE HALL.  
GEORGE WELLINGTON HAYDEN.  
SHELDON LEAVITT HOWARD.  
GEORGE REUBEN HOWARTH.  
BENJAMIN HURD, JR.  
EDWARD HALEY HUXLEY.  
GEORGE MASON LANE.  
GEORGE FREDERIC SHEPARD, JR.  
WALTER MULLIKEN STEARNS.  
CHARLES FOSTER TILLINGHAST.  
JAMES WINTHROP THOMAS.

## Fratres in Urbe.

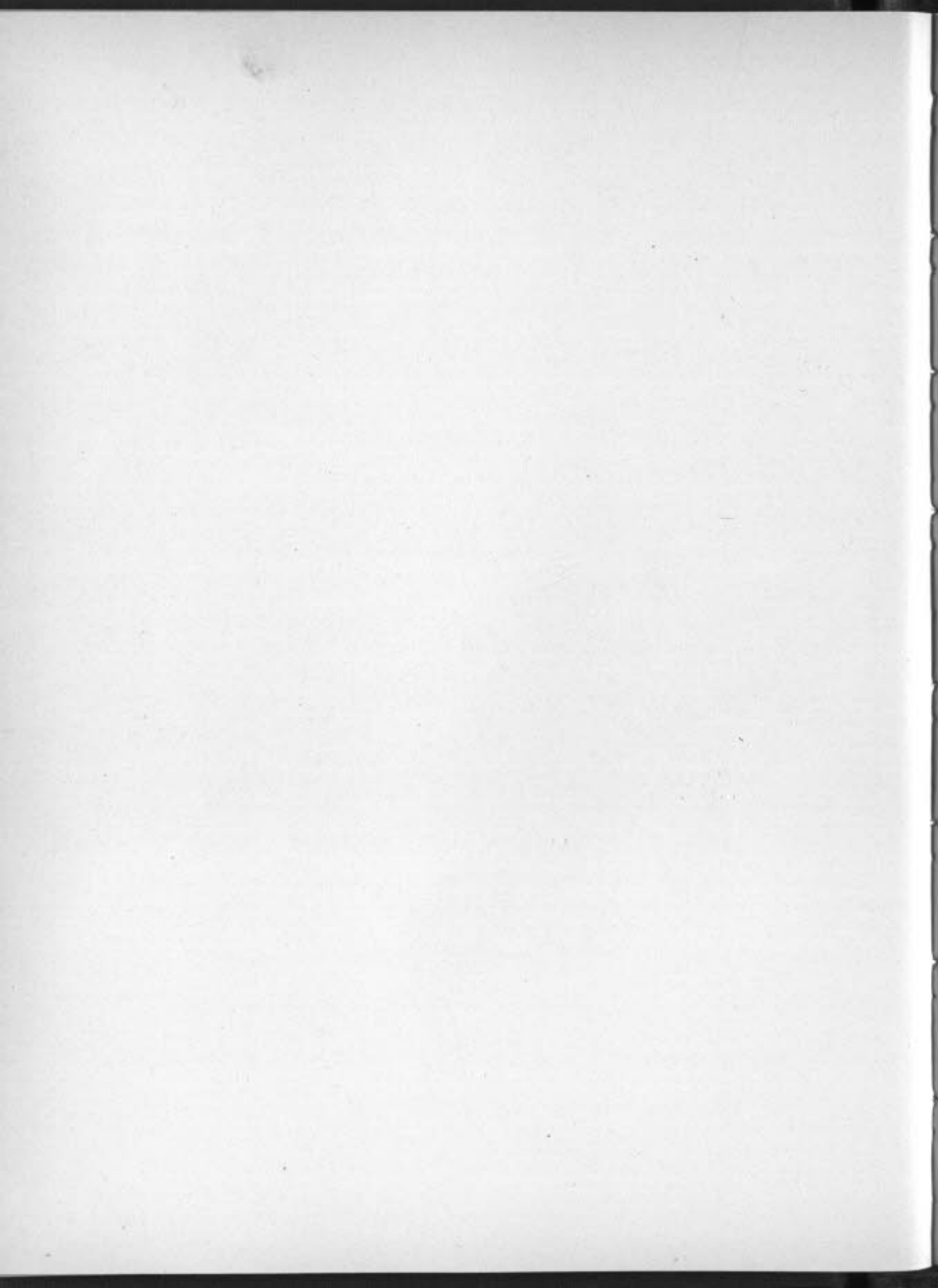
CHARLES WILSON AIKEN.  
AUSTIN DUNHAM BOSS.  
STEPHEN BOWEN.  
FRED ALLEN COLE.  
HENRY ANTHONY FISK.  
SUMNER HATHERLY FOSTER.

CHARLES ARTHUR MEADE.  
RAYMOND BEACH PRICE.  
GEORGE WHITEFIELD FAY REED.  
GEORGE WILMARTH SHERMAN.  
WILLIAM COOLIDGE THALHEIMER.  
JOHN GIFFORD THOMPSON.

CHARLES NELSON WRIGHTINGTON.



*Deeken, Phila.*



# Delta Upsilon.

Founded at Williams College, 1834.

## Chapter Roll.

1834.	Williams	.	.	.	.	.	.	.	.	Williamstown, Mass.
1838.	Union	.	.	.	.	.	.	.	.	Schenectady, N. Y.
1847.	Hamilton	.	.	.	.	.	.	.	.	Clinton, N. Y.
1847.	Amherst	.	.	.	.	.	.	.	.	Amherst, Mass.
1847.	Adelbert	.	.	.	.	.	.	.	.	Cleveland, Ohio.
1852.	Colby	.	.	.	.	.	.	.	.	Waterville, Me.
1852.	Rochester	.	.	.	.	.	.	.	.	Rochester, N. Y.
1856.	Middlebury	.	.	.	.	.	.	.	.	Middlebury, Vt.
1857.	Bowdoin	.	.	.	.	.	.	.	.	Brunswick, Me.
1858.	Rutgers	.	.	.	.	.	.	.	.	New Brunswick, N. J.
1860.	Brown	.	.	.	.	.	.	.	.	Providence, R. I.
1865.	Colgate	.	.	.	.	.	.	.	.	Hamilton, N. Y.
1865.	New York	.	.	.	.	.	.	.	.	New York City.
1869.	Cornell	.	.	.	.	.	.	.	.	Ithaca, N. Y.
1870.	Marietta	.	.	.	.	.	.	.	.	Marietta, Ohio.
1873.	Syracuse	.	.	.	.	.	.	.	.	Syracuse, N. Y.
1876.	Michigan	.	.	.	.	.	.	.	.	Ann Arbor, Mich.
1880.	Northwestern	.	.	.	.	.	.	.	.	Evanston, Ill.
1880.	Harvard	.	.	.	.	.	.	.	.	Cambridge, Mass.
1885.	Wisconsin	.	.	.	.	.	.	.	.	Madison, Wis.
1885.	Lafayette	.	.	.	.	.	.	.	.	Easton, 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.



# Delta Upsilon.

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## TECHNOLOGY CHAPTER.

---

### Frater in Facultate.

FRANK VOGEL.

### Members.

FRANKLIN EVERETT BRAGG.  
JOSEPH WARD CLARY.  
ALFRED KIMBALL DOWNES.  
WASHINGTON CHARLES DRUM.  
CHARLES WARREN HAPGOOD.  
HENRY ATKINSON HOLDREGE.  
ETHAN HENRY HOWARD.  
MAURICE LeBOSQUET.  
DONALD CLEVELAND SCOFIELD.  
WALTER OSGOOD SCOTT.

JOHN CARLTON SHERMAN.  
ALFRED PRITCHARD SLOAN, JR.  
GRANVILLE SMITH.  
EDWARD ALLEYNE SUMNER, JR.  
HERMAN VALENTINE VON HOLST.  
WARD WELLINGTON WARD.  
THOMAS ROTE WEYMOUTH.  
LUTHER KELLAR YODER.  
HENRY YOERG.  
ALFRED EDWARD ZAPP.

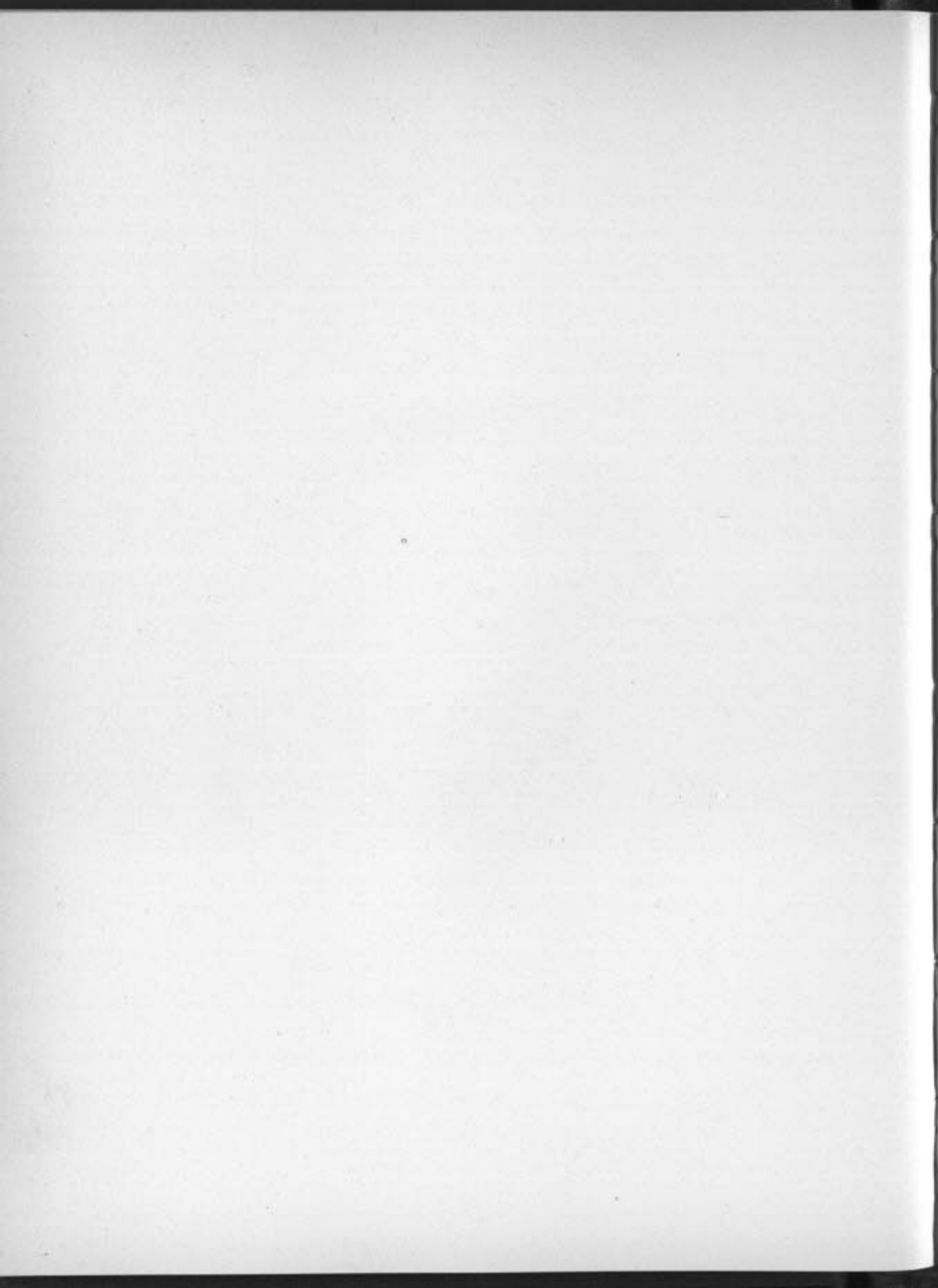
### Fratres in Urbe.

JOSHUA ATWOOD, 3D.  
FREDERICK EDWARD COX.  
LOUIS DERR.  
ALBERT LINCOLN KENDALL.  
WILLIS TAYLOR KNOWLTON.  
WALTER ELBRIDGE PIPER.

THOMAS GLEASON RICHARDS.  
FRANK CUMMINGS SHEPHERD.  
RALPH HAYES SWEETSER.  
ALFRED BALL TENNEY.  
JAMES RUSSELL WELLS.  
WILLIAM CARTELYAN WHISTAN.



*Dreka, Thos.*



# 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. Alpha.	Cornell University . . . . .	Ithaca, N. Y.
Penn. Omega.	Allegheny College . . . . .	Meadville, Penn.
Penn. Sigma Phi.	Dickinson College . . . . .	Carlisle, Penn.
Penn. Alpha Zeta.	Penn. State College . . . . .	State College, Penn.
Penn. Delta.	Pennsylvania College . . . . .	Gettysburg, Penn.
Penn. Zeta.	Bucknell University . . . . .	Louisburg, 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.	Purdue University . . . . .	Lafayette, Ind.
Ky. Kappa.	Central University . . . . .	Richmond, Ky.
Ky. Iota.	Bethel College . . . . .	Russelville, 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 . . . . .	Jacksonville, Tenn.
Ala. Mu.	University of Alabama . . . . .	Tuscaloosa, Ala.
Ala. Iota.	Southern University . . . . .	Greenboro, Ala.
Ala. Alpha Mu.	Alabama A. and M. College . . . . .	Auburn, Ala.
Miss. Gamma.	University of Mississippi . . . . .	Oxford, Miss.
Ia. Sigma.	Simpson College . . . . .	Indianola, Iowa.
Mo. Alpha.	University of Missouri . . . . .	Columbus, Mo.
Mo. Beta.	Washington University . . . . .	St. Louis, Mo.
Neb. Lambda Pi	University of Nebraska . . . . .	Lincoln, Neb.
Ark. Alpha Upsilon.	University of Arkansas . . . . .	Fayetteville, Ark.
Texas Rho.	University of Texas . . . . .	Austin, Texas.
Col. Chi.	University of Colorado . . . . .	Boulder, Col.
Col. Zeta.	University of Denver . . . . .	Denver, Col.
Cal. Alpha.	Leland Stanford, Jr., University . . . . .	Palo Alto, Cal.
Cal. Beta.	University of California . . . . .	Berkeley, Cal.

# Sigma Alpha Epsilon.

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## MASSACHUSETTS IOTA TAU CHAPTER.

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### Members.

WALLACE CLARKE BRACKETT.  
FRANK BIRD MASTERS.  
ALBERT WESLEY DRAKE.  
JOHN THOMPSON DORRANCE.  
HERMAN HORMEL.  
MYRON EVERETT PIERCE.  
ROBERT SIDNEY WASON.  
ARTHUR HENRY CLARKE.  
WINSLOW ABBOTT WILSON.  
RUSSELL SAMUEL BUCHER.  
STEPHEN DOW CRANE.  
CHESTER FRANCIS DRAKE.  
ROBERT JOHNSTON.

DANIEL PUTNAM ABERCROMBIE, JR.  
FRANKLIN HAYES DAVIS.  
HOWARD HENRY BURDICK.  
LUZERNE SIMEON COWLES.  
HARRY WING DYER.  
LOUVILLE EUGENE EMERSON.  
WILLIAM DEERING STAPLES.  
WILLIAM THOMAS HALL.  
CARL LEON MORGAN.  
CARDELLA DRAKE BROWN.  
HERBERT BOYDEN NEWTON.  
JOHN DELOSS UNDERWOOD.  
ALEXANDER GILCHRIST HAWES.

SALMON WILDER PUTNAM, JR.

### In Collegio.

SEEBERT LLOYD LAMBORN.

ERNEST FRANKLIN BADGER.

### In Urbe.

HAROLD CHASE BUCKMINSTER.  
WILLIAM WYMAN CROSBY.  
HERBERT NATHAN DAWES.

WALTER ROBERT PHEMISTER.  
ALBERT RICHARD BEDDALL.  
SILAS ANTHONY SAVAGE.



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ  
ΕΘΝ.





# 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. H.	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.
H.	Buchtel College	Akron, Ohio.
Θ.	Bethany College	Bethany, W. Va.
I.	Michigan Agricultural College	Ag'l College, Mich.
K.	Hillsdale College	Hillsdale, Mich.
M.	Ohio Wesleyan University	Delaware, Ohio.
Φ.	Hanover College	Hanover, Ind.
X.	Kenyon College	Gambien, Ohio.
Ψ.	University of Wooster	Wooster, 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.

---

### Members.

DONALD CHENERY CAMPBELL.

HERBERT W. CHAMBERLIN.

ALFRED STARR HAMILTON.

AUGUSTUS CLARK LAMB.

AUSTIN FREDERICK LINDENLAUB.

GEORGE BIGELOW PILLSBURY.

JESSE WYMAN SHUMAN.

ALBERT WILLIAM THOMPSON.

WILLIAM GUY WALL.

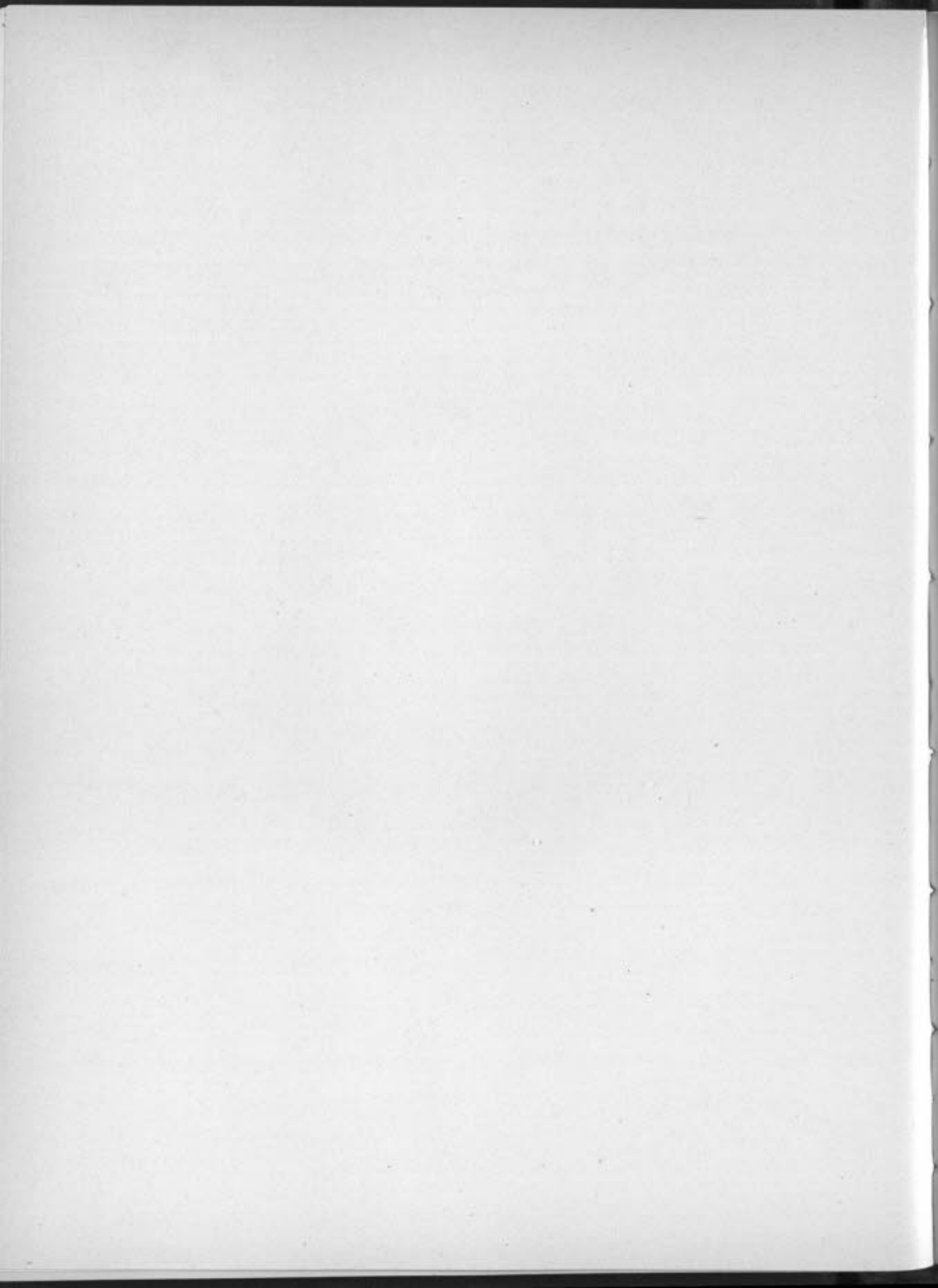
### Fratres in Collegio.

JOHN LOUIS NEWELL.

GEORGE ARNOLD ROCKWELL.



*Druck. Photo.*





#### PHI DELTA THETA.

FRANCIS POLK BLAKE	.	.	.	.	.	University of the South.
GEORGE HENRY BOECK	.	.	.	.	.	Western Reserve.
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#### KAPPA KAPPA KAPPA.

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#### PHI KAPPA PSI.

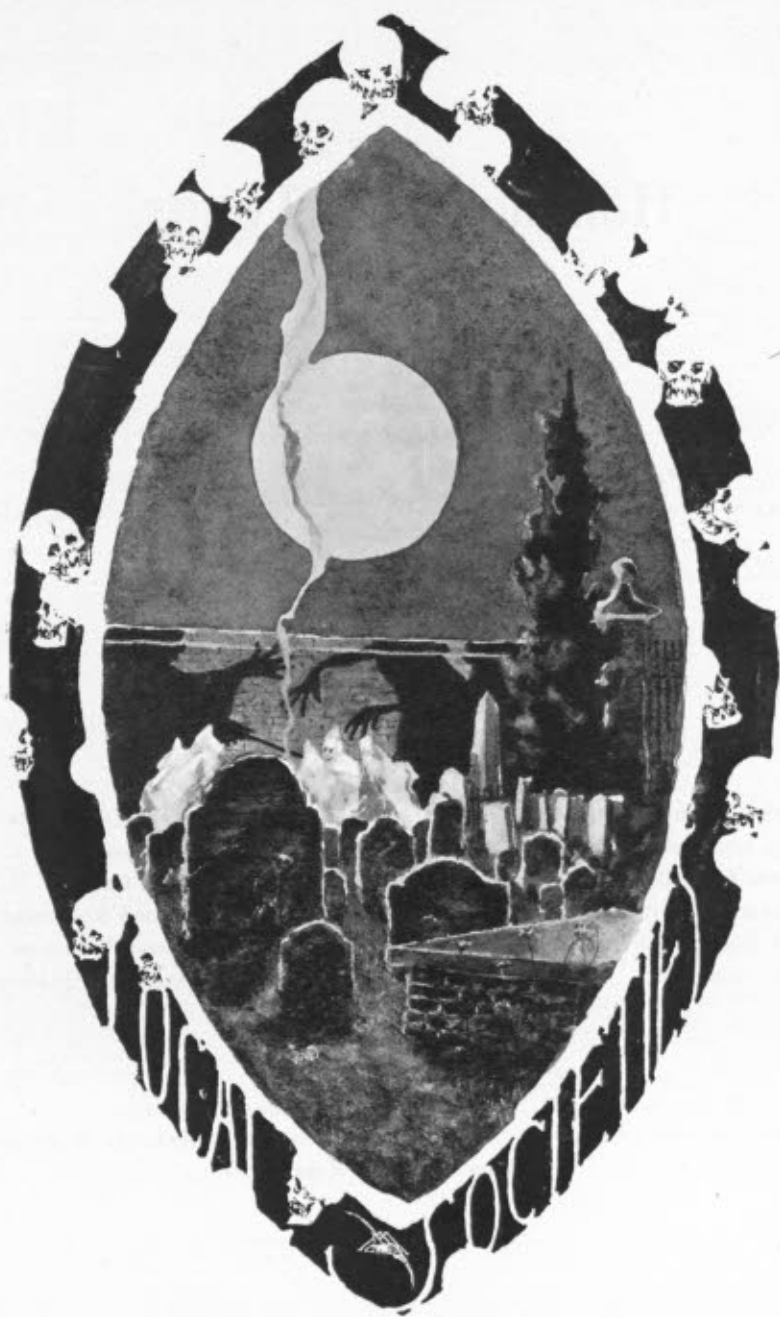
SAMUEL SCHMUCKER SADTLER	.	.	.	.	.	University of Pennsylvania.
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#### ZETA PSI.

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Delta Psi . . . . .	21 "
Chi Phi . . . . .	20 "
Delta Kappa Epsilon . . . . .	28 "
Phi Beta Epsilon . . . . .	26 "
Delta Upsilon . . . . .	20 "
Sigma Alpha Epsilon . . . . .	27 "
Delta Tau Delta . . . . .	9 "
Other Fraternities represented . . . . .	16 "
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Total . . . . .	201 "
Per cent of Students who are members of a Fraternity . . . . .	16.9





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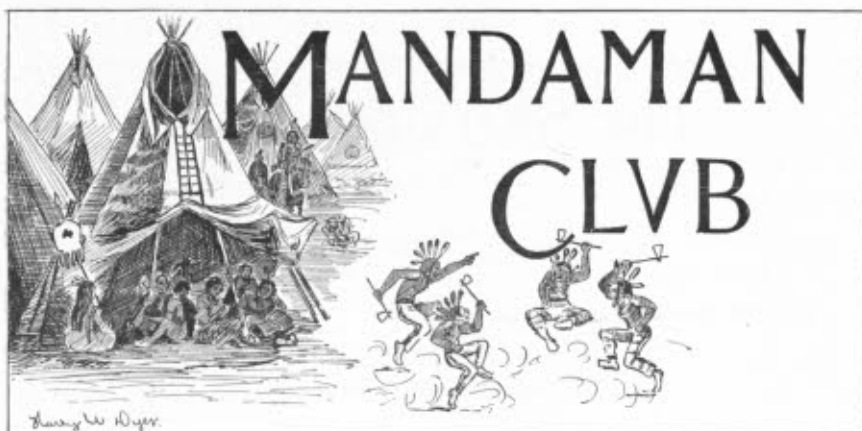
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WILLIAM CHAPMAN POTTER.

WILLIAM OTIS SAWTELLE.

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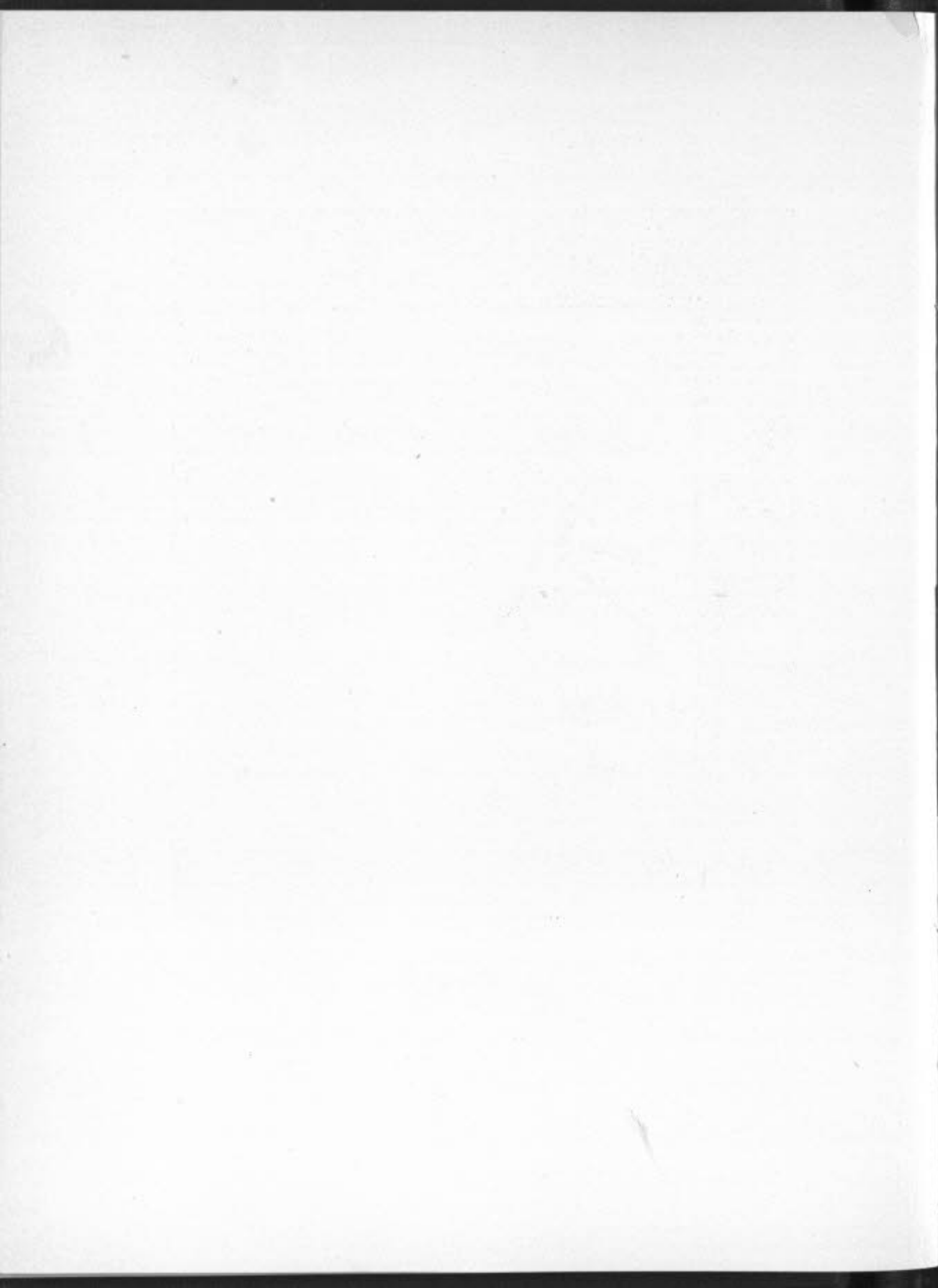
LUCIUS SPAULDING TYLER.

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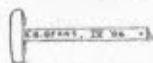




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\*



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The Cost per Plate is about Twenty-five Cents which includes Wines.



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"Any Member who brings to a Dinner his wife (or anybody else's wife) must pay for all she (or he) eats."

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# K<sub>2</sub> S.

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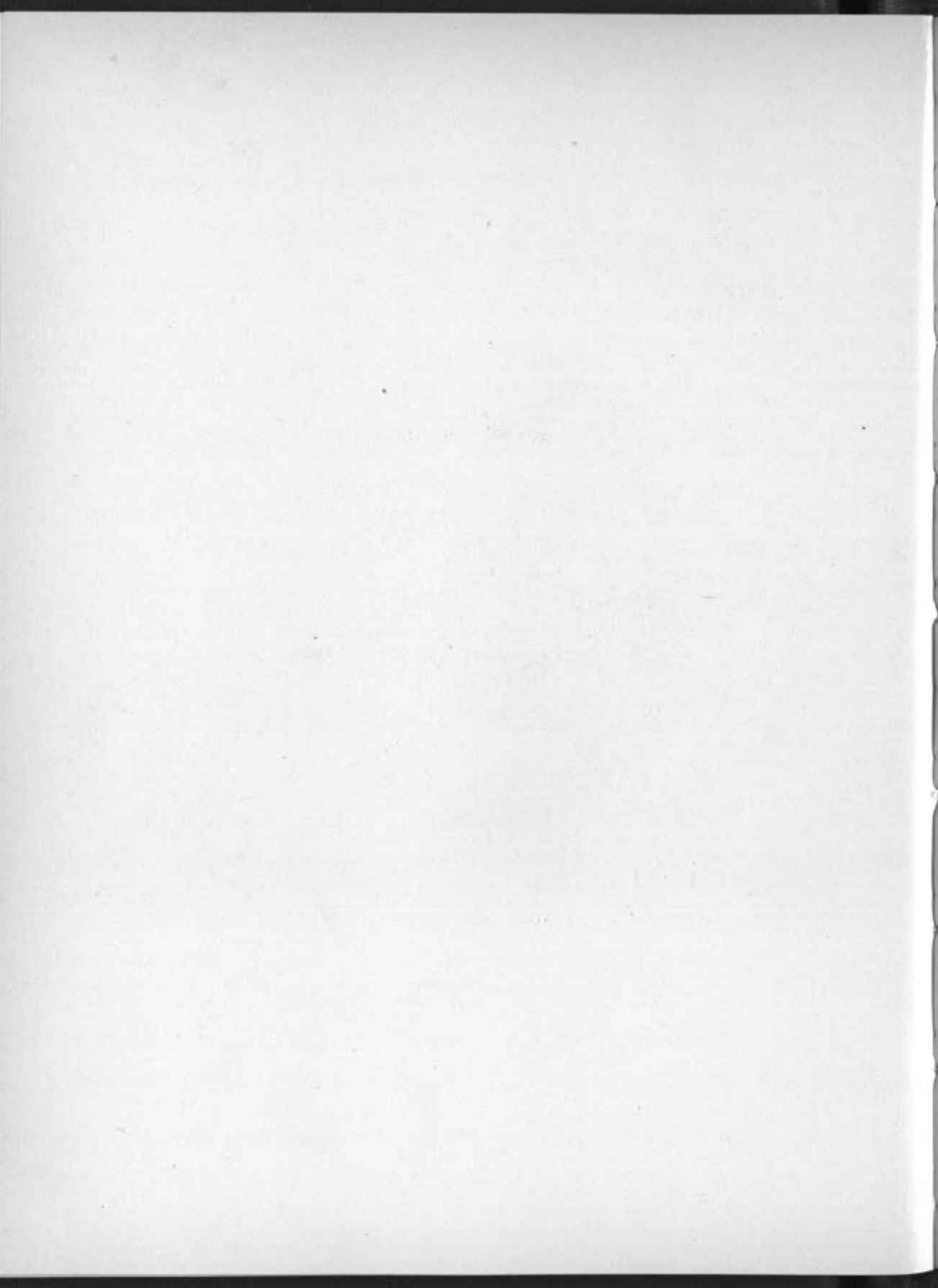
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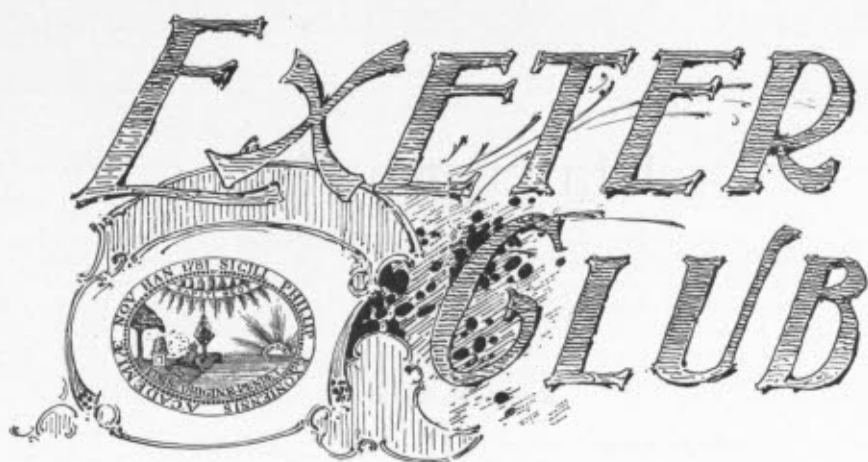
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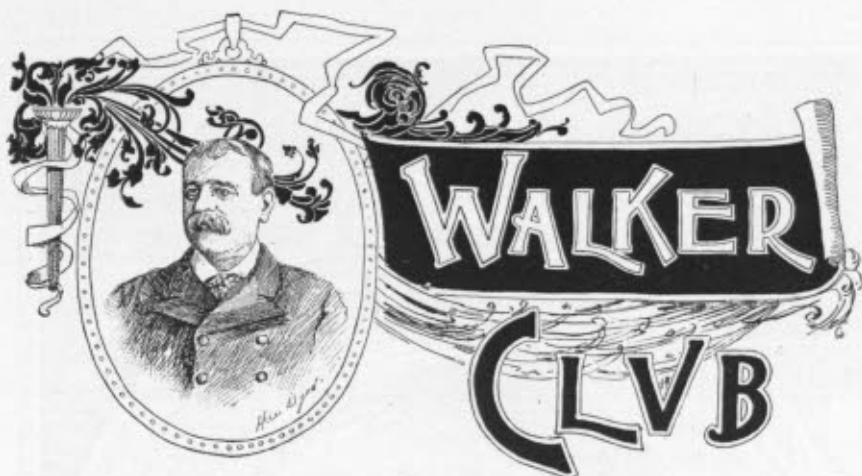
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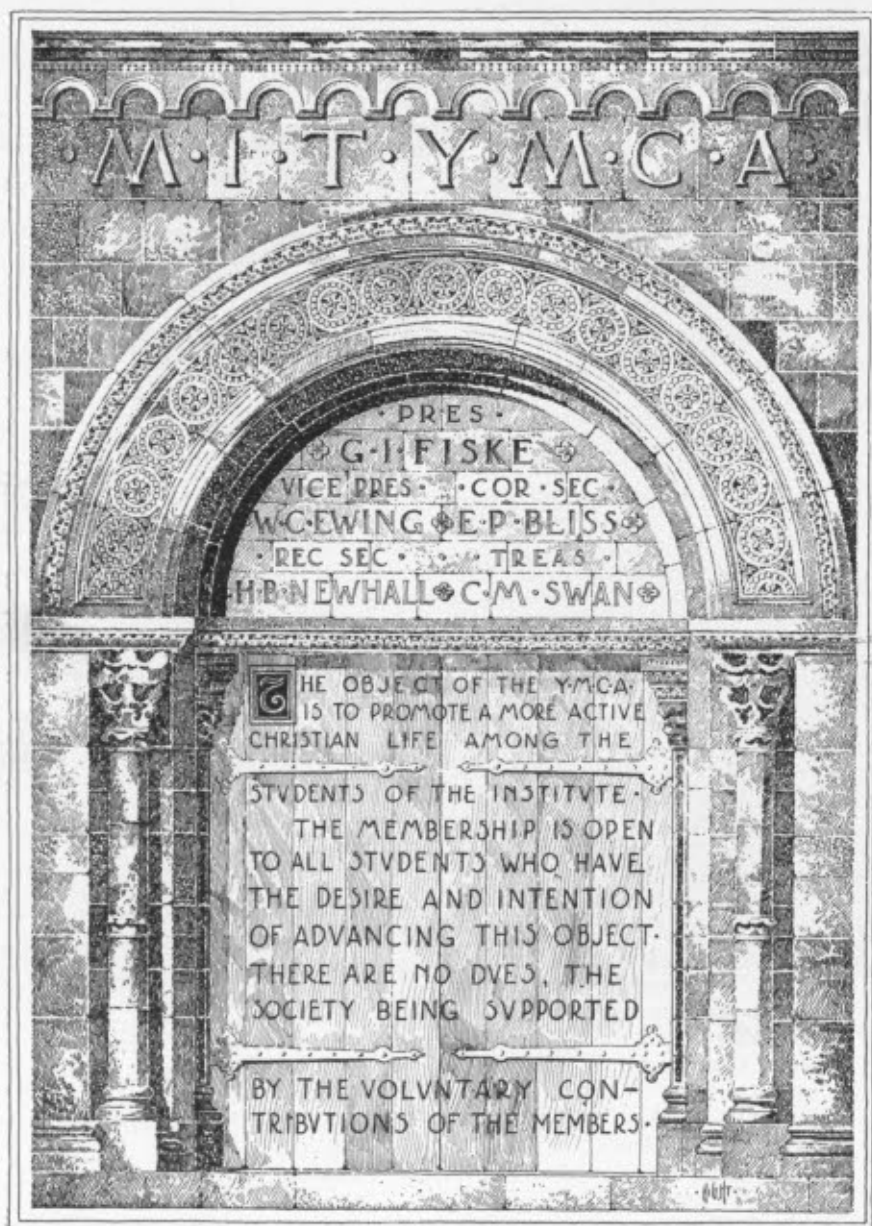
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Organized November 27, 1894.

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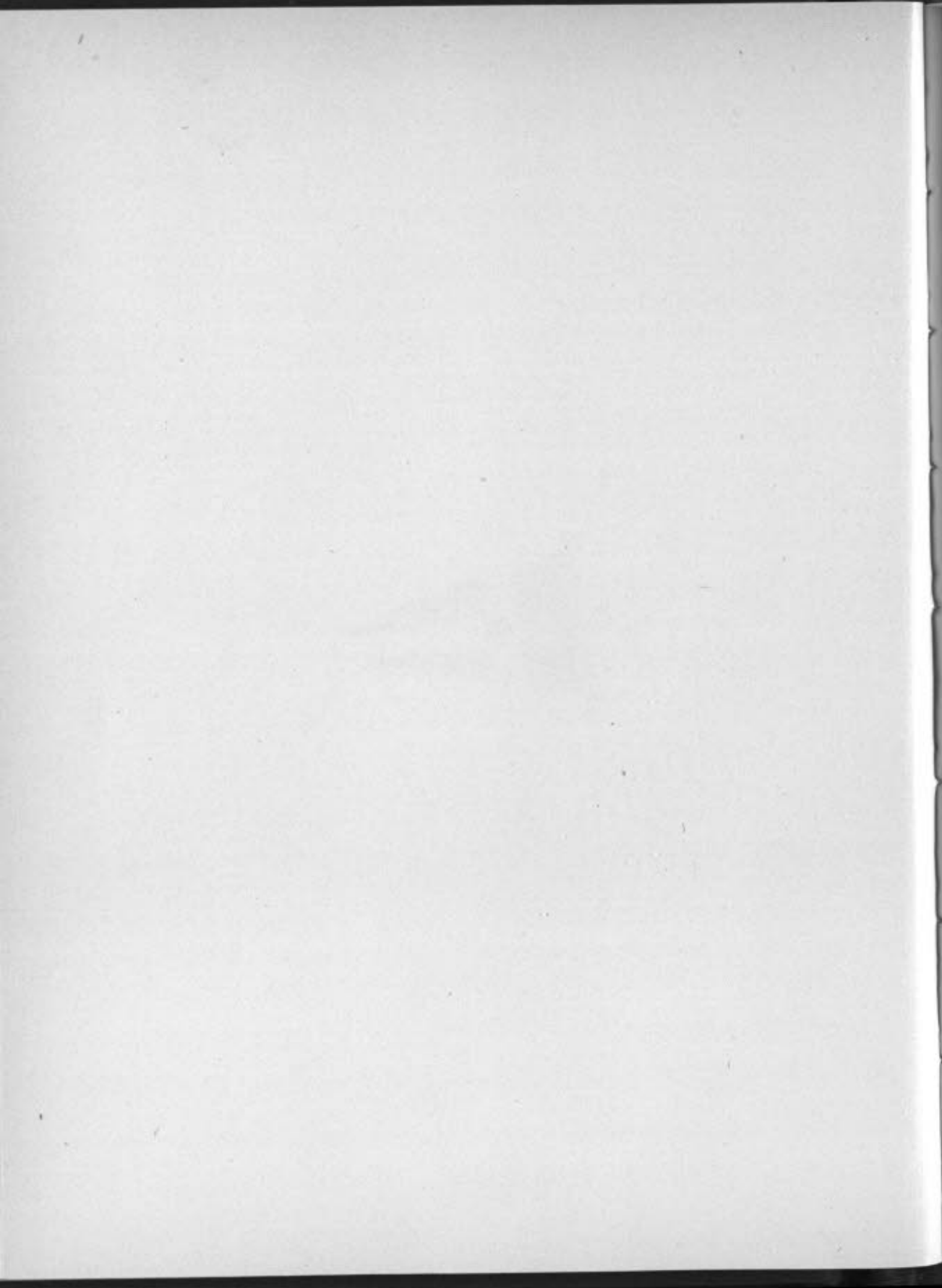
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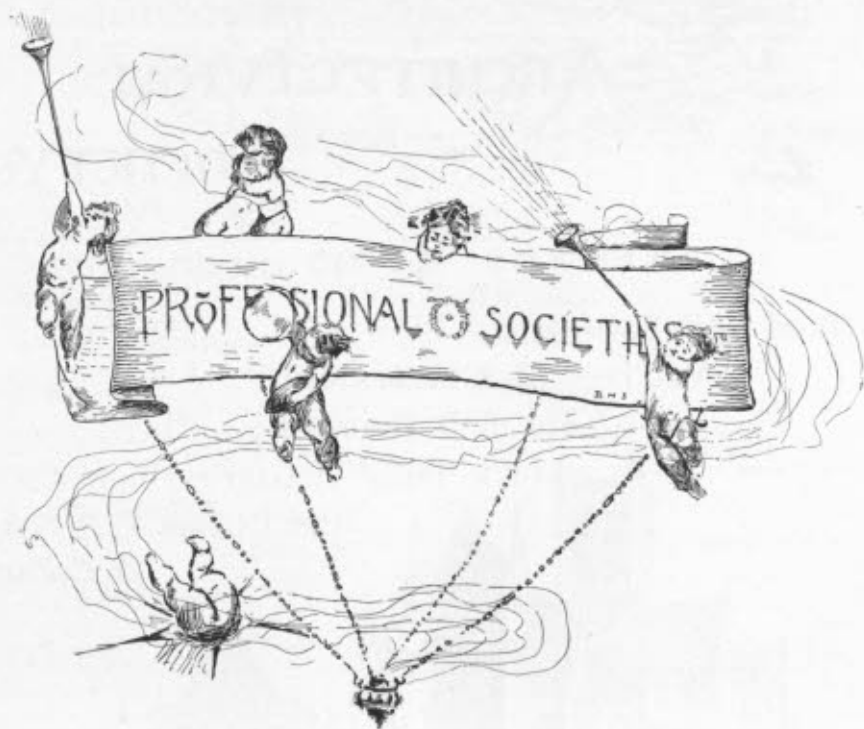
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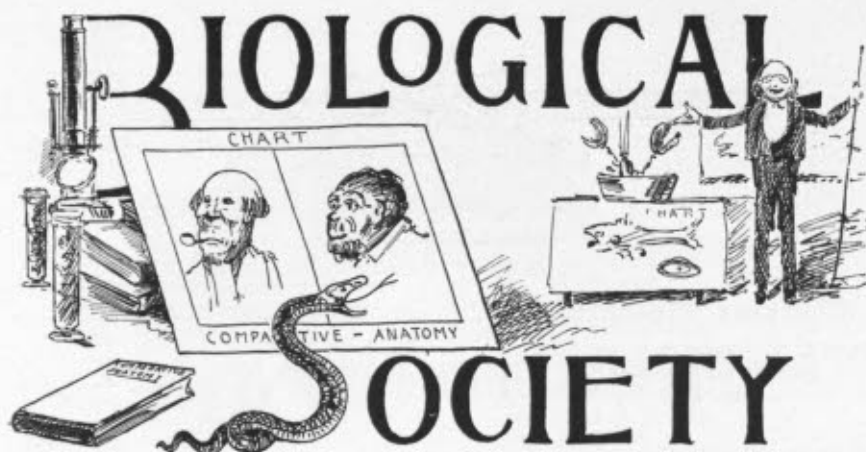
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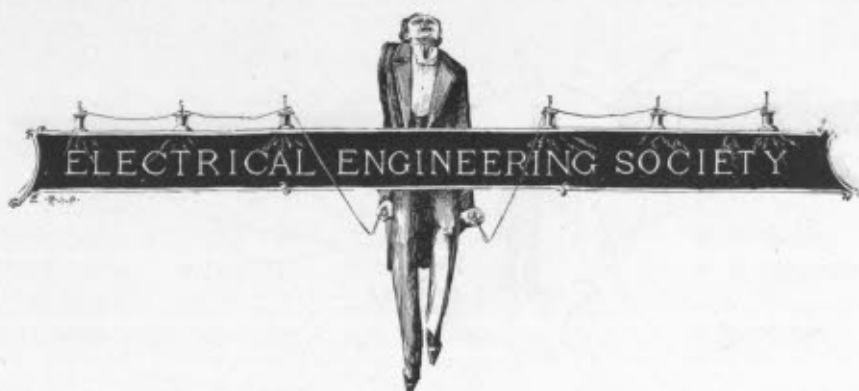
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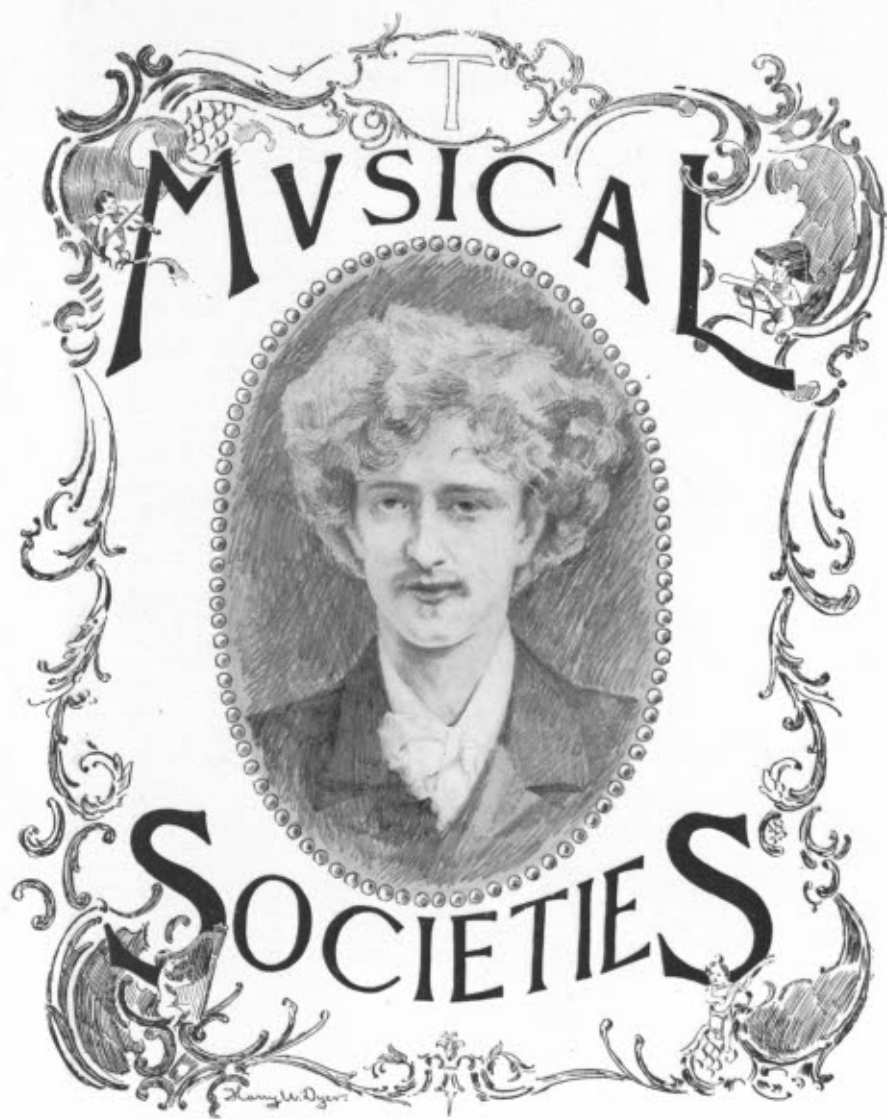
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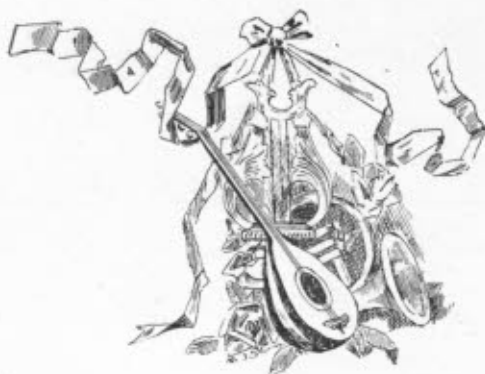
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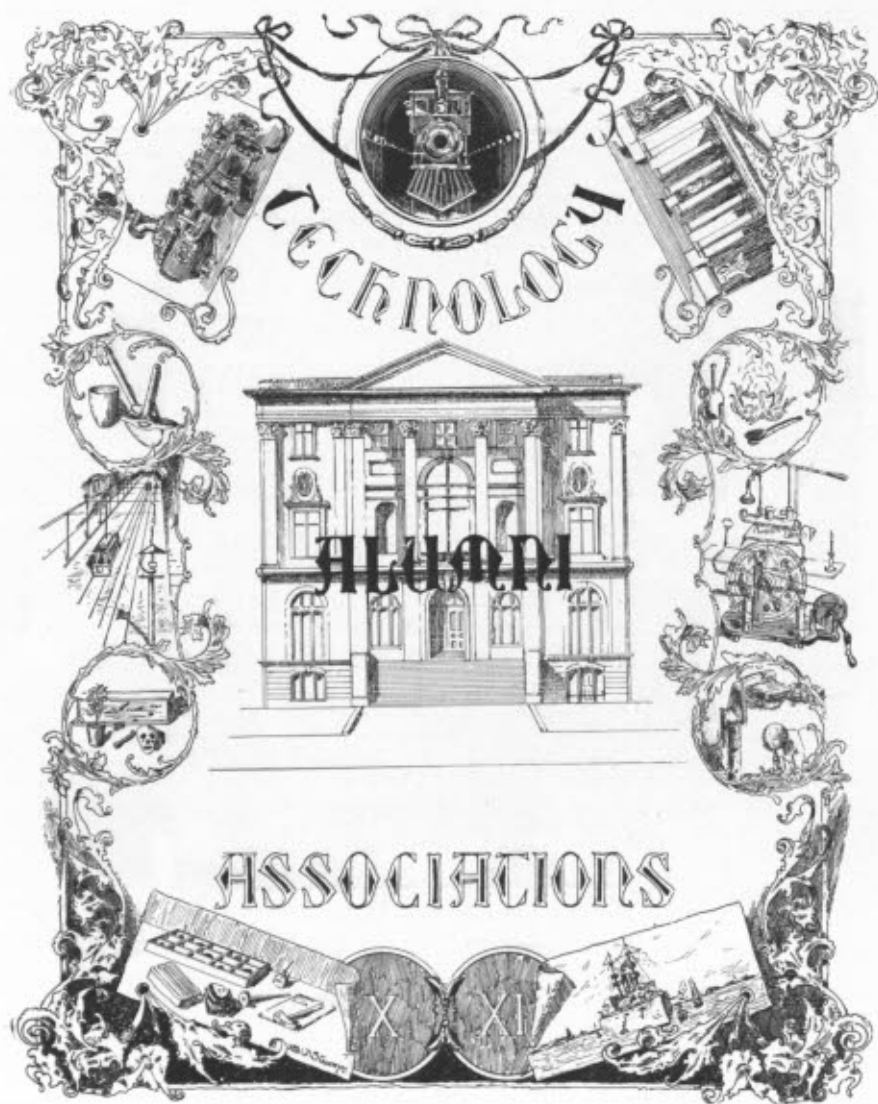


EMMA: "I understand that Jack Copley is all cut up on account of the way Ethel treated him."

GERTRUDE: "What did she do,—did she jilt him?"

EMMA: "No! she ridiculed the beard he was growing, and he tried to shave it off."







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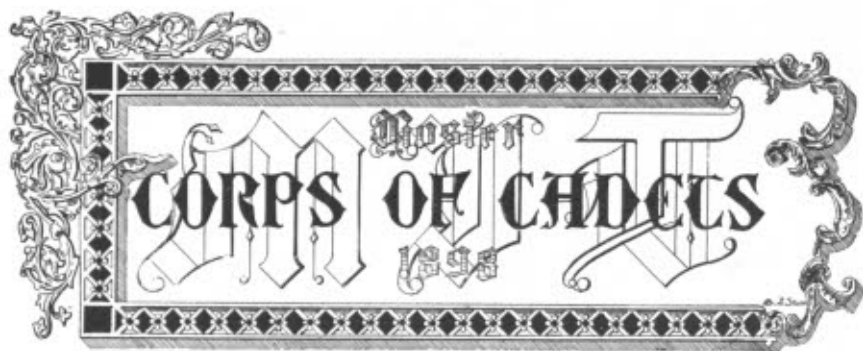
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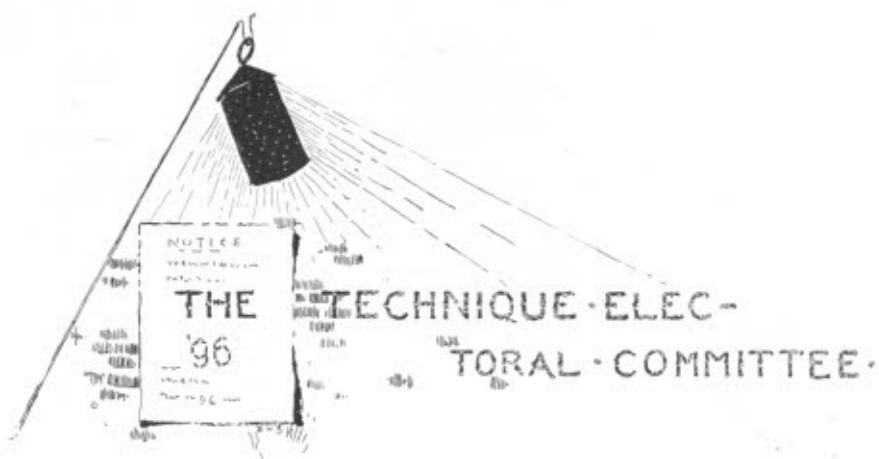
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#### Reading of Abstracts of Theses.

- The Determination of the Electrolytic Dissociation of some Inorganic Acids by Solubility Experiments* . CHARLES GREELEY ABBOT.
- The Action of Natural Waters on Lead and Copper* . HARRY REYBURN BATES.
- A Crematory* . . . . . HARRY WENTWORTH GARDNER.
- A Study of a Tri-Phase Generator and Motor* . . WILLIAM STEWART HULSE.
- The Several Kinds of Taxes* . . . . . WILLIAM HERBERT KING.
- An Experimental Investigation of the Action of a Steam Engine Governor* . . . . . THOMAS GLEASON RICHARDS.
- A Study of Vinegar Ferments* . . . . . WILLIAM HENRY SAYWARD, JR.
- The Physical Properties of Some Aluminum Zinc Alloys* . . . . . GEORGE WILMARTH SHERMAN.
- Discussion of the Present Water Supply of Haverhill, Mass., and of Means for its Improvement* . . JOHN CONYNGHAM STEVENS.
- Study and Design of a Plate Girder Cantilever Bridge of Three Spans* . . . . . GEORGE AYMAR TABER.
- The Magnetic Concentration of Iron Ore* . . . JOSEPH EARLSTON THROPP, JR.

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<i>Overture</i>	ORCHESTRA.
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<i>History</i>	THEOPHILUS CLIVE DAVIES.
<i>Oration</i>	CHARLES ARTHUR MEADE.
<i>Music</i>	ORCHESTRA.
<i>Poem</i>	ARTHUR ASAHIEL SHURTLEFF.
<i>Statistics</i>	COLBERT ANDERSON MACCLURE.
<i>Music</i>	ORCHESTRA.
<i>Prophecy</i>	HAROLD MAYSON CHASE.
<i>Music</i>	ORCHESTRA.

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EVENING RECEPTION.



# TECHNOLOGY



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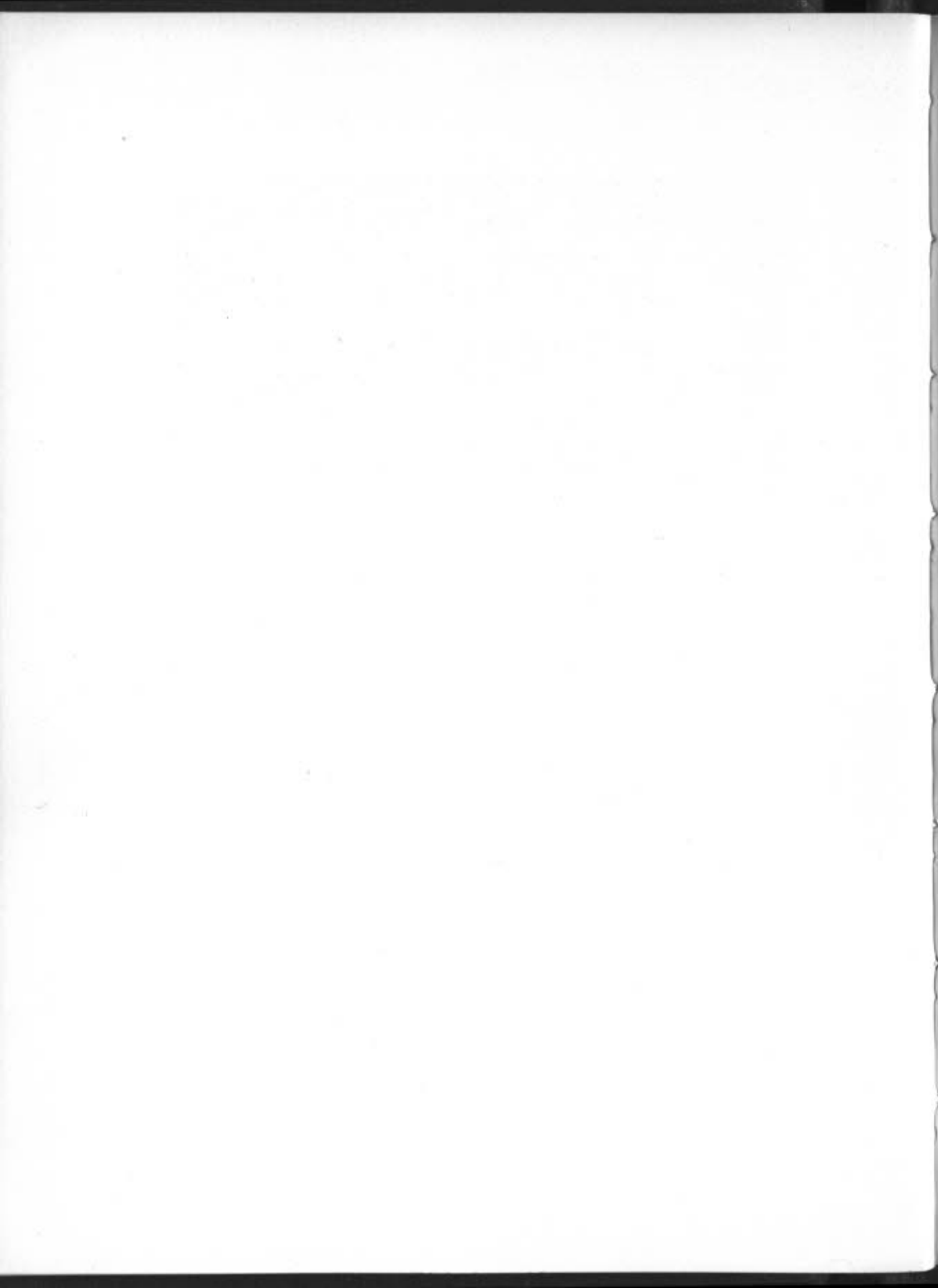
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*The Technology Quarterly* was founded in 1887, by members of the Senior and Junior classes, and was carried on for two years by them and their successors. The value of the journal, however, was thought to warrant a more permanent management, and in 1890 its publication was undertaken by Mr. James P. Munroe, at the time Secretary of the Institute. In 1892, Mr. Munroe having left the Institute, the Society of Arts decided to discontinue the publication of the Abstracts of Proceedings, and to publish the *Quarterly* under its present title.

In its present form the *Quarterly* contains the record of the scientific and technical investigations carried on at the Institute, the principal papers read before the Society of Arts, and the proceedings of the Society.

# A Chapter of Accidents.

## The Miranda's Trip to Greenland.

"Oh for the day that we left New York,  
In spite of a lot of adverse talk,  
To do the Arctic Regions brown,  
And be the wonder of the town!"



WE were passing the mouth of the Straits of Belle Isle. The fog lay down about us so thick you could cut it with a knife, and we were ploughing our way through it at almost full speed.

"Look out; there's an iceberg ahead!"

There was a quick reversal of the engines, a crash, and the old Miranda slowly pulled her nose out of the face of the berg, her foredecks covered with glittering blocks of ice, and a ragged hole torn in her bows near the hawse pipe.

Some one said she was leaking, and an effort was made to swing out the lifeboats from the davits,—boats which had never been touched since they were first put there.

"There's no need of that, you fools," came from the master on the bridge. "She struck fifteen feet above water."

Back to civilization we went, and in a week we were ready to try it again. Incidentally, while we were waiting and the fellows were poking their noses into everyone's business but their own, half a dozen of the party happened to discover the insane asylum.

"Is this visiting day?"

"No, sir," said the warder.

"But we leave to-morrow; we're from the Miranda, and"—the doors were swung wide open.

"Walk right in," he said, with a bow so sweeping that his head almost hit the floor. He felt instinctively our right of being there,—we who were going into the North with an *iron* ship.





This time we ran up the fifty-second meridian, making land in latitude 65 degrees 30 minutes at the little town of Sukkertoppen, Greenland.

We "truckumed" with the huskies for everything, from an ivory-tipped walrus spear to a soapstone lamp; made a big gap in the governor's wine and cigars; and were soon on our way out of that treacherous harbor, with the portals of the mysterious North spreading out before us. Everyone was in fine spirits.

I was down in the cabin talking with the Doctor. "Yes," said he, "in a trip of that kind sixteen pounds of pemmican ought to last you a good ten" — and before we could guess the cause, we found ourselves

jammed up against the farther side of the cabin, with the walls reeling about us and everything tumbling down off the shelves. Oh! the mad rush up that stairway; the old ship keeled over till I fancy the waves ran in the scuppers. We swarmed out on deck like a lot of hornets from their nests, and made a dash toward the lifeboats. Thud, and once more the sea brought the *Miranda* down on that jagged rib of sunken rock, followed by a harsh, grating,



tearing sound, which was more felt than heard. Then she keeled over on the other side and slid off into deep water.

The intense excitement which followed (while the carpenter was sounding the hold) I hope may never be my lot to experience again. Some calmly leaned over the rail and watched the water slowly creeping up the sides of the ship; some interfered with the crew who were getting the boats ready; while others were carefully strapping life-preservers around their waists.

Then came reaction and relief. The ballast tank running along the bottom of the vessel was full of water, on which the pumps could have no effect. Another leak the pumps took care of, but badly. This known, we slowly worked our way back into harbor.

As we neared the coast I looked up at the rugged mountains scowling down upon us in their savage grandeur.

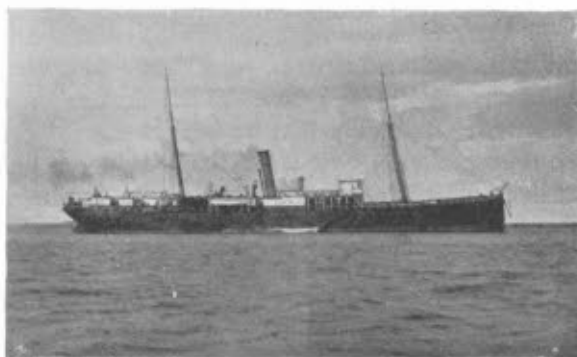
"This is no place for man," they seemed to say. "We let you off this time, but never enter our domains again." Too true. Greenland, to-day, has only reached the state that characterized the ice age of our own country many thousands of years ago.

The rest is pretty well known to the public now: how five of our little band took an open boat and went up the coast in search of help; how a small fishing schooner abandoned her cruise and nobly came to our assistance; and how we slowly labored down the Labrador coast, running short of water and provisions, and finally reached the railroads and the States.

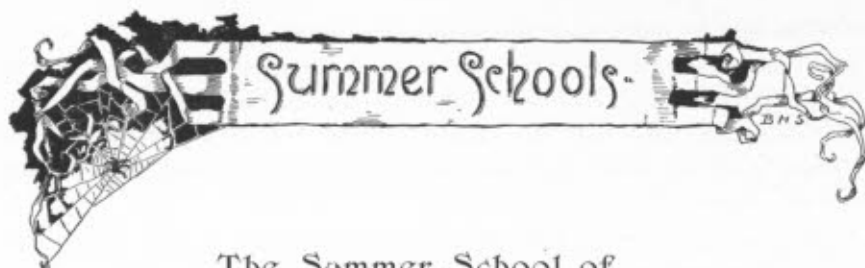
Only one more event was needed to complete the chapter of accidents of our ill-starred expedition. Coming by steamer to New York and just entering the Sound, surrounded by our old enemy, the fog, we ran down a coal-laden schooner, cut her completely in two, and sent her entire crew, save one, to the bottom.

What wonder that we should say, after reaching our destination, we were followed by a fate so persistent as to inspire superstition.

RUSSELL W. PORTER.



The Miranda.



## The Summer School of Civil Engineering.



LET me tell you of our trip to Arcadia,—for that was where our school was held,—a quite up-to-date Arcadia at that, near Lake Champlain, in a swell hotel with a French *chef* and plenty of *à la's* on the *ménu*. That *ménu* was a source of delight to me, not merely physically but intellectually. I seized with eagerness the chance it gave me for displaying my French, and ordered with my best Technology accent all the dishes I did not understand. I watched with pride the effect on the others, and frowned down the French waitress when she picked up the *ménu* to find out what I had ordered. It gave me a chance, also, to gamble with myself as to whether the outcome would be one of those delicious French dishes called *soufflé*, or only a Hamburg steak under a new name—for Hamburg steaks in Keeseville have as many titles as any French baronet on the market.

It rained so hard the first week that hydraulics seemed the only appropriate thing, so “hydraulicing” we went, the professor tripping lightly in front with the umbrella and the lunch basket, while we followed with the instruments and the rain. The day was spent in various aquatic sports, such as chasing floats down stream and ourselves back again. The hour for lunch we whiled away by eating the ham in the sandwiches and counting the microbes in the bread. Later in the month, when the sun came out and the air grew warm, we went out with the plane table. The proper thing to do then was to lie on your back and run



“Hydraulicing.”

the slide rule, while some gambolled over the landscape with long barber poles, and others tried their best to see those poles through a telescope when it was not pointed that way. You must not, however, think we were always so lazy. On the contrary, so great was the energy of some that even thunderstorms could not check them, and much work was accomplished at times when others would have sought shelter to dry their clothes.

In spite of the great natural beauty of our surroundings, I fear there are many who have the fair village maidens to thank for their pleasantest recollections. We were invited to a ball, and accepted unanimously. We expected to meet a bevy of rosy-cheeked country girls, and were ready for a *can-can* or a "hoe-down." How great was our surprise! The rows of enormous red, blue, and green sleeves, and the masses of ringlets and powder, showed our mistake. Completely dazed, we were hauled by twos down the line by the fat society man of the town, and introduced to the fair ones. The evening passed for me like a dream. I tried to dance the "two-step," but was informed that that "had been danced to hysteria in Keeseville." I retired to a corner and discussed with some beauty the loss the world sustained by her being kept in Keeseville, while I watched one of our more successful society men glide around his partner with a grace and smile equally angelic. The parting was sad. In a line on the hotel piazza, with beers of farewell, we wished them—as we wish you—good-luck!



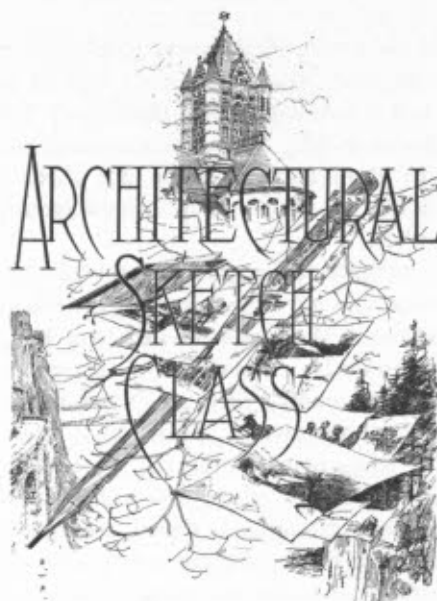
"Our Society Men."



"When others would have sought shelter."

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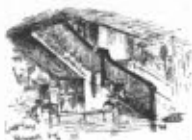
TO look back upon the days of our forefathers, and study the art of the colonies, was the mission of last summer's architectural school, and very instructive it became, although not altogether flattering to our nineteenth century conceit. For in those unenlightened days before the Revolution, when there was no Fourth of July or Watertown Arsenal testing-machine, houses were being built whose simple elegance and good taste we have never since been able to equal. It seemed highly proper, therefore, that, like ancient peoples, we should devote at least one summer to the worship of our ancestors.

The sacred band arrived in Salem upon the afternoon of the thirty-first of May, and for the rest of that day was hospitably entertained with a drive through the city and a reception at the Essex Institute. Through the efforts of Mr. Ross Turner, many of the most interesting houses in Salem were opened to us, and during the following week we made measured drawings of much colonial detail, which under other circumstances we might have had no opportunity of seeing. The greatest courtesy was everywhere shown us, and our tasks were often lightened by the appearance of a smiling maid bearing sandwiches and a bottled beverage legally unrecognized in Salem. Our work was prosecuted with much enthusiasm, and even the hotel office did not escape our measuring madness. Behind a long writing table some one discovered the top of a mantel; with all the eagerness of Schliemann at Troy, we fell upon the table, thrust it into a dark corner, and while one party of us operated upon the mantel, another kept at bay the irate and silk-hatted drummers who were forced to write by the light of eight-day matches or of the butts of their cigars.



Finally, upon the eighth of June, we pulled out from Salem, enthusiastic over the kindness of the people, as well as the refinement of the architecture. The same day we arrived in Newburyport. Here all was quaint, and savored of colonial days. The hotel was a typical country inn, where welsh rarebit was a thing unheard of, and where even the waitresses seemed to date from the early days of the century. Here we spent some time upon rickety steps and perpendicular ladders measuring the Unitarian Church, and then we departed northward for Portsmouth.

The Portsmouth houses were a very interesting contrast to those of Salem. They seem to have been built by people more inclined to luxury than were the Massachusetts Puritans. We did not find the same cold purity and refinement of detail, but rather a tendency toward greater richness in carving and elegance in general design. The builders evidently had pleasant remembrances of the old homes in England, and loved to reproduce their wainscotted walls and their square halls lined with portraits. And these portraits added a certain romantic interest to our work; for we would be told that "the south wing was built by the gentleman in the tie wig over the stairs," or that "the English garden was added by the young man in the red coat over the fireplace, who ran away with the lady in powder in the dining room."



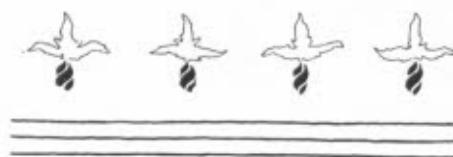
Our pleasure, however, was not entirely architectural. When overcome by patient toil or the summer heat, we would gather at the "Rockingham." Here, in happy companionship, we used to give full rein to our enthusiasm, and some achieved that fullness of sympathy for which the architectural profession is so justly renowned.

Wednesday, the thirteenth of June, summoned us away from colony times, when we lived under the king, and found us once more in modern Boston. We then parted for the summer, all firmly convinced that we had most profitably and pleasantly spent the time thus given, under Professor Homer's direction, to the study of many of the finest existing specimens of colonial architecture.





At Parker's . . . December the fourteenth  
. MDCCCXCIV . . .



*Being . . . .*  
the Senior Dinner  
of the  
CLASS of NINETY FIVE  
*Massachusetts*  
*Institute of Technology*

# Ninety-Five Class Dinner.

"A feast of reason and a flow of soul."

*Toastmaster.*

GERARD SWOPE.

ADDRESS . . . . . ARTHUR LAKE CANFIELD.

"Such laboured nothings in so strange a style,  
Amaze the unlearned, and make the learned smile."

TECHNOLOGY . . . . . RICHARD G. B. SHERIDAN.

"Be to her virtues very kind,  
Be to her faults a little blind."

PECULIAR CHARACTERISTICS . . . . . MILTON LATHROP FISH.

"Damn with faint praise."

NINETY-FIVE QUARTETTE.

Walter Simons Chase.

Donald Cleveland Scofield.

Frank Curtiss Schmitz.

Robert Sidney Wason.

VIGNETTES . . . . . FRANCIS WHEELWRIGHT BELKNAP.

"What fools these mortals be."

THE 'VARSITY . . . . . JAMES WINTHROP THOMAS.

What's the score? What's the score?  
Technology 3 — Brown 4.

GRINDS . . . . . THOMAS HOLLIS WIGGIN.

"But if it be a sin to covet honors,  
I am the most offending soul alive."

BANJO SOLO. . . . . GEORGE FREDERIC SHEPARD, JR.

"Sweet minstrel of the joyous present."

THE PHILOSOPHER'S STONE . . . . . SAMUEL SCHMUCKER SADTLER.

"Unlike my subject now shall be my song;  
It shall be witty, and it shan't be long."

THE LAST LAP . . . . . EDWARD HALEY HUXLEY.

"The true beginning of our end."

AFTER COMMENCEMENT, — WHAT? . . . . . ALBERT WESLEY DRAKE.

"Coming events cast their shadows before."

SOLO . . . . . FRANK CURTISS SCHMITZ.

"His voice was like the warbling of a bird,  
So soft, so sweet, so delicately clear."





# Junior Dinner.

The Thorndike, February 16, 1895.

## Toastmaster.

BENJAMIN HURD, JR.

"A season now for calm, familiar talk."

## QUARTETTE.

E. H. Barker, C. H. Young, W. M. Stearns, M. O. Leighton.

CLASS OF NINETY-SIX . . . . . EDWARD ARTHUR BALDWIN.

"But sure the eye of time beholds no name  
So blest as thine in all the rolls of fame."

PIANO SOLO . . . . . L. E. EMERSON.

JUNIORS . . . . . ROBERT SAMUEL HARDY.

"Whate'er they did was done with so much ease,  
In them alone 'twas natural to please."

ON BOYLSTON STREET . . . . . EDWARD STACEY MANSFIELD.

"Must I then leave thee, Paradise?"

## BANJO QUARTETTE.

A. W. Thompson, L. S. Tyler, J. L. Putnam, F. W. Smyser.

TECHNIQUE . . . . . HARRY GEORGE FISK.

"Whole volumes in folio,  
The book of knowledge fair."

DUET—MANDOLIN AND ZITHER . . . . . W. H. CLIFFORD, G. C. HALL.

THE LADIES . . . . . BUTLER AMES.

"And when a lady's in the case,  
You know all other things give place."

ON YOUR MARK! SET!! GO!!! . . . . . JOHN ARNOLD ROCKWELL, JR.

"To hold with the hare and run with the hounds."

BANJO SOLO . . . . . L. S. TYLER.

PROHIBITION . . . . . THEODORE INSLEE JONES.

"Fishes that tippie in the deep  
Know no such liberty."

## QUARTETTE.

NORTHERN LIGHTS . . . . . RUSSELL WILLIAM PORTER.

"'Tis where Polaris keeps her vigil calm."

DUET—MANDOLIN AND ZITHER . . . . . W. H. CLIFFORD, G. C. HALL.

WHEN I AM A SENIOR . . . . . STEPHEN DOW CRANE.

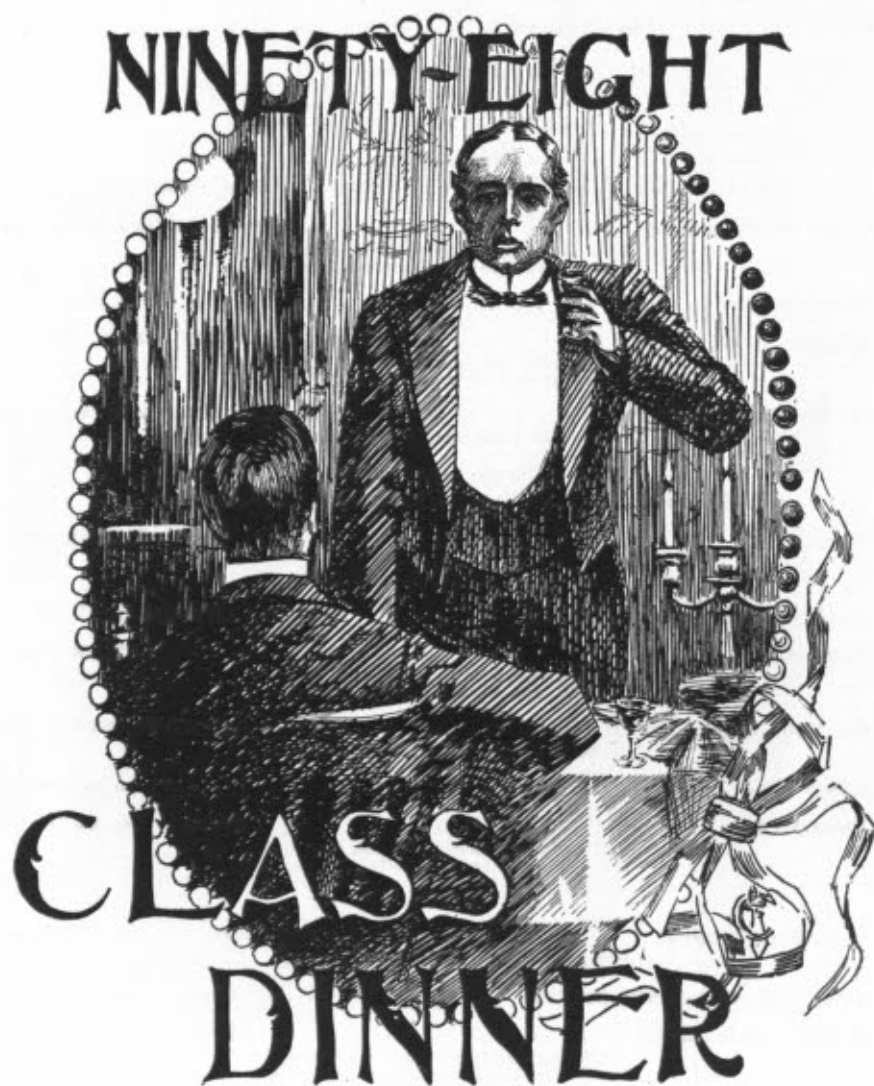
"Whence is thy learning? Hath thy toil  
O'er books consumed the midnight oil?"

## BANJO QUARTETTE.

STORIES . . . . . FRANK EDWARD GUPTILL.

"I will a round, unvarnished tale deliver."

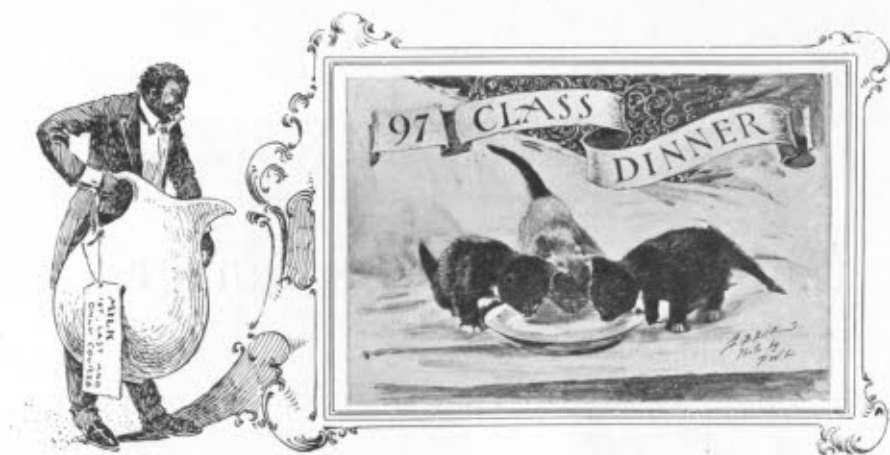
## QUARTETTE.



# Ninety-Eight Class Dinner.

Young's Hotel, February 16, 1895.

TOASTMASTER . . . . .	WARD WELLINGTON WARD.
ADDRESS . . . . .	WILLIAM MONTAGUE HALL.
TECHNOLOGY . . . . .	GEORGE REED WADSWORTH.
CUPID'S DARTS . . . . .	JAMES GERHARD LEIPER, JR.
MANDOLIN AND GUITAR SELECTIONS . . . . .	J. S. BARBER AND J. S. SMALL.
'98-'97 . . . . .	CHARLES LEMOYNE.
VERDANCY . . . . .	JOHN DE LOSS UNDERWOOD.
FOOTBALL . . . . .	GEORGE FREDERICK ULMER.
GRINDS . . . . .	LESTER DURAND GARDNER.
TRACK ATHLETICS . . . . .	ALLSTON SARGENT.
VIGNETTES . . . . .	CHARLES EDWARD AMORY WINSLOW.
FUTURE OF '98 . . . . .	RAYMOND SMITH WILLIS.



The Thorndike, March 16, 1895.

*Toastmaster.*

FRANKLIN EVERETT BRAGG.

THE CLASS OF NINETY-SEVEN	HENRY WALTER ALLEN.
MUSIC	NINETY-SEVEN QUARTETTE.
TECHNIQUE	WILFRED BANCROFT.
MUSIC	MESSRS. PUTNAM AND SHUMAN.
ON ROGERS STEPS	ALLEN WINCHESTER JACKSON.
MUSIC	R. S. HOWLAND.
TECHNOLOGY	SHELDON LEAVITT HOWARD.
ATHLETICS	EDWARD ALLEYNE SUMNER, JR.
MUSIC	NINETY-SEVEN QUARTETTE.
THE FACULTY	JAMES TIMOTHY BAKER.

"Good night, good night: parting is such sweet sorrow  
That I shall say good night 'till it be morrow."



## Editorial.



ATHLETICS as an established line of student effort were introduced at Technology when, in 1879, a few enthusiastic individuals organized an Athletic Association, which, in the succeeding years, has well proved its worth, and has done much of which we may feel justly proud. Although many a difficulty has presented itself in the past, our Association has proved itself equal to all emergencies, and as a result of the diligent, faithful labors of its supporters, it has become one of the most prominent among the athletic organizations of New England. From the Faculty little encouragement has been received, and a disparaging atmosphere has ever been present. We have, indeed, often lost excellent material on account of this non-athletic spirit among the heads of the various Departments. Yet we have faced the fire, and have been to a very considerable degree successful in Tug of War, Football, and Track Athletics. The brevity of our baseball season makes it almost impossible to appear on the diamond to advantage.

Our older Alumni, conversant with the former *status* of athletics at Technology, have been surprised again and again at our recent football records. Indeed, it is a marvel that we have been able to develop teams, have met opposing elevens under far superior training and coaching than ourselves and have held them down to small scores, or, in many cases, have brought defeat upon them. Notwithstanding the fact that Technology has a large student enrollment, the proportion of men interested in athletics, it is safe to say, is smaller than at any other representative New England college. It is the greater honor, then, to place men upon the football field who are able to cope with teams of greater weight and in better training.

One of the most interesting features of athletic meetings during the past three years has been team racing; relay races, in which four men constitute a team and cover the entire distance of one mile. The entrance of Technology into this event has been attended with peculiar success, and but one defeat has, in the last two years, been suffered.

In track athletics we feel that our greatest progress has been made. The result of our efforts stands as a beacon light to announce to the passer-by that Technology is noted not alone along educational lines, but to no small extent upon the battlefield of athletics. Our records are by no means a discredit, and their comparison with those of the N. E. I. A. A. will give a definite conception of our standard. This last year steps were taken to procure a trainer whose supervision would enable us to send a strong representation to Worcester. In obtaining the co-operation of Mr. Graham, of the B. A. A., we were able to make the records which succeeding pages reveal.

The whole year has truly been one most successful; the outlook for the future is wholly a pleasant one.

New England  
Intercollegiate Athletic Association.

1895-1896.

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Officers.

*President.*

B. HURD, JR., M. I. T.

*First Vice President.*

D. L. SHARP, Brown.

*Second Vice President.*

S. CHASE, Dartmouth.

*Secretary.*

L. L. LEONARD, Trinity.

*Treasurer.*

J. F. SEARLES, Wesleyan.

Executive Committee.

B. HURD, JR., M. I. T., *Chairman.*

H. L. BARKER, Amherst.

W. W. ROBINSON, Bowdoin.

A. D. CALL, Brown.

S. CHASE, Dartmouth.

H. W. ALLEN, M. I. T.

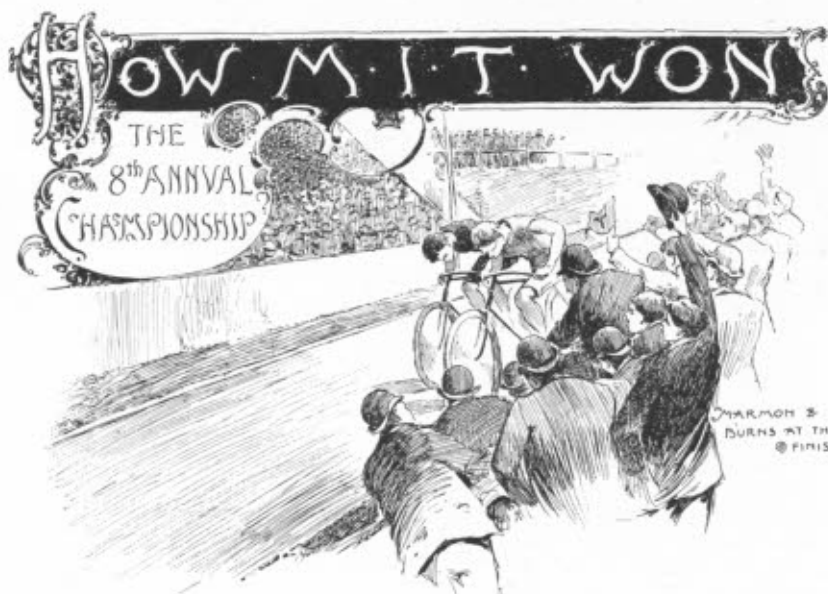
L. L. LEONARD, Trinity.

J. F. SEARLES, Wesleyan.

C. A. HARRINGTON, W. P. I.

W. R. PUTNEY, Williams.





AT the annual meeting of the N. E. I. A. A. at Worcester, on the twenty third of last May, Technology made her first appearance, and, much to the general consternation, became the exultant victor of the occasion.

The success of our team was due in large measure to the untiring efforts of Captain Lord and to the zealous, careful training which our athletes received through Mr. Graham. From raw material, with but few exceptions, he developed a championship team, which, it can safely be said, would have been for the majority of trainers an impossibility. Mr. Graham has, indeed, few equals and no superiors. With uncertain confidence, it was far beyond all expectation to receive first honors, nor would discontent have reigned had second or even third place been won. Was it not the universal opinion that Dartmouth would be victorious with Amherst second, and Brown, *possibly* Technology, third?

Notwithstanding the adverse conditions of the weather, several records were broken, and had the track been faster, ninety-four's meeting would have replaced many a previous record, as nearly every member of the Association had a record-breaking contingent present.

But off to the events: Our supremacy began in the morning by placing two men in the finals of the four-forty, and through the results of these trials we found ourselves of equal caliber to our rivals. In fact, from the first pistol shot until dusk our men filled places which were supposedly certain acquisitions for Dartmouth and Amherst. We obtained points in the one hundred and two hundred and twenty yard dashes, and in the hurdles; again in the four-forty, Technology was at the front; also, in the mile and two mile runs we figured very prominently, to say nothing of the bicycle race, when it was only a question, "Which of our men will win?" The whole meeting was full of surprises; the bright and expectant faces of the morning grew darker and darker as the day drew to a close. Williams, Brown, and Technology formed the happy triumvirate. With but few points for the other colleges, they fought their fight while their rivals were left to solve the problem and wonder why it is that the "most unexpected often happens."

The games over, the victory won, the athletic pride of the M. I. T. took its departure from the battlefield under the cheers of both friend and foe. And now for the glory and fame they have brought us, let us say,

Long live Technology; Rah! Rah! Rah!

# Eighth Annual Meeting of the N. E. I. A. A.

Worcester, May 23, 1894.

EVENT.	TIME OR DISTANCE.	FIRST.			SECOND.			THIRD.		
		H. S. PATTERSON, W.	W. S. DEYO, W.	R. W. CARR, M. I. T.	W. S. DEYO, W.	R. W. CARR, M. I. T.	R. W. CARR, M. I. T.	H. L. TWITCHELL, A.	F. W. MARVEL, Br.	C. O. SEYMOUR, A.
100-Yard Dash	. . . . .	10 $\frac{1}{2}$ s.	23 $\frac{1}{2}$ s.	51 $\frac{1}{2}$ s.	J. A. ROCKWELL, Jr., M. I. T.	F. P. CLAGGETT, D.	J. A. ROCKWELL, Jr., M. I. T.	C. O. SEYMOUR, A.	G. W. PARKER, D.	D. HALL, D.
220-Yard Dash	. . . . .	2 m. 1 $\frac{1}{2}$ s.	4 m. 39 $\frac{1}{2}$ s.	10 m. 28 $\frac{1}{2}$ s.	G. CLAPP, M. I. T.	A. G. BUGBEE, D.	G. CLAPP, M. I. T.	F. W. LORD, M. I. T.	E. PICTNEY, W.	A. F. POST, A.
440-Yard Dash	. . . . .	2 m. 1 $\frac{1}{2}$ s.	4 m. 39 $\frac{1}{2}$ s.	10 m. 28 $\frac{1}{2}$ s.	L. F. SOULE, B.	B. HURD, Jr., M. I. T.	A. M. LYON, D.	A. F. POST, A.	J. W. ANGELL, Br.	S. CHASE, D.
880-Yard Dash	. . . . .	4 m. 39 $\frac{1}{2}$ s.	10 m. 28 $\frac{1}{2}$ s.	* 16 s.	S. CHASE, D.	B. HURD, Jr., M. I. T.	A. M. LYON, D.	A. F. POST, A.	J. W. ANGELL, Br.	S. CHASE, D.
One-Mile Run	. . . . .	10 m. 28 $\frac{1}{2}$ s.	* 16 s.	* 26 $\frac{1}{2}$ s.	B. HURD, Jr., M. I. T.	A. M. LYON, D.	A. M. LYON, D.	A. F. POST, A.	J. W. ANGELL, Br.	S. CHASE, D.
Two-Mile Run	. . . . .	* 16 s.	* 26 $\frac{1}{2}$ s.	* 5 m. 27 $\frac{1}{2}$ s.	H. F. HOUGHTON, A.	W. C. MARMON, M. I. T.	J. T. BURNS, M. I. T.	J. R. ALLEN, W.	H. M. TYLER, A.	G. T. ELLIS, Br.
120 Hurdle	. . . . .	* 7 m. 15 $\frac{1}{2}$ s.	* 5 m. 27 $\frac{1}{2}$ s.	* 22 ft. 2 in.	W. C. MARMON, M. I. T.	F. W. MARVEL, Br.	S. A. MACOMBER, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	H. L. TOWNE, W.
220 Hurdle	. . . . .	* 7 m. 15 $\frac{1}{2}$ s.	* 5 m. 27 $\frac{1}{2}$ s.	* 22 ft. 2 in.	H. F. HOUGHTON, A.	F. W. MARVEL, Br.	S. A. MACOMBER, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	H. L. TOWNE, W.
One-Mile Walk	. . . . .	* 7 m. 15 $\frac{1}{2}$ s.	* 5 m. 27 $\frac{1}{2}$ s.	* 22 ft. 2 in.	W. C. MARMON, M. I. T.	F. W. MARVEL, Br.	S. A. MACOMBER, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	H. L. TOWNE, W.
Two-Mile Walk	. . . . .	* 7 m. 15 $\frac{1}{2}$ s.	* 5 m. 27 $\frac{1}{2}$ s.	* 22 ft. 2 in.	H. F. HOUGHTON, A.	F. W. MARVEL, Br.	S. A. MACOMBER, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	H. L. TOWNE, W.
Running Bicycle	. . . . .	* 5 m. 27 $\frac{1}{2}$ s.	* 22 ft. 2 in.	* 5 ft. 7 $\frac{1}{4}$ in.	W. C. MARMON, M. I. T.	F. W. MARVEL, Br.	S. A. MACOMBER, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	H. L. TOWNE, W.
Running Broad Jump	. . . . .	* 22 ft. 2 in.	* 5 ft. 7 $\frac{1}{4}$ in.	* 109 ft. 10 in.	F. W. MARVEL, Br.	S. A. MACOMBER, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	H. L. TOWNE, W.
Running High Jump	. . . . .	* 5 ft. 7 $\frac{1}{4}$ in.	* 109 ft. 10 in.	* 37 ft. 3 $\frac{1}{2}$ in.	S. A. MACOMBER, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	H. L. TOWNE, W.
Throwing Hammer (16 lbs.)	. . . . .	* 109 ft. 10 in.	* 37 ft. 3 $\frac{1}{2}$ in.	10 ft. 2 $\frac{1}{4}$ in.	F. E. SMITH, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	F. E. SMITH, Br.	H. L. TOWNE, W.
Putting Shot (16 lbs.)	. . . . .	* 37 ft. 3 $\frac{1}{2}$ in.	10 ft. 2 $\frac{1}{4}$ in.		H. L. TOWNE, W.	M. D. DUNNING, A.				
Pole Vault	. . . . .	10 ft. 2 $\frac{1}{4}$ in.			M. D. DUNNING, A.					

(TOWNE wins toss.)

## ABBREVIATIONS.

A.—Amherst.	B.—Bowdoin.	Br.—Brown.	D.—Dartmouth.	M. I. T.—Massachusetts Institute of Technology.	Wes.—Wesleyan.
			Wor.—Worcester Polytechnic Institute.		

\* New record.

## Summary.

EVENTS.	DART.	AM.	BR.	WES.	M.I.T.	WOR.	WMS.	BOW.	TR.	U. V.
100-Yard Dash . . . . .	..	..	..	..	1	..	8	..	..	..
220-Yard Dash . . . . .	..	1	..	..	3	..	5	..	..	..
440-Yard Dash . . . . .	3	..	1	..	5	..	..	..	..	..
Half-Mile Run . . . . .	..	1	..	5	3	..	..	..	..	..
One-Mile Run . . . . .	4	..	..	..	5	..	..	..	..	..
Two-Mile Run . . . . .	1	..	..	..	3	..	..	5	..	..
120-Yard Hurdle . . . . .	5	..	..	..	4	..	..	..	..	..
220-Yard Hurdle . . . . .	3	..	..	..	5	..	1	..	..	..
Mile Walk . . . . .	..	6	..	..	..	..	3	..	..	..
Two-Mile Bicycle . . . . .	..	..	1	..	8	..	..	..	..	..
Running Broad Jump . . . . .	1	..	5	..	..	..	3	..	..	..
Running High Jump . . . . .	..	3	5	..	..	..	..	1	..	..
Throwing Hammer . . . . .	..	..	8	..	1	..	..	..	..	..
Putting Shot . . . . .	1	..	5	..	..	..	..	..	3	..
Pole Vault . . . . .	$\frac{1}{2}$	4 $\frac{1}{2}$	$\frac{1}{2}$	..	..	..	4	..	..	..
Totals,	18 $\frac{1}{2}$	15 $\frac{1}{2}$	25 $\frac{1}{2}$	5	38	0	24	6	3	0

The New England I. A. A. Records are now as follows:

100-Yard Dash . . . . .	10 $\frac{1}{4}$ s.	Williams, 1893.
220-Yard Dash . . . . .	22 $\frac{1}{4}$ s.	Dartmouth, 1892.
440-Yard Dash . . . . .	50 $\frac{1}{4}$ s.	Amherst, 1891.
Half-Mile Run . . . . .	2 m. 1 $\frac{3}{4}$ s.	Worcester, 1891.
One Mile Run . . . . .	4 m. 32 $\frac{1}{2}$ s.	Wesleyan, 1893.
Two-Mile Run . . . . .	10 m. 8 $\frac{1}{2}$ s.	Wesleyan, 1893.
120-Yard Hurdle . . . . .	16 s.	Dartmouth, 1894.
220-Yard Hurdle . . . . .	26 s.	Dartmouth, 1892.
Mile Walk . . . . .	7 m. 15 $\frac{3}{4}$ s.	Amherst, 1894.
Two-Mile Bicycle . . . . .	5 m. 27 $\frac{1}{2}$ s.	M. I. T., 1894.
Running Broad Jump . . . . .	22 ft. 2 in.	Brown, 1894.
Running High Jump . . . . .	5 ft. 9 in.	Dartmouth, 1892.
Throwing Hammer (16 pounds) . . . . .	109 ft. 10 in.	Brown, 1894.
Putting Shot (16 pounds) . . . . .	38 ft. 3 $\frac{1}{2}$ in.	Amherst, 1892.
Pole Vault . . . . .	10 ft. 9 in.	Williams, 1892.

## Summary for the Eight Years.

	First Prizes.	Second Prizes.		First Prizes.	Second Prizes.
Amherst . . . . .	46	29 $\frac{1}{2}$	Wesleyan . . . . .	7	7 $\frac{1}{2}$
Dartmouth . . . . .	37 $\frac{1}{2}$	29 $\frac{1}{2}$	Trinity . . . . .	3	9
Williams . . . . .	18	24 $\frac{1}{2}$	M. I. T. . . . .	4	5
Brown . . . . .	12	10	Bowdoin . . . . .	1	1
Worcester . . . . .	7	18 $\frac{1}{2}$	University of Vermont . . . . .	0	1

### WINNERS OF THE CUP.

1887 . . . . .	Dartmouth.	1891 . . . . .	Amherst.
1888 . . . . .	Amherst.	1892 . . . . .	Amherst.
1889 . . . . .	Dartmouth.	1893 . . . . .	Dartmouth.
1890 . . . . .	Amherst.	1894 . . . . .	M. I. T.



WORCESTER, MAY 23, 1894

**M.I.T.**

POINTS  
**38**

BROWN	25½
WILLIAMS	24
DARTMOUTH	18½
AMHERST	18½
BOWDOIN	8
WESLEYAN	5
TRINITY	3

*University of Vermont and  
Worcester Agricultural Institute  
failed to score.*

**M.I.T. WINNERS.**

F.W. LORD, '84	Goal
G. CLAPP, '85	Goal
B. MURD, JR. '86	Goal
J.A. ROCKWELL, JR. '86	Goal
W.C. MARION, '86	Goal
R.K. CARR, '85	Goal
J.T. BURNS, L.S. & D.	Goal
C.H. PARKER, '85	Goal



## Amateur Records, October 1, 1894.

### 100-Yard Dash.

World's Record —  $9\frac{1}{2}$  s. John Owen, Jr., Washington, D. C., Oct. 11, 1890.  
 American Record —  $9\frac{1}{2}$  s. John Owen, Jr., Washington, D. C., Oct. 11, 1890.  
 Intercollegiate Record — 10 s. L. H. Cary, Princeton, May 30, 1891; E. S. Ramsdell, U. of Penn., May 26, 1894.

### 220-Yard Dash.

World's Record —  $21\frac{1}{2}$  s. C. G. Wood, England, June 25, 1887; C. G. Wood, England, July 22, 1887; T. I. Lee, Montreal, Sept. 29, 1894; L. H. Cary, May 30, 1891.  
 American Record —  $21\frac{1}{2}$  s. L. H. Cary, May 30, 1891.  
 Intercollegiate Record —  $21\frac{1}{2}$  s. L. H. Cary, May 30, 1891.

### 440-Yard Dash.

World's Record —  $47\frac{3}{4}$  s. Wendel Baker, July 1, 1886.  
 American Record —  $47\frac{3}{4}$  s. Wendel Baker, July 1, 1886.  
 Intercollegiate Record —  $49\frac{1}{4}$  s. J. B. Shattuck, Amherst, May 30, 1891.

### 880-Yard Run.

World's Record — 1 m.  $54\frac{1}{2}$  s. F. J. K. Cross, England, March 9, 1888.  
 American Record — 1 m.  $54\frac{1}{2}$  s. W. C. Dohm, Princeton, Sept. 19, 1891.  
 Intercollegiate Record — 1 m.  $57\frac{1}{2}$  s. W. C. Dohm, Princeton, May 31, 1891.

### Mile Run.

World's Record — 4 m.  $17\frac{1}{2}$  s. T. P. Conneff, Cambridge, Mass., Aug. 26, 1893.  
 American Record — 4 m.  $17\frac{1}{2}$  s. T. P. Conneff, Cambridge, Mass., Aug. 26, 1893.  
 Intercollegiate Record — 4 m.  $26\frac{1}{2}$  s. G. O. Jarvis, Wesleyan, May 26, 1894.

### Two-Mile Run.

World's Record — 9 m.  $17\frac{1}{2}$  s. W. G. George, England, April 26, 1894.  
 American Record — 9 m.  $32\frac{1}{2}$  s. W. D. Day, May 17, 1890.  
 Intercollegiate Record — Not an intercollegiate event.

### Mile Walk.

World's Record — 6 m.  $29\frac{1}{2}$  s. F. P. Murray, New York, Oct. 27, 1883.  
 American Record — 6 m.  $29\frac{1}{2}$  s. F. P. Murray, New York, Oct. 27, 1883.  
 Intercollegiate Record — 6 m.  $52\frac{1}{2}$  s. F. A. Bocherling, Princeton, May 28, 1892.

### 120-Yard Dash (3 ft. 6 in. hurdles).

World's Record —  $15\frac{1}{2}$  s. S. Chase, New York, Sept. 15, 1894.  
 American Record —  $15\frac{1}{2}$  s. S. Chase, New York, Sept. 15, 1894.  
 Intercollegiate Record —  $15\frac{1}{2}$  s. H. L. Williams, Yale, May 30, 1891.

### 220-Yard Dash (2 ft. 6 in. hurdles).

World's Record —  $24\frac{1}{2}$  s. J. L. Bremer, Jr., May 12, 1894.  
 American Record —  $24\frac{1}{2}$  s. J. L. Bremer, Jr., May 12, 1894.  
 Intercollegiate Record —  $25\frac{1}{2}$  s. H. L. Williams, Yale, May 30, 1891; J. L. Bremer, H. A. A., May 26, 1894.

### Running High Jump.

World's Record — 6 ft.  $4\frac{1}{4}$  in. M. F. Sweeney, New York, Oct. 8, 1892.  
 American Record — 6 ft.  $4\frac{1}{4}$  in. M. F. Sweeney, New York, Oct. 8, 1892.  
 Intercollegiate Record — 6 ft.  $\frac{1}{2}$  in. G. R. Fearing, Harvard, May 28, 1892.

### Running Long Jump.

World's Record — 23 ft.  $6\frac{1}{2}$  in. C. S. Reber, Detroit, July 4, 1891.  
 American Record — 23 ft.  $6\frac{1}{2}$  in. C. S. Reber, Detroit, July 4, 1891.  
 Intercollegiate Record — 22 ft.  $11\frac{1}{4}$  in. Victor Mapes, Columbia, May 30, 1891.

### Putting Shot (16 lbs).

World's Record — 47 ft. G. R. Gray, Chicago, Sept. 16, 1893.  
 American Record — 47 ft. G. R. Gray, Chicago, Sept. 16, 1893.  
 Intercollegiate Record — 42 ft. W. O. Hickok, Yale, May 26, 1894.

### Throwing Hammer (16 lbs).

World's Record — 145 ft.  $\frac{3}{4}$  in. J. S. Mitchell, New York, Oct. 8, 1892.  
 American Record — 145 ft.  $\frac{3}{4}$  in. J. S. Mitchell, New York, Oct. 8, 1892.  
 Intercollegiate Record — 123 ft. 9 in. W. O. Hickok, Yale, May 26, 1894.

### Pole Vault for Height.

World's Record — 11 ft. 9 in. R. D. Dickenson, Ireland, Sept. 17, 1892.  
 American Record — 11 ft.  $5\frac{3}{8}$  in. W. S. Rodenburgh, Philadelphia, Sept. 17, 1892.  
 Intercollegiate Record — 10 ft.  $10\frac{1}{2}$  in. C. T. Buckholtz, U. of Penn., May 27, 1893.



#### Officers.

##### *President.*

B. HURD, JR., '96.

##### *Secretary.*

J. P. ILSLEY, JR., '97.

##### *Vice President.*

H. W. ALLEN, '97.

##### *Treasurer.*

W. C. MARMON, '95.

#### Executive Committee.

J. W. THOMAS, '95, *Track Captain.*

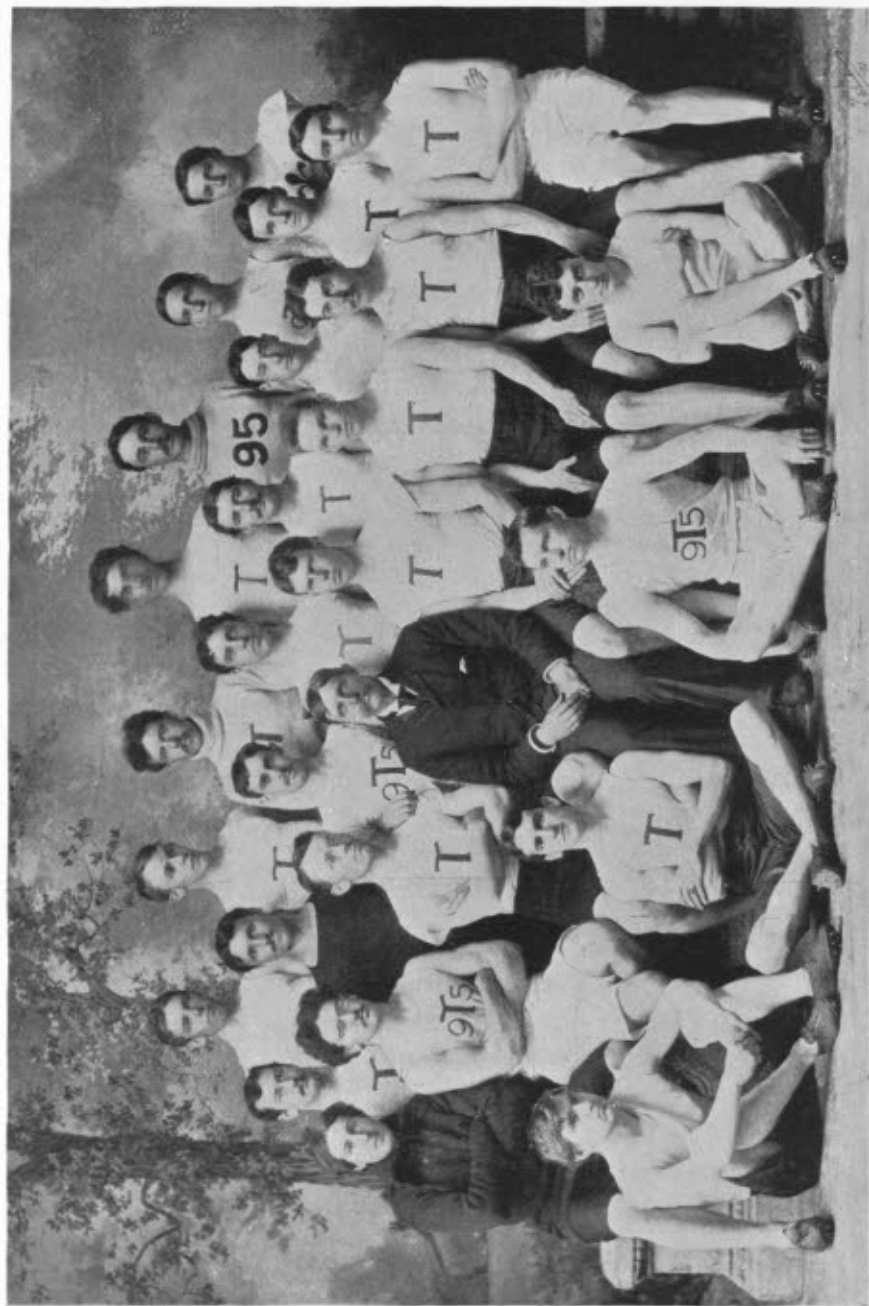
##### *Class Captains.*

C. F. TILLINGHAST, '95.

J. A. ROCKWELL, JR., '96.

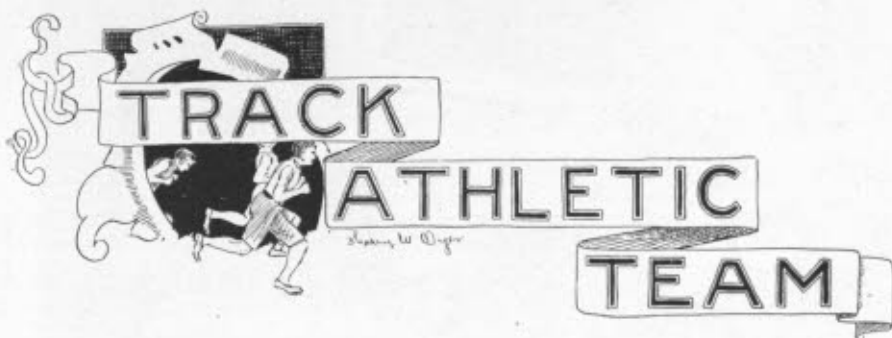
E. A. SUMNER, JR., '97.

A. SARGENT, '98.



LANE, BAKENIUS, POWERS, PARKER, BOEDEKER, CLAPP, SHAW,  
 STURGIS, BURNETT, TILLINGHAST, HURD, ROCKWELL, STOUGHTON, FARQUHAR,  
 VEDDER, THOMAS, MARMON, MR. GRAHAM, LORD, Captain, HALL, OWEN, SHEAFE,  
 TAYLOR, CUMMINGS, BOESKE, GROSH.

N. I. T. Track Athletic Team, 1914.



### Officers.

*Captain.*

J. W. THOMAS, '95.

*Manager.*

W. C. MARMON, '95.

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### Advisory Board.

CLASS CAPTAINS AND SECRETARY OF M. I. T. A. C.

---

### Track Team.

E. A. BOESEKE, '95.

R. W. CARR, '95.

R. D. FARQUHAR, '95.

W. A. HALL, '95.

W. C. MARMON, '95.

C. H. PARKER, '95.

W. POWERS, '95.

J. W. THOMAS, '95.

C. F. TILLINGHAST, '95.

J. DRISCOLL, '96.

B. HURD, JR., '96.

J. A. ROCKWELL, JR., '96.

J. T. BURNS, L. S. OF D.





TAYLOR.	HALL.	PARKER.	BOEDEKER.	POWERS.	STURGIS.
MARMON.	TILLINGHAST.	CLAPP.	MR. GRAHAM.	THOMAS.	FARQUHAR.
SHAW.	BOESEKE, Captain.	SHEAFE.	STOUGHTON.		

'95 Track Team.

# Class Championship.

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## '95 Track Team.

### *Captain.*

E. A. BOESEKE.

J. BOEDEKER.

G. CLAPP.

R. D. FARQUHAR.

W. A. HALL.

W. C. MARMON.

C. H. PARKER.

W. POWERS.

A. V. SHAW.

H. J. SHEAFE.

B. STOUGHTON.

R. STURGIS, 2D.

W. B. TAYLOR.

J. W. THOMAS.

C. F. TILLINGHAST.



# Technology Records.

## Standard Events.

<i>100-Yards Dash</i>	. . . . .	10½ s.	. . .	C. R. BOSS, '93.
<i>220-Yards Dash</i>	. . . . .	23 s.	. . .	R. W. CARR, '95.
<i>440-Yards Dash</i>	. . . . .	51½ s.	. . .	J. A. ROCKWELL, JR., '96.
<i>Half-Mile Run</i>	. . . . .	2 m. 6⅔ s.	. . .	T. SPENCER, '91.
<i>One-Mile Run</i>	. . . . .	4 m. 37½ s.	. . .	G. CLAPP, '95.
<i>Two-Mile Run</i>	. . . . .	11 m. 28½ s.	. . .	G. CLAPP, '95.
<i>One-Mile Walk</i>	. . . . .	8 m. 5½ s.	. . .	A. H. ALLEY, '91.
<i>120-Yards Hurdle</i>	. . . . .	16½ s.	. . .	B. HURD, JR., '96.
<i>220-Yards Hurdle</i>	. . . . .	26½ s.	. . .	B. HURD, JR., '96.
<i>Two-Mile Bicycle</i>	. . . . .	5 m. 26½ s.	. . .	W. C. MARMON, '95.
<i>Running High Jump</i>	. . . . .	6 ft. ½ in.	. . .	C. D. HEYWOOD, '93.
<i>Running Broad Jump</i>	. . . . .	20 ft. 8½ in.	. . .	J. CRANE, JR., '92.
<i>Pole Vault</i>	. . . . .	10 ft. 7 in.	. . .	J. CRANE, JR., '92.
<i>Putting Shot (16 lbs.)</i>	. . . . .	36 ft. 2¼ in.	. . .	J. C. E. DE BULLET, '92.
<i>Throwing Hammer (16 lbs.)</i>	. . . . .	96 ft. 4 in.	. . .	C. H. PARKER, '95.

## Special Events.

<i>20-Yards Dash</i>	. . . . .	3 s.	. . .	F. W. LORD, '94.
<i>35-Yards Dash</i>	. . . . .	4⅔ s.	. . .	A. SARGENT, '98.
<i>35-Yards Low Hurdle</i>	. . . . .	4½ s.	. . .	B. HURD, JR., '96.
<i>Potato Race</i>	. . . . .	50½ s.	. . .	J. A. ROCKWELL, JR., '96.
<i>Class Team Race</i>	. . . . .	3 m. 18 s.	. . .	CLASS OF '94.
<i>Cross Country Run (M. I. T. Gym. to Coolidge's Corner and return),</i>		29 m. 52 s.	. . .	G. CLAPP, '95.
<i>Standing High Jump</i>	. . . . .	4 ft. 10 in.	. . .	F. R. YOUNG, '86.
<i>Standing Broad Jump</i>	. . . . .	10 ft. 1½ in.	. . .	L. BURNETT, '96.
<i>Standing Three Broad Jumps</i>	. . . . .	32 ft. 8½ in.	. . .	E. A. BOESEKE, '95.
<i>Running High Kick</i>	. . . . .	9 ft. 3½ in.	. . .	C. D. HEYWOOD, '93.
<i>Fence Vault</i>	. . . . .	7 ft. 2 in.	. . .	W. F. RIPLEY, '82.
<i>Rope Climb (20 ft. rope)</i>	. . . . .	5½ s.	. . .	H. O. CARRIER, '95.

# Team Races.

## Boston Athletic Association Games, February 10, 1894.

### M. I. T.

1. E. L. ANDREWS, '94.
2. F. W. LORD (Capt.), '94.
3. G. OWEN, JR., '94.
4. G. CLAPP, '95.
5. J. W. THOMAS, '95.
6. J. A. ROCKWELL, JR., '96.

### W. P. I.

1. M. C. ALLEN.
2. J. M. GALLAGHER.
3. T. F. O'CONNOR.
4. W. S. KILLAM.
5. E. B. WHIPPLE.

Won by M. I. T. Time, 3 m. 21 s.

The men ran in the following order: M. I. T., 3, 5, 2, 6.  
W. P. I., 5, 3, 1, 2.

## Worcester Athletic Club Games, March 3, 1894, for the Championship of New England.

### M. I. T.

1. E. L. ANDREWS, '94.
2. F. W. LORD (Capt.), '94.
3. G. OWEN, JR., '94.
4. G. CLAPP, '95.
5. J. W. THOMAS, '95.
6. J. A. ROCKWELL, JR., '96.

### W. A. C.

1. H. L. DADMUN.
2. J. D. DELANEY.
3. J. M. GALLAGHER.
4. W. H. ALLISON.
5. J. J. McLAUGHLIN.

Won by W. A. C., 1st team. Time, 3 m. 18 s.  
M. I. T., second.

The men ran in the following order: M. I. T., 3, 5, 2, 6.  
W. A. C., 2, 4, 3, 1.

## Boston Athletic Association Games, February 9, 1895.

### M. I. T.

1. J. W. THOMAS (Capt.), '95.
2. E. A. BOESEKE, '95.
3. C. F. TILLINGHAST, '95.
4. H. J. CUMMINGS, '96.
5. R. E. BAKENHUS, '96.
6. J. A. ROCKWELL, JR., '96.

### BROWN.

1. S. ADAMS.
2. F. L. HALL.
3. E. T. HULL.
4. H. C. HULL.
5. D. F. O'BRIEN.
6. G. H. OLNEY.

Won by M. I. T. Time, 3 m. 19½ s.

The men ran in the following order: M. I. T., 1, 5, 4, 6.  
BROWN, 5, 3, 2, 1.

## Individual Excellence Cap

For the Year 1893-1894.

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Won by L. BURNETT, '96, with 28 points.

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## Summary of Points for Individual Excellence Cap

For the Year 1893-1894.

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L. BURNETT, '96 . . . . .	28	W. Q. HUEY, '96 . . . . .	5
G. CLAPP, '95 . . . . .	22	A. C. LOOTZ, '96 . . . . .	5
F. W. LORD, '94 . . . . .	21	W. B. TAYLOR, '95 . . . . .	4
B. HURD, JR., '96 . . . . .	18	E. A. SUMNER, JR., '97 . . . . .	4
J. A. ROCKWELL, JR., '96 . . . . .	17	A. A. CLEMENT, '94 . . . . .	3
R. D. FARQUHAR, '95 . . . . .	16	C. H. PARKER, '95 . . . . .	3
E. A. BOESEKE, '95 . . . . .	15	W. POWERS, '95 . . . . .	3
R. W. CARR, '95 . . . . .	13	B. STOUGHTON, '95 . . . . .	3
J. W. THOMAS, '95 . . . . .	12	C. F. TILLINGHAST, '95 . . . . .	3
E. L. ANDREWS, '94 . . . . .	10	J. T. BURNS, L. S. of D. . . . .	3
R. STURGIS, 2D, '95 . . . . .	10	W. S. COBURN, '97 . . . . .	3
G. OWEN, JR., '94 . . . . .	8	W. PAGE, '97 . . . . .	3
T. P. CURTISS, '94 . . . . .	7	E. R. VEDDER, '97 . . . . .	3
A. SPERRY, '94 . . . . .	7	C. W. DICKEY, '94 . . . . .	1
R. E. BAKENHUS, '96 . . . . .	7	J. BOEDEKER, '95 . . . . .	1
W. C. MARMON, '95 . . . . .	5	S. CABOT, '96 . . . . .	1
A. V. SHAW, '95 . . . . .	5	H. CUMMINGS, JR., '96 . . . . .	1
H. J. SHEAFE, '95 . . . . .	5	J. DRISCOLL, '96 . . . . .	1
W. A. HALL, '95 . . . . .	5	H. K. SEARS, '96 . . . . .	1
W. J. BATCHELDER, '96 . . . . .	5	R. S. WHITING, '96 . . . . .	1

# New England Indoor Championships

HELD BY

The M. I. T. Athletic Club and First Regiment Athletic Club.

South Armory, March 10, 1894.

<i>75-Yard Dash</i> . . . . .	8 s. . . . .	B. J. WEFERS, B. C. A. A.
<i>M. I. T. Class Team Race</i> . . . . .	3 m. 18 s. . . . .	'94, First; '95, Second.
<i>1000-Yard Run</i> . . . . .	2 m. 27½ s. . . . .	E. B. HILL, H. A. A.
<i>Half Mile Heavy Marching Order</i> , 2 m. 45 s. . . . .		C. A. POLAND, Second Reg't.
<i>Naval Tug of War</i> . . . . .	2 straight pulls, . . . . .	Co. B (Naval), from First Reg't.
<i>600-Yard Run</i> . . . . .	1 m. 18½ s. . . . .	S. M. MERRILL, H. A. A.
<i>One-Mile Run</i> . . . . .	4 m. 39½ s. . . . .	A. BLAKE, B. A. A.
<i>70-Yard Hurdle</i> . . . . .	9½ s. . . . .	S. CHASE, W. A. C.
<i>Running High Jump</i> . . . . .	5 ft. 10¼ in. . . . .	P. C. STINGEL, B. A. A.
<i>300-Yard Run</i> . . . . .	36½ s. . . . .	H. M. WHEELWRIGHT, H. A. A.
<i>Harvard Class Team Race</i> . . . . .	3 m. 21½ s. . . . .	'95, First; '94, Second.
<i>Regimental Team Race</i> . . . . .	3 m. 32½ s. . . . .	{ Co. A, Second Reg't, First. Co. B (Naval), Second.

# Annual Outdoor Spring Meeting.

Holmes' Field, May 11, 1894.

EVENTS.	TIME OR DISTANCE.	FIRST.	SECOND.
100-Yard Dash	. . . . . 10 $\frac{3}{8}$ s.	R. W. CARR, '95	B. HURD, Jr., '96.
220-Yard Dash	. . . . . 23 s.	R. W. CARR, '95	F. W. LORD, '94.
440-Yard Dash	. . . . . 54 $\frac{1}{2}$ s.	J. A. ROCKWELL, Jr., '96	W. POWERS, '95.
Half-Mile Run	. . . . . 2 m. 10 $\frac{1}{2}$ s.	J. A. ROCKWELL, Jr., '96	J. W. THOMAS, '95.
One-Mile Run	. . . . . * 4 m. 37 s.	G. CLAPP, '95	W. A. HALL, '95.
Two-Mile Run	. . . . . 11 m. 28 $\frac{1}{2}$ s.	G. CLAPP, '95	W. B. TAYLOR, '95.
120-Yard Hurdle	. . . . . 16 $\frac{1}{8}$ s.	B. HURD, Jr., '96	F. W. LORD, '94.
220-Yard Hurdle	. . . . . 26 $\frac{3}{8}$ s.	B. HURD, Jr., '96	E. L. ANDREWS, '94.
One-Mile Walk	. . . . . 9 m. 8 s.	H. J. SHEAFE, '95	W. PAGE, '97.
Two-Mile Bicycle (Safety)	. . . . . 6 m. 5 s.	W. C. MARMON, '95	J. T. BURNS, L. S. of D.
Running High Jump	. . . . . 5 ft. 5 $\frac{1}{4}$ in.	{ R. D. FARQUHAR, '95 A. SPERRY, '94	. . . . .
Running Broad Jump	. . . . . 20 ft. 6 $\frac{1}{2}$ in.	L. BURNETT, '96	R. D. FARQUHAR, '95.
Pole Vault	. . . . . 9 ft. 3 $\frac{1}{2}$ in.	A. V. SHAW, '95	E. R. VEDDER, '97.
Putting Shot (16 lbs.)	. . . . . 34 ft. 1 in.	L. BURNETT, '96	A. C. LOOTZ, '96.
Throwing Hammer (16 lbs.)	. . . . . * 95 ft. 6 in.	L. BURNETT, '96	C. H. PARKER, '95.
'94 won 14 points.		'95 won 66 points.	'97 won 10 points.

\* Record.





# Fourteenth Indoor Winter Meeting.

December 8, 1894.

EVENT.	TIME OR DISTANCE.	FIRST.	SECOND.
35-Yard Dash . . . . .	* 4 $\frac{1}{2}$ s. . . . .	† A. SARGENT, '98 . . . . .	R. W. CARR, '95.
35-Yard Hurdle . . . . .	* 4 $\frac{1}{2}$ s. . . . .	‡ B. HURD, Jr., '96 . . . . .	J. W. THOMAS, '95
Running High Jump . . . . .	5 ft. 5 $\frac{1}{4}$ in. . . . .	A. H. GREEN, '96 . . . . .	R. D. FARQUHAR, '95.
Three Standing Jumps . . . . .	* 32 ft. 8 in. . . . .	E. A. BOESEKE, '95 . . . . .	A. H. GREEN, '96.
Potato Race . . . . .	* 50 $\frac{1}{2}$ s. . . . .	J. A. ROCKWELL, Jr., '96 . . . . .	C. B. STEBBINS, '97.
Fence Vault . . . . .	6 ft. 10 in. . . . .	E. A. BOESEKE, '95 . . . . .	A. SARGENT, '98.
Pole Vault . . . . .	9 ft. $\frac{3}{4}$ in. . . . .	A. H. GREEN, '96 . . . . .	A. V. SHAW, '96.
Putting Shot (16 lbs.) . . . . .	32 ft. 10 $\frac{1}{2}$ in. . . . .	A. H. GREEN, '96 . . . . .	M. O. LEIGHTON, '96.
'95 won 22 points.	'96 won 36 points.	'97 won 4 points.	'98 won 10 points.

\* Record.

† Boeseke and Sargent ran trial heats in 4 $\frac{1}{2}$  s.

‡ Thomas and Hurd ran trial heats in 4 $\frac{1}{2}$  s.



BEERS.	AMES.	SWIFT.	TILLINGHAST, Manager.	COBURN.
VAN HORNE.	WASHBURN.	AULTMAN.	LEMOYNE.	MANAHAN.
HOWLAND.	RAWSON.	THOMAS, Captain.	MCCORMICK.	HAYDEN.
	UNDERWOOD.	MANSFIELD.	ROCKWELL.	WHITING.
				GOUDY.

'Varsity Football Team.



## Football Association.

### Officers.

#### *President.*

J. W. THOMAS, '95.

#### *Vice President.*

R. W. SWIFT, '95.

#### *Secretary and Treasurer.*

J. A. ROCKWELL, JR., '96.

#### *Manager.*

C. F. TILLINGHAST, '95.

#### *Captain.*

J. W. THOMAS, '95.

#### *Executive Committee.*

C. F. TILLINGHAST, '95.

R. S. WHITING, '96.

J. S. HUMPHREYS, '97.

### 'Varsity Team.

D. E. AULTMAN, '95.

A. S. COBURN, '95.

R. W. SWIFT, '95.

B. AMES, '96.

J. H. MANAHAN, '96.

H. D. RAWSON, '96.

J. A. ROCKWELL, JR., '96.

H. P. BEERS, '97.

F. B. GOUDEY, '97.

L. A. HAYDEN, '97.

R. S. HOWLAND, '97.

F. E. MANSFIELD, '97.

E. B. McCORMICK, '97.

T. WASHBURN, '97.

R. S. WHITING, '97.

F. E. UNDERWOOD, '97.

C. LeMOYNE, '98.

R. B. VAN HORNE, '98.

# 'Varsity Eleven.

## Summary of Games.

Exeter, N. H., September 29, 1894, Exeter vs. Technology. Score: 0-0.

EXETER.						TECHNOLOGY.
GILLESPIE	.	.	.	.	R. E.	PARKER.
SCANNELL	.	.	.	.	R. T.	SWIFT.
RICHARDS	.	.	.	.	R. G.	LEMOYNE.
KASSON	.	.	.	.	C.	MANAHAN.
BREEM	.	.	.	.	L. G.	MCCORMICK.
CASEY	.	.	.	.	L. T.	WHITING.
STACK	.	.	.	.	L. E.	RAWSON.
RICHARDSON	.	.	.	.	Q. B.	THOMAS.
GIBBONS	.	.	.	.	R. H.	BEERS.
JACK	.	.	.	.	L. H.	HALL.
FARR	.	.	.	.	F. B.	UNDERWOOD.

Exeter, first half, 0; second half, 0.

M. I. T., first half, 0; second half, 0.

Boston, Mass., October 6, 1894, Worcester Polytechnic Institute vs. Technology. Score: 0-6.

W. P. I.						TECHNOLOGY.
WARE	.	.	.	.	R. E.	AMES.
SMITH	.	.	.	.	R. T.	COBURN.
BRIGHAM	.	.	.	.	R. G.	LEMOYNE.
RILEY	.	.	.	.	C.	MANAHAN.
DAVIS	.	.	.	.	L. G.	MCCORMICK.
LELAND	.	.	.	.	L. T.	VAN HORNE.
HARRIS	.	.	.	.	L. E.	{ RAWSON.
						{ SWIFT.
						{ THOMAS.
WARREN	.	.	.	.	Q. B.	{ MANSFIELD.
MAYO	.	.	.	.	R. H.	HAYDEN.
ALLEN	.	.	.	.	L. H.	ROCKWELL.
CUNNINGHAM	.	.	.	.	F. B.	UNDERWOOD.

Worcester P. I., first half, 0; second half, 0.

M. I. T., first half, 0; second half, 6.

Amherst, Mass., October 10, 1894, Amherst vs. Technology. Score: 6-4.

AMHERST.						TECHNOLOGY.
ROSA	.	.	.	.	R. E.	AMES.
TYLER	.	.	.	.	R. T.	COBURN.
WARREN	.	.	.	.	R. G.	LEMOYNE.
BISHOP	.	.	.	.	C.	MANAHAN.
CAUTHERS	.	.	.	.	L. G.	MCCORMICK.
FOSDICK	.	.	.	.	L. T.	VAN HORNE.
HALL	.	.	.	.	L. E.	RAWSON.
PRATT	.	.	.	.	Q. B.	THOMAS.
FISHER	.	.	.	.	R. H.	HAYDEN.
CONVERSE	.	.	.	.	L. H.	ROCKWELL.
JOHNSTONE	.	.	.	.	F. B.	UNDERWOOD.
DEERING	.	.	.	.		

Amherst, first half, 0; second half, 6.

M. I. T., first half, 4; second half, 0.

Exeter, N. H., October 13, 1894, Exeter vs. Technology. Score: 10-10.

EXETER.					TECHNOLOGY.				
STACK	.	.	.	.	R. E.	.	.	.	AMES.
CASEY	.	.	.	.	R. T.	.	.	.	COBURN.
BREEN	.	.	.	.	R. G.	.	.	.	LEMOYNE.
KASSON	.	.	.	.	C.	.	.	.	MANAHAN.
SCANNELL	.	.	.	.	L. G.	.	.	.	MCCORMICK.
HAURAHAN	.	.	.	.	L. T.	.	.	.	VAN HORNE.
GILLESPIE	.	.	.	.	L. E.	.	.	.	SWIFT.
HAWKINS	.	.	.	.	Q. B.	.	.	.	MANSFIELD.
JACK	.	.	.	.	R. H.	.	.	.	HAYDEN.
GIBBONS	.	.	.	.	L. H.	.	.	.	THOMAS.
FARR	.	.	.	.	F. B.	.	.	.	ROCKWELL.

Exeter, first half, 6; second half, 4.  
M. I. T., first half, 4; second half, 6.

Boston, Mass., October 17, 1894, Boston Athletic Association vs. Technology. Score: 4-0.

B. A. A.					TECHNOLOGY.				
FULLER	}	.	.	.	R. E.	.	.	.	AMES
THAYER	}	.	.	.	R. T.	.	.	.	COBURN
SARGENT	}	.	.	.	R. G.	.	.	.	LEMOYNE
BLAGDEN	}	.	.	.	C.	.	.	.	MANAHAN.
WARE	.	.	.	.	L. G.	.	.	.	MCCORMICK.
CARPENTER	.	.	.	.	L. T.	.	.	.	WHITING.
FAY	.	.	.	.	L. E.	.	.	.	SWIFT.
WATERS	.	.	.	.	Q. B.	.	.	.	{ THOMAS.
MASON	.	.	.	.	R. H.	.	.	.	{ MANSFIELD.
ATHERTON	.	.	.	.	L. H.	.	.	.	HAYDEN.
BURNS	.	.	.	.	F. B.	.	.	.	ROCKWELL.
DEARBORN	.	.	.	.					UNDERWOOD.
CLARKSON	.	.	.	.					

B. A. A., first half, 0; second half, 4.  
M. I. T., first half, 0; second half, 0.

West Point, N. Y., October 20, 1894, West Point vs. Technology. Score: 42-0.

WEST POINT.					TECHNOLOGY.				
NOLAN	.	.	.	.	R. E.	.	.	.	AMES.
LOTT	.	.	.	.	R. T.	.	.	.	COBURN.
WILLIAMS	.	.	.	.	R. G.	.	.	.	LEMOYNE.
AMES	.	.	.	.	C.	.	.	.	MANAHAN.
BERRY	.	.	.	.	L. G.	.	.	.	MCCORMICK.
BUGGE	.	.	.	.	L. T.	.	.	.	{ WHITING.
DRURY	.	.	.	.	L. E.	.	.	.	{ VAN HORNE.
STOUT	.	.	.	.	Q. B.	.	.	.	RAWSON.
DALLAM	}	.	.	.	R. H.	.	.	.	{ THOMAS.
CONNOR	}	.	.	.					{ MANSFIELD.
STACY	}	.	.	.	L. H.	.	.	.	{ HAYDEN.
SHELTON	}	.	.	.	F. B.	.	.	.	{ THOMAS.
KING	}	.	.	.					ROCKWELL.
DUNCAN	}	.	.	.					UNDERWOOD.

W. P., first half, 26; second half, 16.  
M. I. T., first half, 0; second half, 0.

Boston, Mass., October 24, 1894, Brown vs. Technology. Score: 4-8.

BROWN.					TECHNOLOGY.				
ROBINSON	.	.	.	.	R. E.	.	.	.	AMES.
EMERY	.	.	.	.	R. T.	.	.	.	COBURN.
LANCY	.	.	.	.	R. G.	.	.	.	LEMOYNE.
COOMBS	.	.	.	.	C.	.	.	.	MANAHAN.
THAYER	.	.	.	.	L. G.	.	.	.	McCORMICK.
NOTT	.	.	.	.	L. T.	.	.	.	{ WHITING.
DENNISON	.	.	.	.	L. E.	.	.	.	{ SPRINGER.
DONOVAN	.	.	.	.	Q. B.	.	.	.	RAWSON.
FOULTZ	.	.	.	.	R. H.	.	.	.	MANSFIELD.
HOPKINS	.	.	.	.	L. H.	.	.	.	THOMAS.
MCCARTHY	.	.	.	.	F. B.	.	.	.	ROCKWELL.
									UNDERWOOD.

Brown, first half, 4; second half, 0.  
M. I. T., first half, 0; second half, 6.

College Hill, Mass., October 27, 1894, Tufts vs. Technology. Score: 4-0. \*

TUFTS.					TECHNOLOGY.				
DAVIS	.	.	.	.	R. E.	.	.	.	GOUDEY.
HOLBROOK	.	.	.	.	R. T.	.	.	.	COBURN.
RUSSELL	.	.	.	.	R. G.	.	.	.	LEMOYNE.
LANE	.	.	.	.	C.	.	.	.	MANAHAN.
HEALEY	.	.	.	.	L. G.	.	.	.	McCORMICK.
SIMPSON	.	.	.	.	L. T.	.	.	.	WHITING.
EDDY	.	.	.	.	L. E.	.	.	.	RAWSON.
KNOWLTON	}	.	.	.	Q. B.	.	.	.	MANSFIELD.
FREW		.	.	.					
CRAIG	.	.	.	.	R. H.	.	.	.	THOMAS.
SMITH	.	.	.	.	L. H.	.	.	.	ROCKWELL.
HAWES	.	.	.	.	F. B.	.	.	.	UNDERWOOD.

Tufts, first half, 4; second half not finished.  
M. I. T., first half, 0; second half not finished.

Williamstown, Mass., October 31, 1894, Williams vs. Technology. Score: 12-0.

WILLIAMS.					TECHNOLOGY.				
TAYLOR	.	.	.	.	R. E.	.	.	.	AMES.
TOWNSEND	.	.	.	.	R. T.	.	.	.	COBURN.
OGILVIE	.	.	.	.	R. G.	.	.	.	LEMOYNE.
HEALD	.	.	.	.	C.	.	.	.	MANAHAN.
LOTZ	.	.	.	.	L. G.	.	.	.	McCORMICK.
SOMOKEAY	.	.	.	.	L. T.	.	.	.	WHITING.
RYAN	.	.	.	.	L. E.	.	.	.	RAWSON.
BRADLEY	}	.	.	.	Q. B.	.	.	.	{ THOMAS.
STREET		.	.	.					{ MANSFIELD.
MATHER	.	.	.	.	R. H.	.	.	.	{ HAYDEN.
F. DRAPER	.	.	.	.	L. H.	.	.	.	{ THOMAS.
P. DRAPER	.	.	.	.	F. B.	.	.	.	ROCKWELL.
									UNDERWOOD.

Williams, first half, 12; second half, 0.  
M. I. T., first half, 0; second half, 0.

\* Unfinished.

Boston, Mass., November 3, 1894, Hyde Park vs. Technology. Score: 6-24.

HYDE PARK.				TECHNOLOGY.			
BROWN	}			R. E.		AMES.	
HOWARD	}						
HURD				R. T.		COBURN.	
DYER				R. G.		LEMOYNE.	
LEGATE				C.		MANAHAN.	
RUGGLES				L. G.		MCCORMICK.	
FREEMAN				L. T.		WASHBURN.	
BROWN	}			L. E.		RAWSON.	
RICE	}						
TOWER	}			Q. B.		MANSFIELD.	
DEMICK	}						
HULL				R. H.		THOMAS.	
						HOWLAND.	
HOUSE				L. H.		ROCKWELL.	
HAYWOOD				F. B.		UNDERWOOD.	

Hyde Park, first half, 6; second half, 0.  
M. I. T., first half, 18; second half, 6.

Boston, Mass., November 7, 1894, Bowdoin vs. Technology. Score: 6-6.

BOWDOIN.				TECHNOLOGY.			
FOSTER				R. E.		AMES.	
KIMBALL				R. T.		AULTMAN.	
BATES				R. G.		LEMOYNE.	
DENNISON				C.		MANAHAN.	
STONE				L. G.		MCCORMICK.	
DEWEY				L. T.		WASHBURN.	
HICKS				L. E.		RAWSON.	
KNOWLTON				Q. B.		MANSFIELD.	
MITCHELL				R. H.		THOMAS.	
STUBBS				L. H.		ROCKWELL.	
FAIRBANKS				F. B.		UNDERWOOD.	

Bowdoin, first half, 0; second half, 6.  
M. I. T., first half, 6; second half, 0.

Boston, Mass., November 12, 1894, Chicago Athletic Association vs. Technology. Score: 4-4.

C. A. A.				TECHNOLOGY.			
CAMP				R. E.		AMES.	
GRIFFIN				R. T.		AULTMAN.	
THOMAS				R. G.		LEMOYNE.	
STEVENSON				C.		MANAHAN.	
MCCORMICK				L. G.		MCCORMICK.	
BRIGGS				L. T.		WASHBURN.	
CULVER				L. E.		SWIFT.	
HENRY				Q. B.		THOMAS.	
WARDNER				R. H.		HAYDEN.	
						HOWLAND.	
JACKSON				L. H.		ROCKWELL.	
VAN DOOZER				F. B.		UNDERWOOD.	

C. A. A., first half, 4; second half, 0.  
M. I. T., first half, 0; second half, 4.



**Boston, Mass., November 17, 1894, Trinity vs. Technology. Score: 0-18.**

TRINITY.				TECHNOLOGY.			
STRAWBRIDGE	.	.	.	R. E.	.	.	AMES.
PENROSE	.	.	.	R. T.	.	.	{ AULTMAN.
MERWIN	.	.	.	R. G.	.	.	{ COBURN.
LORD	.	.	.	C.	.	.	LEMOYNE.
A. LANGFORD	.	.	.	L. G.	.	.	MANAHAN.
BEWELL	.	.	.	L. T.	.	.	McCORMICK.
McCOOK	.	.	.	L. E.	.	.	WHITING.
COGGESHALL	.	.	.	Q. B.	.	.	RAWSON.
DINGWELL	.	.	.	R. H.	.	.	{ THOMAS.
BEECROFT	.	.	.	L. H.	.	.	{ MANSFIELD.
W. LANGFORD	.	.	.	F. B.	.	.	{ HOWLAND.
							{ ROCKWELL.
							{ THOMAS.
							UNDERWOOD.

Trinity, first half, 0; second half, 0.

M. I. T., first half, 4; second half, 14.

**Providence, R. I., November 29, 1894, Brown vs. Technology. Score: 16-4.**

BROWN.				TECHNOLOGY.			
MATHESON	.	.	.	R. E.	.	.	AMES
NOTT	.	.	.	R. T.	.	.	AULTMAN.
SMITH	.	.	.	R. G.	.	.	LEMOYNE
COOMBS	.	.	.	C.	.	.	MANAHAN.
THAYER	.	.	.	L. G.	.	.	McCORMICK.
EMORY }	.	.	.	L. T.	.	.	WHITING.
LANCEY }	.	.	.				
DENNISON	.	.	.	L. E.	.	.	ROCKWELL.
DONOVAN	.	.	.	Q. B.	.	.	MANSFIELD.
FULTZ	.	.	.	R. H.	.	.	HAYDEN.
ROBINSON }	.	.	.	L. H.	.	.	THOMAS.
SHEADD }	.	.	.				
McCARTHY	.	.	.	F. B.	.	.	UNDERWOOD.

Brown, first half, 16; second half, 0.

M. I. T., first half, 0; second half, 4.

## Football Summary.

Games Played	.	.	.	.	.	.	.	.	.	14
Games Won	.	.	.	.	.	.	.	.	.	4
Games Lost	.	.	.	.	.	.	.	.	.	5
Tie Games	.	.	.	.	.	.	.	.	.	4
Unfinished Games	.	.	.	.	.	.	.	.	.	1
Total Points Scored by M. I. T.	.	.	.	.	.	.	.	.	.	84
Total Points Scored by Opponents	.	.	.	.	.	.	.	.	.	110

Average age of team, 20 years.

Average weight, 163 pounds.

Average height, 5 feet 10 inches.



## Schedule of Games for 1894.

			M. I. T.	Opponents.
Saturday, September 29th . . .	Exeter, at Exeter . . . .	0	0	
Saturday, October 6th . . .	Worcester Tech, at Boston . .	6	0	
Wednesday, October 10th . . .	Amherst, at Amherst . . .	4	6	
Saturday, October 13th . . .	Exeter, at Exeter . . . .	10	10	
Wednesday, October 17th . . .	B. A. A., at Boston . . .	0	4	
Saturday, October 20th . . .	West Point, at West Point . .	0	42	
Wednesday, October 24th . . .	Brown, at Boston . . . .	8	4	
Saturday, October 27th . . .	Tufts, at College Hill . . .	Unfinished		
Wednesday, October 31st . . .	Williams, at Williamstown . .	0	12	
Saturday, November 3d . . .	Hyde Park, at Boston . . .	24	6	
Wednesday, November 7th . . .	Bowdoin, at Boston . . .	6	6	
Monday, November 12th . . .	C. A. A., at Boston . . .	4	4	
Saturday, November 17th . . .	Trinity, at Boston . . . .	18	0	
Thursday, November 29th . . .	Brown, at Providence . . .	4	16	



VINTON.	GOUDY.	MEAD.	MANSFIELD.	WHITING.	CAPEN.	OSGOOD.
UNDERWOOD.	WASHBURN.	HAYDEN.		McCORMICK.	ISLEY.	WORCESTER.
		WARREN.		BEERS.		

'97 Football Team.

# '97 Football Team.

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## Manager.

W. T. PARKER, JR.

## Rushers.

F. B. GOUDEY . . . . .	ENDS . . . . .	G. W. WARREN.
R. S. WHITING . . . . .	TACKLES . . . . .	E. E. MEAD.
T. WASHBURN . . . . .	GUARDS . . . . .	E. B. MCCORMICK.

## Centre.

H. E. WORCESTER.

## Quarter Back.

F. E. MANSFIELD, Captain.

## Half Backs.

H. P. BEERS.

L. A. HAYDEN.

## Full Back.

F. E. UNDERWOOD.

## Substitutes.

C. A. CAPEN.

E. P. OSGOOD.

J. P. ILSLEY, JR.

T. M. VINTON.

## Game.

Ninety-Seven *vs.* Ninety-Eight . . . . . 10-0

## Cane Rush.

Ninety-Seven . . . . .	22 hands.
Ninety-Eight . . . . .	9 hands.



MARA.	SMITH.	SPRINGER.	EMERY.	HALL.	SNELLING.	ULMER.
WATROUS.	VAN HORNE.	CLIFFORD.	LEMOYNE.	FARLEY.	TOBEY.	SHOOK.
			NESBIT.	WOELFEL.		

'93 Football Team.

# '98 Football Eleven.

## Manager.

J. L. MARA.

## Rushers.

P. CLIFFORD } . . . . .	ENDS . . . . .	H. NESBIT.
R. S. TOBEY }		
R. B. VAN HORNE . . . . .	TACKLES . . . . .	H. B. SARGENT.
E. R. SPRINGER . . . . .	GUARDS . . . . .	C. LEMOYNE, Captain.

## Centre.

G. F. ULMER.

## Quarter Back.

J. W. FARLEY.

## Half Backs.

W. C. WATROUS.

J. L. MARA.

## Full Back.

E. C. EMERY.

## Substitutes.

W. M. HALL.

G. SMITH.

J. W. SHOOK.

H. SNELLING.

E. WOELFEL.

## Summary of Games.

Brockton Y. M. C. A. vs. Ninety-Eight . . . . .	24-0
Whitman A. C. vs. Ninety-Eight . . . . .	12-0
South Weymouth vs. Ninety-Eight . . . . .	0-18
Ninety-Seven vs. Ninety-Eight . . . . .	10-0

## Cane Rush.

Ninety-Seven . . . . .	22 hands.
Ninety-Eight . . . . .	9 hands.



#### Ninety-Six.

L. BURNETT	P.
R. S. HOWLAND	C.
M. O. LEIGHTON	1ST B.
S. D. CRANE	2D B.
H. D. RAWSON, Captain	3D B.
G. L. MORRILL	S. S.
E. W. PRINCE	L. F.
R. JOHNSTON	R. F.
R. H. LEWIS	C. F.

#### Ninety-Seven.

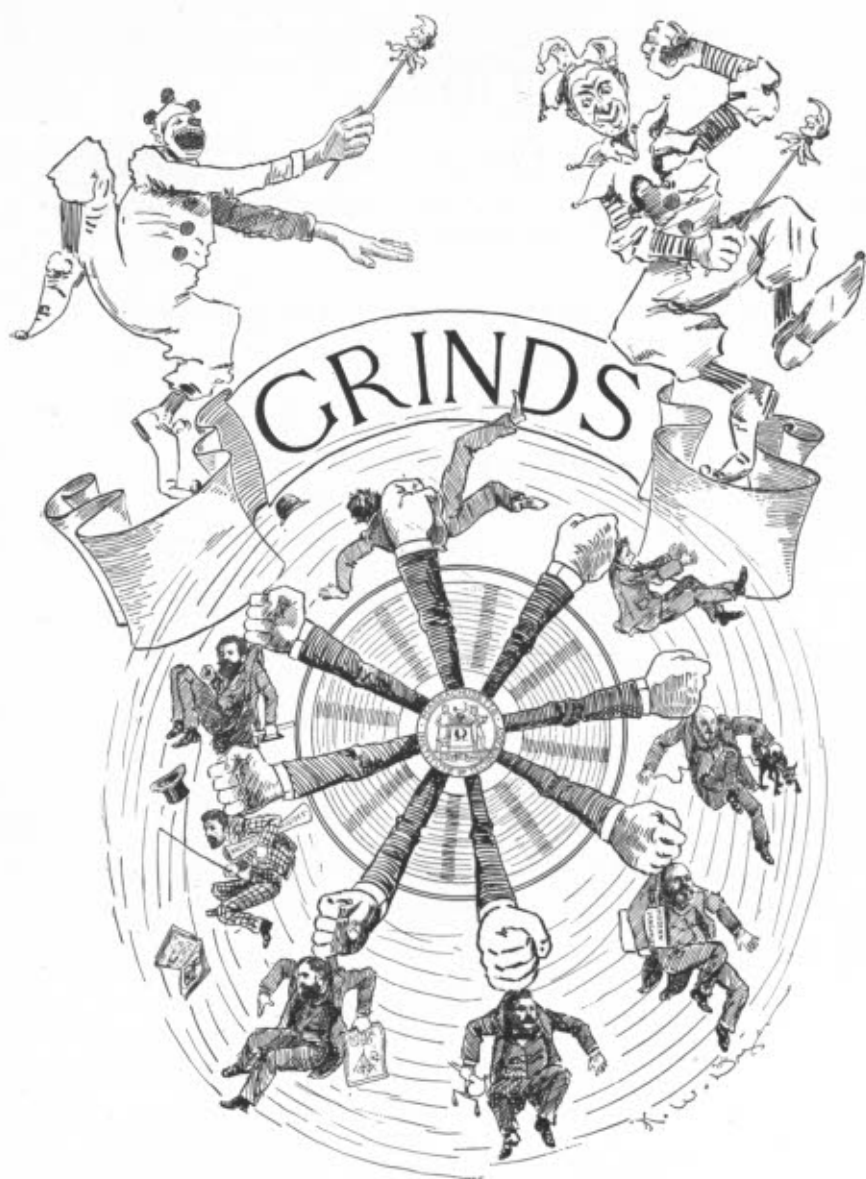
S. W. PUTNAM, JR.
T. R. WEYMOUTH.
L. A. MILLER.
J. P. ILSLEY, JR.
F. V. MCCARTHY.
B. F. HEALEY.
A. C. LAMB.
W. PAGE.
F. E. MANSFIELD.

#### Score.

NINETY-SIX	20	NINETY-SEVEN	4
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#### Other Ninety-Seven Games.

Ninety-Seven vs. English High School	8-16
Ninety-Seven vs. Hopkinson (six innings)	10-9
Ninety-Seven vs. Groton (seven innings)	1-14
Ninety-Seven vs. St. Mark's (seven innings)	8-14





# Grinds.

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FIRST FRESHMAN (opening gym. door suddenly and disclosing the Chauncey Hall Battalion drawn up in line) to second Freshman: "Hurry up, Ned; we're late to drill."

PROFESSOR L-NZ- (Applied Mechanic Lecturer): "This table contains facts." (Three times and out.)

PROFESSOR PORTER (to Class in Hydraulics): "How would you start this problem, Mr. H-we?"

H-WE, '95: "Well, begin by taking your head in feet, etc."

B-RBO-R, '96 (to Photographer): "Can you see my moustache through the camera all right?"

PHOTOGRAPHER: "Am sorry, Mr. B-rbo-r, but this is no microscope."

MR. H-MBL-T: "What is this fence around the drawing for?"

SOPH.: "To keep all bulls off."



MR. WH-TNEY (in American History recitation): "You see, gentlemen, previous traders had come back from the East empty-handed, while Vasco da Gama returned *loaded*, literally *loaded*."

EYN-N, '96 (translating): "Der besucht mich alle Jahre, wenn sie ihre Wolle geschoren haben."

"He visits me every year after he has cut his wool."

R-S-LL, '96, who walking down Boylston Street sees a pretty young lady in upper window, bows, and then mutters, "Would to God my lips were longer."



P-DR- URQU-Z-, says, "I never eat Welsh rarebit, because I do not like game."

Mr. SW-N, '96, translates in a high tenor voice approaching triple C as a limit.

MR. M-Y-R: "Why, Mr. S—, if I could not see you I should think it was a nice little lady translating."



A Cross-hatching Machine.

PROF. V-N DA-LL (to German class, speaking of "Table of German Difficulties"):  
"This table, gentlemen, you will find printed on three sides of a sheet."

SH--FE, '95, asking for a glass rod: "I want three feet of that solid glass tubing."

PROFESSOR P-PE: "We have here a colourless gas — and there is some colour to it, too."

IF failures on earth are successes hereafter, what an iron-bound cinch P-ch-n has in the soft side of Paradise.

"WHERE can I get some iron wire, Dr. W-lk-r?"

DR. W-LK-R: "I'll get you some in the balance room. What in H—l is this? A leak in the roof! That is a d—d bad thing for the balances."

BL-DGETT (in R. R. Signals): "If you see a cow on the track, what would you do?"

C-DD-NGT-N, '95: "Milk her!"

### From Modern History.

They bought a little pamphlet,  
Which tract was termed "Applied,"  
To pay for which they sold their all,  
Then starved themselves and died.



PROF. D-W-Y (feeling in his pocket for some bills): "I don't know whether I've got any money with me or not."

(As class laughs): "Perhaps some of you have?" (Class looks frightened.)

APPL-T-N, '96: "The Irish people of to-day are clandestine, aren't they?"

DR. D-W-Y: "I do not quite comprehend your meaning."

APPL-T-N: "I mean that the Irish people still live in *claus*, don't they?"



FR-NK · B · RD · M · ST · RS ·



Ornithological.

MR. BERNARD: "Mr. M-s-n, go to ze board. Now, zis will take a good deal of common sense; it is something you have never had."



"Where you can procure bridge trusses by the yard,  
bag, stick or bunch."—L-n-.

MR. M-RR-CK (calling roll in Carpentry): "Here is a name that I cannot pronounce —:"

SPANIARD WITH LONG NAME: "Here!"



H-PG-D, '96, (translating): "'Ich esse mit Ihnen' sagte das Fraulein, und fasste zwei Beeren."

"'I will eat with you,' said the girl, and took two beers."

## A Question for Mech. Drawing.

WHAT kind of a figure would Linus cut if he were revolved into H—?


WE understand that the Seniors have come to the conclusion that Prof. L-nz's walk is a pure and simple case of "Short Strut."

<b>LYCEUM THEATRE</b> Washington Street, near Boylston.		 Matinee, October 24. Retain This Check.	<b>LYCEUM THEATRE</b> <b>PARQUET</b>	Good for any Vacant Seat in <b>PARQUET</b>
<b>THURSDAY MATINEE, OCTOBER 25.</b>				
	<b>PARQUET</b>			
	ADMIT ONE.			
	GOOD FOR THIS DATE ONLY.			

Cause of the suspicious popularity of "The Tech"  
during October, 1894.

## Modern Humor.

THE Board takes pleasure in adding the following specimens to the collection of modern humor which succeeding boards have gathered. For numbers 1 to 461 inclusive, see previous TECHNIQUES. Nos. 462-472 inclusive were unfit for publication.

- No. 473.\* PROF. CR-SS: "In this wave-motion apparatus, gentlemen, you will observe  that the little cranks in front are operated by a larger crank behind."
- No. 474. PROF. CR-SS: "The Law of Motion is illustrated by a body falling from a balloon,—a *bottle*, for example—it is usually a bottle in such cases."
- No. 475. PROF. CR-SS: "If a man jumps from a building and is caught in a blanket he is brought to rest *gradually*, but if he strikes the pavement he is brought to rest *suddenly*."
- No. 476. PROF. CR-SS: "Now, gentlemen, as you all know, water and alcohol will mix in all proportions"—(above the din) "of course I mean *clear* alcohol."
- No. 477. PROF. CR-SS: "Now, gentlemen, if you take an ordinary graduate glass, such as this would be, if it were one——"

\*This joke is now a classic. Negotiations are pending for its shipment to the Smithsonian Institute.

SOPH: "Shall I letter in 'what it is' on the top?"

H-MBL-T: "Yes; that's a good name for it."

"IN this regard, no figures have yet been determined by any one, so far as I know, and I have not yet determined any myself."—*Notes on Friction, by Gaet-no L-nza.*

OW-N (translating): "I am no fool." (*Class snickers.*)

PROF. D-PP-LD (interrupting): "That's right."

### In Railroad Signs.

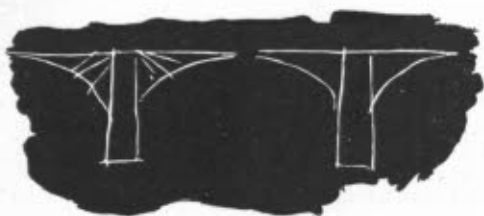
MR. R. SEMAPHORE BL-DG-TT writes formula on the board for up and down grades:

$$d = \frac{v^2 \cos^2 i}{2r} (up)$$

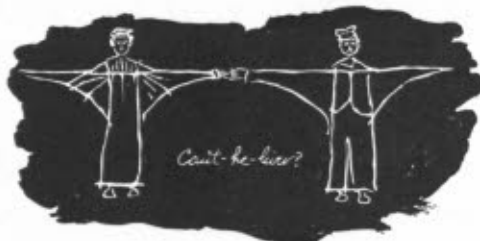
C-NF-LD, '95: "Is that 'up' to be multiplied in?"

INSTRUCTOR: "You follow that, don't you?"

M. W. ALL-N, '96, "Yes." (*sotto voce*) "But then, I have followed many things which I never caught."



PROF. L-NZ-: "Now, I suppose you fellows all understand what a cantilever bridge is. Well" (and making a hurried sketch on the board), "this is a cantilever bridge."



But we understand this is what the janitor was called upon to erase that P. M.

## To my "Double-Elephant".

Oh, elephantine drawing-board, what weary  
hours I've spent

In geometric angles o'er your ample  
surface bent;

With many an eager longing  
for a telescopic neck,  
Or cherub wings to aid me in my  
labors at the Tech



How often you've been shadowed by  
a score of eager men  
All listening to the French-man  
though he spake beyond their  
ken.



While I saw all hope of "mention"  
disappearing from my sight,  
As my pet design was cut up by a "6B"  
black as night.

How hope-  
in the lessly we've floundered  
wind and in the rain,  
When the notice "due tomorrow" drove  
"the Architects" insane.

How I've wished my arm to rival in  
length a chimpanzee's,  
And three at least as extras to  
take my traps with ease



How I've measured off my "modules"  
 "while the little girl in blue"  
 Exchanged with Tommy Tompkins, a  
 "genial how-de-do,"  
 While the old "ducks on the water"  
 "teeter-tottered" such a way  
 "After the ball was over," "tara-ra-  
 boom-de-ay"

Oh, many a dreary day I've spent, struck  
 many a posture strange,  
 And many a time drawn in my  
 sketch, to straightway make a change.  
 And yet perhaps the time will come  
 when I'll long for the ills of today;  
 To flounder again in the rain with you,  
 to cope with the winds from the bay.

And I fervently trust when I pass away,  
 they will place, as a slab at my grave,  
 This same, old, double-elephant-board,  
 and on it straight engrave  
 With Mr. Adam's Roman type  
 a simple "R.I.P."  
 She struggled with this, drawing-board  
 once at the M.I.T.





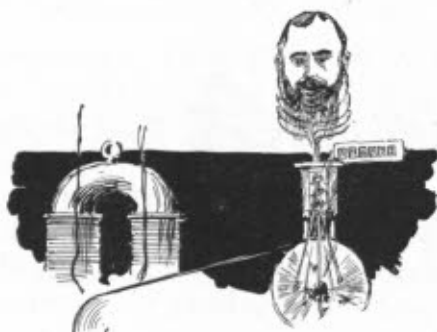
### Ninety-Seven's Idea of Early English and the Renaissance.

"THE Normans were of Greek origin, and had a great effect on language. It is from them that we get the English language of to-day."

"Of course the Renaissance consisted of a rise in Intellect, Artists, and Sculptures, rather than in scientific branches."

"The original language of England was Celtic. Upon this language the Latin Conquest by Napoleon made little effect."

"The primitive language of England at its earliest times was but a mere mixture of words and phrases."



IN view of the hitherto futile efforts to obtain reliable data as to the exact rate of vibration of Prof. C-rr-r's jawbone while lecturing, the Board respectfully submit the above combination of revolution-counter and multiphase dynamo, which they trust may prove useful.

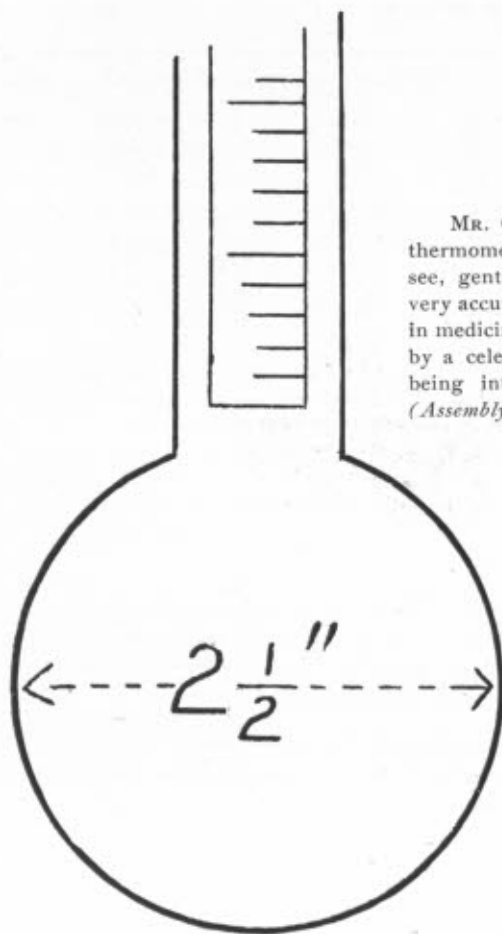
### A Modern Dante.

A certain Harvard Junior,  
On a crimson-bodied car,  
In passing by old Rogers,  
Blessed his ever lucky star  
That he'd survived the semies  
He there once underwent,  
And now, beneath fair Harvard's wing,  
Could rest in sweet content.

Amid his deep devotion,  
On the platform's crowded deck,  
A Freshman comrade questioned,  
"Tell me, are we passing Tech?"  
A smile crept o'er the Junior's face,  
Who once with us did dwell.  
He said, "We are,—that's Tech; and it  
Is my idea of hell!!"

PROFESSOR L-NZ-, to class: "Well, I've got something to tell you fellers. What do you s'pose it is? Can't any of you fellers guess what's revolvin' in my head?"

J. D. J. M--RE (*sotto voce*): "Yes; *wheels*."



MR. CL-FF-RD sketches and dimensions a thermometer rapidly upon the board: "You see, gentlemen, these thermometers, being very accurate, are peculiarly adapted for use in medicine. One of this form was once used by a celebrated French physician, the bulb being introduced into the lady's mouth." (*Assembly looks a trifle astonished.*)

To the Phys. Lab.

If genius is, as men have said,  
The infinite capacity  
For taking pains, then we feel sure,  
With no risk to veracity,  
The gentlemen who have in charge  
The Phys. Lab. of Technology,  
Are geniuses of highest rank,  
Whose fame stands for eternity.

L'ENVOI.

The only trouble with them is  
(And that's why we're so blue),  
That they not only take great pains,  
But give us great pains, too.

## The Technique Annual Prize Award.

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HE editors of this book have long thought that a proper application of a suitable prize system would do much toward stimulating scholarly effort among Technology men. To this end they have out of their own pockets donated a munificent sum, from the income of which prizes are to be yearly awarded. They have given to each of these prizes names of those who may be relied upon to add further contributions to a fund which so fittingly perpetuates their fame. Some difficulty was experienced in determining the award, but the editors trust that the following will prove a satisfactory, as well as a wise, adjudication :—

**SPLANZA MEDAL**—value \$000.01 $\frac{3}{4}$ . Made of solid kiln-dried spruce lumber, modulus 3,000, and plated with heavy rolled steel tacks,—for excellence in anecdotal relation and self-concatenationary effort.

Awarded unamaniously to G. L-NZ-.

**MARGARET CHENEY PRIZE.** An elegantly bound volume of Smithson's "Art of Cutting."

Awarded as a consolation prize to G. VAN E——.

**CLIFFERNARD ART PRIZE.** From a fund left by the ancestors of C. H. E. Cliffernard, Esq., to be awarded annually to the most proficient exponents of decoration in red, especially as applied to town-painting. Awarded without a murmur to F-RST-R, '96, and L-WS-N, '96.

**CHRISTIAN UNION PRIZE** of seven Oxford Teacher's Bibles.

All seven tumultuously awarded to BILLY L-ARY, '96, who attended chapel twice every day during Lent.

**ALBERTEM AWARD.** This prize consists of two books, "Art of Making Mistakes," and "A Treatise on Sleep; or How to Avoid Wakefulness." The recipient of these prizes does not need the books, but he was awarded them merely as a tribute to his proficiency in the subjects there expounded.

This award bestowed by the editors on THE BURSAR.

**THE LAST PRIZE** is one of five dollars, to be expended in a "Manual of Common Decency, and the Fundamental Principles of Politeness." This sum is ungrudgingly awarded to an inmate of the Engineering Lab., known as C. A. R--D.



May Knew.

Beans au Rhum.

Stewed Kidneys Delmonico.

Baked Hash Sauté.

Kerosened Eggs Milanaise.

Boiled Truffles au Gratin.

Fish-Hash au Bon(e).

Potatoes.

Hot—Cold—Otherwise.

Asparagus.

Turnip squashed.

Canned Peanuts.

Chicken Pot-pie, à la Marengo.

Indian Pudding, Bearnaise.

Game.

Penny-Ante.

M-s-n, '97.

Caged Bird.

Dessert.

Chocolate Pie (all out).

Saharah.

Apple Dump, '98 Sauce.\*

Wines.

Blue Label.

Coffee Cocktail Duchesse.

Vin Aigre.

Chassez out.

Sans payer.

Le Guillaume.

\* Guaranteed free from wine or other spirituous liquors.

# Kappa Beta Phi.

Honorary Society.

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## DELTA PHI CHAPTER.

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Unquestioned popularity and long residence at Technology are among the requisites for membership.

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### Founders.\*

E. M-NK.

J. S. P-CH-N.

### Illustrious Members.

J. D. JOSEPHINE M-R-.

G. P. FITZHUGH L-WS-N.

H. D. TRELAWNEY J-CKS-N.

S. W. CARMICHAEL SW-FT.

J. S. FAUNTLEROY N-RTH-P.

### Recently Ejected Brethren.

F. WIGGLETTY L-RD.

H. MOUSTACHE CH-S-.

E. LINKERETTE ANDR-WS.

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\* Close observation will disclose halos above the names of these individuals.

### The Electric Dog.

Once into a morning lecture,  
Where they taught of volts and ohms,  
Mid the gay and foolish students,  
Sir Canine for pleasure roams.  
On some paper, white and spotless,  
Carefully a Junior drew,  
"I am a Ninety-Seven's canine;  
Now, pray tell whose dog are you?"  
Round his neck they tied this label,  
To the desk they raise his form,  
While remarks, and chalk, and laughter  
Rain around him like a storm.  
Poor, sad beastie wanders slowly  
'Mid the storm of verbal hail;  
Then, as one with courage failing,  
Sinks at last upon his tail.

Now we hear a step familiar,  
Which the company beguiles;  
As he meets this timid creature  
Smiles and frowns, then frowns and smiles.  
For an instant stands he silent,  
Then he glides unto the door:  
"Gentlemen, I shall not meet you;"  
And the lecture, then, is o'er.  
This doth prove that no addition  
Can be had without some loss;  
On the desk we had a mongrel,  
But *behind* we had no ✚



The Electric Cross.



C. B-RN-RD: "Avez vous des enfants?"

FRESHMAN: "Non, monsieur!"

C. B-RN-RD: "Pas encore?"

### Never to Go Again.

In Rogers Hall, where wit doth soar,  
And laughter ever fills the place,  
Who could, like Rogers time-worn clock,  
Maintain a never changing face?

## A Lucid Term in Valve Gears.



Reducing the Slip.

PROF. F--NCE (to student whom he has caught mimicking him): "Mr. L—, if you don't stop acting like a fool, I'll send you from the class."

### Who is It?

Within the walls of stately Tech,  
At any time from nine till four,  
Appears beneath thick sable locks  
Six feet of prof., no less, no more.  
Who is it?

His face is long and thin, and oft  
Assumes a look much to be feared;  
While on the contours of the same  
'Tis trimmed with curly ebon beard.

His wit doth flash no less, in fact,  
Than does the jewel on his hand;  
While students flock, with hungry minds,  
From every climate, every land.

The unsuspecting Freshman first  
Beneath his smile is pleased to sit,  
To hear of tools for drawing used,  
And see his beetled eyebrows knit.

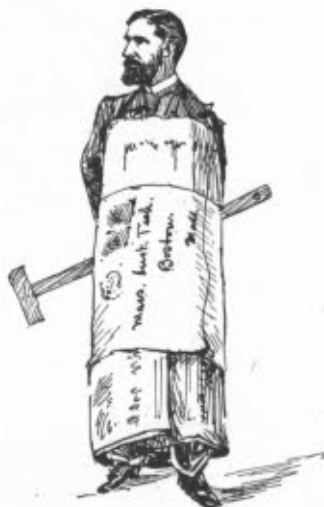
He gives exams. as often as  
He wishes to correct the same,  
And marks with "C" those whom he likes,  
With "F" those of an unloved name.

A prof. whose name is loved and praised  
Where'er the name of Tech resounds;  
Whose pleasure in dispersing flunks  
Is absolute, and knows no bounds.

If any worthy son of Tech  
Knows not which one this prof. may be,  
Just take "descrip," and if in luck,  
In two or three years' time you'll "C"  
Who it is.

DR. V-N DA-LL: "Monsieur Dr-sc-II, les hommes isolées, vivaient-ils sous une menace constante?"

DR-SC-LL: "Oui, oui, monsieur; sous la menace des femmes."



L-N-s F--NC: "Entered at Technology as second-class male matter, September, 1884."

### M. S. J-mes-n's Own.

#### I.

There was a young Junior named Sam,  
Who went into the hot Heat Exam.

He tried to be busy,  
But soon became dizzy,  
And indulged in the epithet——!

#### II.\*

A Course XIII. man—a good student—  
Was struck on a girl named Ella.  
She fainted away—how imprudent!  
But he was "on deck" to "Prop Ellar."

\*This verse narrowly escaped getting the TECHNIQUE's prize for the best piece of poetry.



# An Author and His Works.

(WITHOUT PERMISSION.)

N.Y. Oct 22, 94

Mr. Hugg,

Sir, -  
The Tech is entirely worthless, & I don't intend taking any more copies. I'm filled up with other things we know or don't wish to know. It is a D-D news item paper, the rottenest school paper I ever saw. I thought the base would change, but every issue is alike. I pay \$1.50 for the Greenough, but I won't have any more or pay for any more. I will buy \$1.50 for a book.

E. H. F. quit

Mr. Fuller '96

Editor Tech

Oct 12, 1894.

Dear Sir: - I did not notice the Tech No. 2 coming out & so did not get it. When No. 3 was on sail I feared in confusion never looking to see that the paper received. The reader said nothing. I have No. 3 coupon & No. 3 paper. Now can I get No. 2 paper on that coupon? I have not found the office open, so I write you. Kindly reply through cage.

E. H. F. quit

Find coupon 3, enclosed.

Mr. Allen,

Dear Sir: -

I am an enthusiastic devotee of yachting, although I own no craft. Please let me know the rules & dues of the Hecuba, (Cranthorn P.C.) I think I should like to join.

Very respectfully

E. H. F. quit '98

Cage

Sr.

S. Clarendon  
City.

L--ght-n's Patent Mnemonic System; or, How a Son of  
'96 Jogged His Memory.

THE details of this system were exemplified during the Semies when L--ght-n, not wishing to forget to hand in his Lab. Book, tacked the following notice, boldly sketched in monstrous characters, conspicuously on his door.

NOTICE!  
Take your Lab. Note Book  
Monday  
SHURE.

THE following clipping was taken from one of the great dailies:—



**M. I. T. SNOWED UNDER !**

**Williams Defeats Them by a Greater Score  
than at a Football Game.**

THE PROFESSIONAL PITCHER DID NOT WORK.

The Nine Composed of the Captain's  
Friends in Ninety-Five.

## American History as Seen by a '97 Man.

[Taken from a *bona fide* notebook.]

. . . Has not yet found a suitable text-book (Commission too low). Weakness of confederation. Continental Congress. Several representatives from each State. Shay's Rebellion. Resistance to heavy taxes. Massachusetts succeeded in putting down rebellion. Early union like HCLO (unstable).

Oh for a thousand hands to write  
The words of C-rrier's speech,  
The rapid outpour from his mouth  
Designed our minds to teach!

Watchman, tell us, does the dial  
Toward the noontide hour haste?  
Sufferer, yes, the son of Belial  
Soon the board shall have erased.

U. S. Constitution plumb elegant.

At the quarter mile C-rrier made a break, but recovered the lead, and won the first heat in one minute and fifty seconds. He drew the pole, and started the second heat a prime favorite. Hamilton and Madison write in defense of Constitution. . . .



NOTICE.— Gas meters filled at reasonable rates.

— E. P. M-s-n, '97.

Why, Indeed!

Why need I go to the theater  
To observe the Brownies' tricks?  
I can see all I want of the Brown-ys,  
In the Class of Ninety-Six.



## Manuscripts For Sale.

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AMID the mass of material which the *TECHNIQUE* editors have received, there has been much that is highly meritorious, but which, owing to necessary limitations, has not been suitable for publication. The Board, therefore, offers for sale the following manuscripts:—

DIARY OF A HANDSOME MAN.—By C. P. M-AT, '96.

HOW TO ACT.—By A. W. DR-KE, '95.

PROGRESS OF THE TEMPERANCE CAUSE; OR, TWENTY YEARS PUTTING IT DOWN.—By F. E. FRST-R, '96.

AUTOGRAPHIC SYMBOLISM.—By F. B. M-ST-RS, '95.

WIRE PULLING: THE EXPERIENCES OF AN AMATEUR POLITICIAN.—By J. D. J. M-RE, '95.

HOW I GOT INTO TECH, AND HOW I STAYED THERE. — By J. S. P-CH-N, '92.

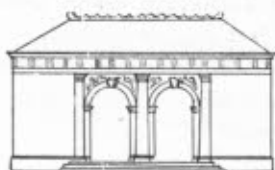
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### A Bird's-Eye View.

From out the natty, gilded cage  
The notes float far upon the air;  
They reach from where the lunch is served  
Quite up to Rogers' farthest stair.  
The feathered songster's tune, when fair,  
Soars heavenward toward the "triple C";  
When parasols are poked at her  
The song is bass as bass can be.  
Confinement hath the heart made sad;  
For freedom seeks the wingèd one,  
And oft we find an empty cage  
While yet the day has but begun.  
For some she pipes a cheerful lay,  
And hastens to perform their will;  
For others she retains her seat,  
And rolls out thunder through her bill.  
This bird is of the carrier type,  
And brings us letters from afar;  
Which may contain a note from home,  
Or, better still, a check from "Pa."  
Although we smile at birdie's chirp,  
We none of us would feel quite right  
If birdie should forsake her nest,  
And spread her wings for final flight.

## Mine or His?

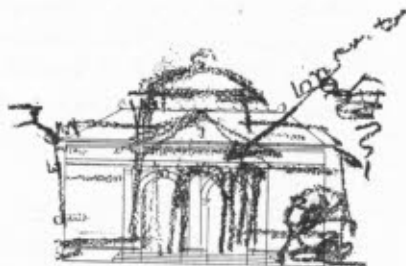
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The problem it was given out  
For "un petit musée,"  
And I began at once my sketch  
Upon that self-same day.

And so with this I started out,  
The Doric Order true:  
To keep the whole quite simply plain  
Was what I tried to do.

But soon Prof. D— came round,  
And when he went away,  
The thing it looked much more like this  
Than my petit musée.



The secret of these hieroglyphs  
I struggled not to miss;  
With pediment and dome attached  
My sketch appeared like this.

And then through changes very great  
My poor sketch had to pass;  
And after many, many woes  
It looked like this, alas!

But not before it had had time  
To grow both fat and lean;  
To first be tall, and then be short,  
And then betwixt and 'tween.



To first be decked with ornament,  
And then be simply plain;  
From Doric to Ionic pass,  
Then Doric back again.

But after twenty sketches, aye!  
And some with shadows cast,  
The Profs decide to let me, now,  
My final start at last.

'T was but a week before 't was due,  
But Profs care not for that;  
They even change the final sketch,  
And make the roof more flat.

"Just raise the dome a little bit,  
And also change the cap;  
Project the central part still more,  
And give the whole more snap."



But now the thing is handed in,  
'Tis certainly *my own*;  
And yet I wonder, as I gaze,  
Where my first sketch has flown.



PROF. H-FM-N: "This piece of tetrahedrite is atrociously rich in silver."

THE TECH  
Engineering, and Mr. L. M. Passano, instructor in Mathematics, were married this summer.

"The Tech," Volume XIV., Number 1.

## These Ads are Free.

WANTED.—By many Seniors. A slight trace of down on our upper lips. Must be had before Commencement.

WANTED.—Before next exams., easy rocking cribs for Freshmen.—*Class of '98.*

WANTED.—Lemonade.—*K. O. S.*

WANTED.—All old cast-off finger rings.—*D-sst-n, '96.*

WANTED.—Bequests.—*Institute.*

WANTED.—Position in light opera.—*Y-ng, '96.*

WANTED.—A Baseball Team.—*Tech.*

FOUND.—A pair of reddish bonnet strings. Though at present in use by the finder, the owner may recover property, after paying charges, upon application to H. N. D-ck-n-s-n.

WANTED.—A compound stronger than salt to put on *M-s-n, '97.*

WANTED.—Less work, more play.—*All of Us.*

AGENTS WANTED.—To sell my last collection of narratives and stories. True accounts of the capture of a fish weighing 6,000 pounds, and similar adventures. Bound in two styles, paper and cloth, gilt edge.—*B-ncr-ft, '97.*

WANTED.—Something to ride in.—*C-rr, '95.*

WANTED.—Man with Trilby feet. Send credentials to manager L'Avenir ballet.

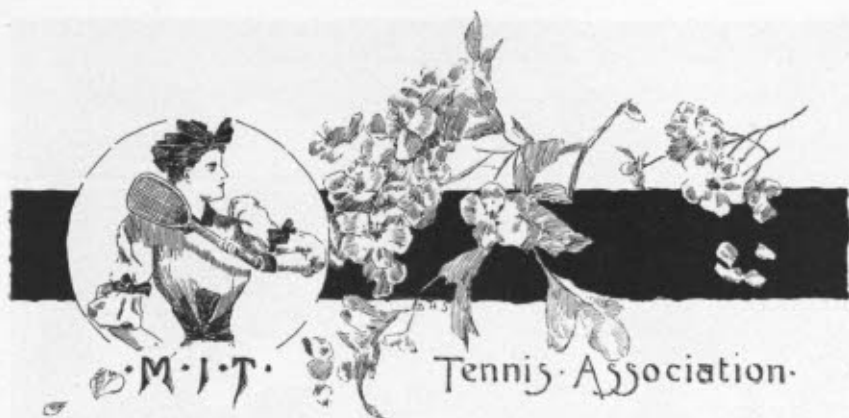
LOST.—All recollections of being on earth.—*Senior Class.*

MISPLACED.—An eyebrow. The loser is very anxious to recover his property, as he has only one other like it left. He suspects that Sc-v-ll has appropriated it as an ornament to his upper lip.

WANTED.—By Junior Architects, a female instructor, whose impartiality must be irreproachable. Must treat the men as well as the present male instructors treat the Co-eds.



We hear that during the present hard times the Technology Alumni Associations have unanimously adopted the above seal.



*President.*

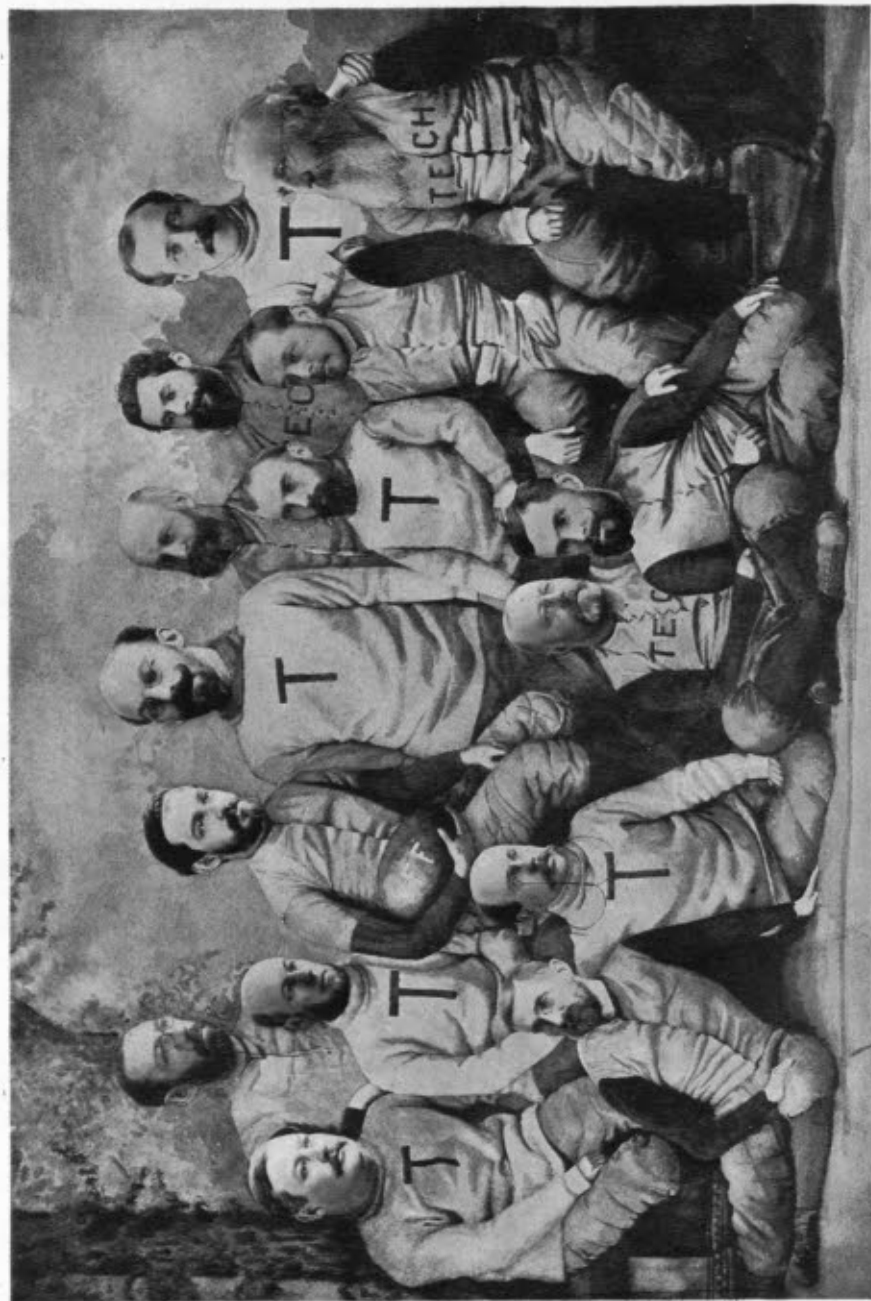
ANDREW DANIEL FULLER.

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*Members.*

NOTE.—After diligent search no other officers or members could be found. Large rewards are now out for information of any one connected with the Association.





P-PR.	I-NZ.	T-L-R.	B-RN-RD.	CH-NDL-R.	D-SFR-D-LLE	AD-MS.
	CH-SS.			C-RR-RR.	W-LLS.	
B-TES.	B-G-LOW.			V-ND-LL.	F-NCE.	R-NR-E.

Faculty Football Team.

# Faculty Football Team.

## Rushers.

"UNCLE LINUS" F-NC- . . . . . ENDS. . . "GETTY" L-NZ-.  
 "NANCY HANKS" C-RR-ER . . . . . TACKLES. . . "FREEHAND CHARLIE" AD-MS.  
 "FRANKY" CH-NDL-R . . . . . GUARDS. . . "ALFY" V-N D-LL.

## Center.

"TOMMY" P-PE.

## Quarter Back.

"CHARLIE" CR-SS.

## Half Backs.

"MEPHISTOPHELES" B-RN-RD.

D. D-SPR-D-LLE.

## Full Back.

H-RRY T-L-R.

## Substitutes.

JOHN R-NKLE.  
 ARLO B-TES.

W-BST-R W-LLS.  
 "BOBBY" B-G-L-W.

## Summary of Games.

FACULTY vs. YALE . . . . .	15-0
FACULTY vs. HARVARD . . . . .	75-0
FACULTY vs. U. OF P. . . . .	18-0

## Faculty, 15; Yale, 0.



THE game of football has sprung into considerable prominence during the last few years, and the Faculty of Technology, anxious to be progressive, showed itself a completely *fin-de-siècle* body by organizing, this past season, an eleven from its members. The men were chosen with great care as to their fitness for the various positions. B-rn-rd was fast, and would make a good back. F-nc-e was a fine end, for no one was ever known to "get around" him. T-l-r was made full back and captain, because, as they said, he was used to "kicking." And "Freehand Charlie," as tackler, was sure to get onto anything in the way of "mass" plays. "Tommy P-pe wanted some one to grant him Avogadro's Law," said "Charlie" Cr-ss to Captain T-l-r; "I've granted it, and he's going to play great football for us."

The Faculty eleven began its brilliant career with a game with Yale on Clover Field. At five minutes past two on the appointed day the team came out upon the field, headed by Harry T-l-r carrying the ball; on which was the Faculty's motto, as shown in the picture.

"Double F, F, L, P, C.

We are the Profs. of the M. I. T.,"

rang out on the frosty air from their husky throats.

Tech took the kick-off. "Tommy" P-pe swatted the ball for thirty yards, and "Uncle Linus" got it on a fumble. Then Tech worked her scientific signals. "I will now impart motion to the ball by means of the crank in front of me," said



Tucking his head under his arm.

"Charlie" Cr-ss, pinching "Tommy" P-pe's leg, and "Mephistopheles" went around left end for seven yards. Then D-spr-d-ll-e, not understanding the quarter-back's French, got rattled, and tucking "Charlie" Cr-ss's head, instead of the ball, under his arm ran down the field for ten yards. Yale kicked on this run, as Charlie had the ball all the time, but the umpire said it was all right. Charlie was a little bit frustrated by this, and by his long football hair getting in his eyes; so when T-l-r fumbled the ball, Charlie picked it up and ran forty yards toward his own goal before "Nancy Hanks" could catch him. "Getty" L-nz- went through the line for thirty yards with a scissor-beam truss wedge, planned especially for this game. "Observe this precipitate fall," remarked "Tommy" P-pe, laying out Yale's center by a neat uppercut, and thus making a hole for T-l-r to go over for a touchdown. W-ls kicked a goal. Score, 6-0.



His Football Hair.

Yale kicked off, and got the ball on v-n D-ll's fumble. She tried to go around L-nz-'s end, but he sprung one of his jokes, which broke the interference all up. Yale's half back was heard to say that it was the hardest thing he ever struck. Yale fumbled, and Linus grabbed the ball and started down the field with it. It was a fine sight to see the "gentle and lovable" F-nce, his sweet and genial face flushed with excitement, while the air trembled with the loving and admiring shouts of the Tech men. He carried the pigskin across for a touchdown just as time was called. No goal. Score, 10-0.

In the second half Yale kicked off. Harry T-l-r had his leg stretched so badly that he had to retire, saying, as he was carried off the field, that it was the first time it had ever happened to him. B-tes took his place. "No great loss without some small gain," murmured Arlo, as he punted the ball ninety-five yards down the field. In the next rush "Getty" L-nz- sustained a severe shearing stress in his ankle, but kept on playing. Yale's full back was severely injured by running against "Freehand Charlie's" chin, but the Yale men got their revenge by tackling "Mephistopheles" by the beard. Seeing that C-rr-er had partially stupefied his opponent by repeating to him a few volumes of the Encyclopædia Britannica, at the rate of two volumes per minute, Arlo B-tes went through for a good gain. "Charlie" Cr-ss made fifteen yards on a criss-cross (originally named for him). At this point Linus lost his hair in a center play; but as he had often done so before it caused him no inconvenience. Tech slowly pushed Yale down the field, and at last Arlo made a goal from the field. Score, 15-0.



The Wedge.

During the rest of the game the ball vibrated back and forth over the field (see Physics notes for vibration formula, \$1.00, Ridler's). "Play better, boys, or you'll make 'Charlie' cross," said Arlo; but all they could do was to hold their own. Time was called with the ball on Yale's thirty-yard line.

The team play of the Faculty was very good. The game was free from brutality, although some thought that the Professors jumped on men when they were down. Altogether the affair was a pleasing proof of the energy and versatility of our beloved Faculty.

# QUOTATIONS



# Quotations.

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"Faith, I'll home to-morrow."—*After six double flunks.*

"They laugh that win."—*Bets on Yale.*

"And bring you forth music into the air."—*Glee and Banjo Clubs.*

"Exceeding wise, fair spoken, and persuading."—*H. E. Cl-f-rd.*

"A proper man as one shall see in a summer's day."—*Prof. M-r-r-ll.*

"I dare do all that may become a man;  
Who dares do more is none."—*R-w-s-n, '96.*



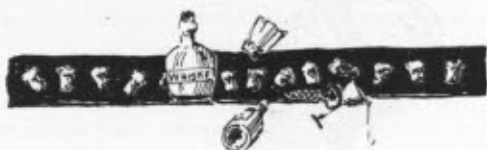
"A rhapsody of words."—*Lecture on Heat and Vent.*

"As proper a man as ever trod upon neat's leather."—*Prof. B-r-t-n.*

"Of all the bores I ever met,  
He maketh me most sad  
Who relates his petty vices,  
To make me think he's bad."—*K-tzschm-r, '95.*



"Who riseth from a feast with that keen appetite that he  
sits down with?"—*M. L. F-ll-r, '96.*



... "But Satan had a chapel there."—*The Brunswick Exchange.*

"Of all men else, I have avoided thee."—*The Bursar.*

"Not to know me argues yourself unknown.  
The lowest of your throng."—*The Secretary.*

"Plays such fantastic tricks before high heaven  
As make the angels weep."—*Class of '97.*

"Where none admire, 'tis useless to excel;  
Where none are beaux, 'tis vain to be a belle."—*Consolation for our Co-eds*

"Ah, tell them they are men!"—*Ninety-Eight.*



"Was ever book containing such vile matter  
So fairly bound?"—*Faunce's Descriptive Geometry.*



"The world knows nothing of its great men."  
— *M. H. McGinn*, '96.

"It is a custom more honour'd in the breach than the observance."—*Term Bills due October 15th.*

"Full well they laughed with counterfeited glee  
At all his jokes, for many a joke had he."—*L-nz.*

"I am not in the roll of common men."—*Special Student*

"Mocking the air with colors idly spread."—*'98 at Cane Rush.*

"Vexing the dull ear of a drowsy man."—*Descrip. Lecture.*



"What a falling off was there."—*At the Cane Rush.*

"How did they fume, and stamp, and roar!"—*Senior Class in Applied Mechanics.*

... "When he appear'd  
A secret pleasure gladdened all that saw him."—*President Walker.*

"The insane root  
That takes the reason prisoner."

$$\sqrt[n]{-q \mp \sqrt{\frac{8}{3}\pi}} \cdot \int_0^{\infty} x^{\frac{p-q}{2}} \sec^n x \, dx$$

"These two hated with a hate  
Found only on the stage."—*Mr. C. F-nce and B-rk-r, '96.*

"A thing of beauty is a joy forever."—*Tech Mascot.*



"I would thou and I knew where a commodity of good names were to be bought."—*K-tzschm-r*, '95; *P-dro Urq-iza y Bea*, '96.

. . . "So we grew together,  
Like to a double cherry, seeming parted."—*H-dge Brothers*, '96.

"The bearded lady."—*H-rr-ng-t-n*, '96.

"The cock often crows without a victory."—*Rh-des*, '96.

"This is no place for thee."—*P-ch-n*, '94, '95, '96, '97.

"The glass of fashion and the mould of form;  
The observed of all observers."—*Which Co-ed.*?



"Robinson Crusoe and his man Friday,"—*N-rm-n and R-b-n-s-n, Janitors in Ordinary*.

"Ye diners out from whom we guard our spoons."—*Parker House to M. I. T. Classes*.

"As the French say, there are three sexes: men, women, and—Co-eds."

"Hell grew darker at their frown."—*The Faculty*.

"Whence and what art thou, execrable shape?"—*The Tabular View*.

"The world knows only two—that's Rome and I."—*H-rr- T-l-r*.

"My cake is dough."—*Tech man at Priest's*.

"None but himself can be his equal."—*R-t*, '96.

"Is she not passing fair?"—*The Office Assistant*.

"A man, he seems, of cheerful yesterdays  
And confident to-morrows."—*Prof. van D-ll*.

"I have an exposition of sleep come upon me."—*N-rth-p*, '96, in *Physics*.

"Does not divide the Sunday from the week."—*The "Sport"*.

"Petition me no petitions."—*H. W. T-ler*.

"Vain wisdom all, and false philosophy."—*Soph's opinion of Physics*.

"I have a posie of other men's flowers, and nothing but the thread that binds them is mine own."—*N-les's notes.*

"Claret is the liquor for boys, port for men; but he who aspires to be a hero must drink brandy."—*Brothers B-rn-rd.*



"Mere engines made by geometry."—*Peabodynamics.*

"So sweet and voluble is his discourse."—*Prof. C-r-r-er.*

"This hour is mine: if for the next I care,  
I grow too wide."—*Prof. P-b-dy.*



"In indolent vacuity of thought."—*The Lounger.*

"He has more goodness in his little finger than you have in your whole body."—*Prof. S-dgw-ck.*

"He trudged along, unknowing what he sought,  
And whistled as he went for want of thought."—*F. H. Sm-th.*

"Ill news is wing'd with fate, and flies apace."—*Semiannual Reports.*

"My tongue within my lips I rein;  
For who talks much must talk in vain."—*Linus.*

"Doth make the night joint laborer with the day."—*The "Grind."*

"In maiden meditation, fancy free."—*Prominent Co-ed.*

"The chest contrived a double debt to pay,—  
A bed by night, a chest of drawers by day."—*Tech man's folding bed.*

"We know what we are, but know not what we may be."—'96 *Regulars*.

"They naked went, or clad in under hide."—*At the Gym*.

"I would outstare the sternest eyes that look."—*H. C*——, '96.

"A kinder gentleman treads not the earth."—*Prof. R-nkle*.

"Knowledge is proud that he hath learn'd so much;  
Wisdom is humble that he knows no more."—*P-ch-n*, '94.

"How use doth breed a habit in a man."—*Prof. P-pe*.



"I love its giddy gurgle,  
I love its fluent flow;  
I love to wind my mouth up,  
I love to hear it go."—*E. F. B-dg-r*, '95.

"An abridgment of all that was pleasant in man."—*Prof. S-dgw-ck*.

"The noblest mind he carries  
That ever govern'd man."—*Prof. B-rt-n*.

"Speaks three or four languages, word for word, without a book."—*Dr. D-pp-l-d*.

"I am so fresh that the grass turns pale with envy as I pass."—*G-rdner*, '98.

"Not pretty, but massive."—*M-n-h-n*, '96.

"I counted two and seventy stenchies,  
All well defined."—*Laboratory*.

"Ferdinand Mendez Pinto was but a type of thee, thou liar of the first magnitude."  
—"Tech" *Reporter*.



"All honorable men."—*Class of '96 and the Faculty*.

"I can easier teach twenty what were good to be done, than be one of the twenty to follow mine own teaching."—*L-n-s F-nc-*.



"Believe me, you are marvelously changed."—*H. N. D-ck-us-n.*

"Ye Gods! how she doth fly off!"—*The Bird.*

"Stiff in opinions, always in the wrong,  
Was everything by starts and nothing long."—*W-s-n, '95.*

"Your great admirers are mostly silly fellows."—*J. D. J. M--r-*.

"Nay, then, 'tis time to stir him from his trance.  
I pray, awake, sir."—*S. C-b-t, '96.*

"I am Sir Oracle,  
And when I ope my lips, let no dog bark."—*Ch-rl-e Cr-ss.*

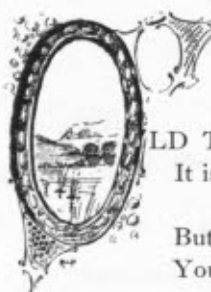
"When twenty throats together squall,  
It may be termed a madrigal."—*Glee Club.*

"He that dies pays all debts."—*The Bursar's Hope.*



"When I said I would die a bachelor, I did not think I should live till I were married."—*Mr. P-ss-no.*



 In the Year 2000 A. D.  
LD TECH is a place of great renown,  
It is steeped in fame from the roof to the ground,  
In Boston town by the sea ;  
But it's not perfection, for by inspection  
You'll see the faults that need correction,  
Ere the year 2000 A. D.

There's many a thing about the place  
That's hard on a fellow in any case,  
By the Faculty's wise decree ;  
But they'll give up the right, as I think they might,  
Of keeping us grinding ten hours per night,  
By the year 2000 A. D.

Oh, the clock will be running in Rogers' Hall,  
And the Bursar will know us, one and all,  
When he cashes our checks for a "V" ;  
The first-year slews will have tabular views,  
Whereby they may find out something of use,  
In the year 2000 A. D.

We'll be given some chance to prepare for exams.,  
And they won't mark a fellow on how hard he crams ;  
What a jollification there'll be !  
We'll get H's again, and C's just the same,  
But from F's we'll always contrive to refrain,  
In the year 2000 A. D.

There'll be "lifts" in all buildings to save us the climb,  
Lecture-room doors won't be locked just on time,  
Work will be over at three.  
As for text-books and tools, we'll depart from old rules,  
By buying them cheap. Oh! we'll cease to be fools  
Ere the year 2000 A. D.

"Thermo" and "Heat" and "Polarized Light,"  
And "Applied" and "Least Squares" will seem "out o'sight"  
At the time which I plainly foresee.  
The Freshmen may drill—or not, as they will;  
"Descript" will be crossed right off of the bill  
In the year 2000 A. D.

We'll be found at all "first nights," each fashionable ball,  
But we'll get our diplomas in spite of it all,  
And find ourselves titled S. B.  
So when cares cast you down, and the world seems to frown,  
Just think how your children will polish the town  
In the year 2000 — A. D.!

M. S. J., '96.

### Her Choice.

---

I do not like the Freshman,  
For a man too fresh is he;  
I care not for the Soph'more,  
Whose conceit is plain to see.  
I cannot love the Senior,  
Though so near to his degree;  
But I love the jolly Junior,—  
Yes, he's the man for me.

## Technology Nursery Rhymes.

---



ING a song of Honors, a pocket full of C's,  
All the other good things to which you'd like to freeze.  
When you try to get them, you are always sure to find  
The only man who has a chance is some confounded grind.

Pussy-cat, pussy-cat, where have you been?  
I've been to "Reddy's," and lost all my tin.  
Pussy-cat, pussy-cat, what saw you there?  
A Senior with three of a kind and a pair.

Ding dong bell! old uniforms to sell!  
Who'll keep them still? The Sophomores will.  
Who spoiled their plan? Bigelow was the man.

[SLOWLY.]

What a pack of lies they told, to sell those garments old!

There was a man from our town, he ne'er was wondrous wise,  
Who "needed thorough rest from work;" "had trouble with his eyes."  
And through each short vacation now he grinds, with might and main,  
To make up all conditions, and to get a start again.

Hey diddle diddle, my Math.'s all a riddle,  
I shall flunk my Chemistry soon.  
The Freshmen may laugh who are in their first half,  
But they'll dance to the very same tune.

## The Brook and the Joyous Life.

---

Rippling waters sparkling bright,  
Making music day and night ;  
Laughing brooklet ever sings,  
Joy and gladness always brings.

Uncomplaining, nor disdaining  
Rocks that rise upon its way ;  
Running over or around them,  
Full of life the livelong day.



Murmuring softly, it speaks to me  
On its way down to the sea :  
Thy life should sparkle and be bright,  
For life that's true is full of light.

Joyous life is the spring of truth  
That flows in a stream of purity ;  
Refreshing souls when time has flown  
Down to the sea of eternity.

G. H. W. '98.





## Science.

---



OW beneath the swampy grass  
Deep within a dark morass,  
There glows a dainty blossom like a tiny fairy lamp;  
Fresh and fragrant is its breath,  
Tho' all about is shaded death.  
That tender little flower well repays a toilsome tramp.  
Under the very sun of day  
God has hid, in the self-same way,  
Truths of wondrous structure—sweet and delicate, yet strong;  
Oh, heedless man, you look too high  
The marvelous little plant to spy!  
Life for it is humble, and it thriveth best mid wrong.

R. B. P., '94.

## Explained.

---

I often wondered at the wit  
Which by a certain "prof." was used,  
Who bright remarks was won't to flaunt,  
And thus himself, alone, amused.  
A book of quotations one evening I read,  
And found there all bright things he ever had said.

## Astronomical.

---

I ne'er quite could see how the planets all soared  
In their orbits about the great sun,  
And how they could tell when they'd finished their course,  
If they'd reached the place where they'd begun,  
Until a fair daughter once smiled as she passed,  
And her eyes set my brain in wild whirls;  
It was then that I saw how the planets must feel  
If the sun were as bright as these girls.

THE COURSES





## Course I. -- Civil Engineering.



COURSE I. is first. Head of the list,—alpha, not omega; beginning, not end; honored by all at all times, and notable for the mighty minds of Technology who seriously considered entering it, but who changed their plans.

A canvass of Courses II. to XIII. shows that Course I. is composed of men who are not smart enough to get into any other Course. A canvass of Course I. shows that it has all the men who are smart enough to get into it. But whichever

theory is true, Course I. has very nearly done several noteworthy things. It almost organized a football team, came within one of having a baseball team, and tried to get a man on *TECHNIQUE*'s editorial staff. It has made a complete topographical survey of a section of country, and plotted the same on paper, producing a variety of maps bearing no very marked resemblance to one another.

At the beginning of the Sophomore year we stretched our wings in delightful freedom, shook ourselves off from all restraints, and flew to the lofty heights of Engineering. We



Heavenly.

might call Course I. and Course IV., though somewhat unlike, "The Heavenly Twins." I speak for one of the twins, and say he would find less objection to his home in the skies had he not to fly up and down so often.

We almost felt like Freshmen once more at the beginning of this second year. On the Boston Common, under the scornful frown of the instructor, we measured a straight line. In the Boston and Albany freight yards, neat little notebooks and pencils in our hands and transits on our



One of the  
Pretty Girls.

shoulders, we skipped gayly about among rocks, briars, and thistles, endeavoring not to smash the transit, as it is considered bad form to do so. We surveyed the Boston travelers on the Common and the Back Bay, and set our telescopes on all the pretty girls. In the warmer weather we piled into the train and rode to Clarendon Hills, where we had the freedom of a beautiful country and fine fresh air, but rather too much work. We also experienced the delights of a day at Military Topography. Ah, that great day—when, according to the directions in the field book, we arose at five o'clock and took

a train to near where we wanted to get off, and walked the rest of the way, when we struggled through the tangled swamps along the Charles River trying to find a good bathing place. And what excellent notes we afterwards made,—only to see them carried off by our late Professor of Military Science, to be exhibited as horrible examples of what happens to students who jest at honorable scars. We hope the professor's successor will realize the advantage of exercises in Military Topography as a health restorer, and act accordingly.

We feel that if some humorous genius would copyright a good set of new jokes for professors' use, warrant them to wear, and prosecute infringement, a good deal of sunshine which is now shut out might be admitted to our souls. We feel that we need protection from the strain of having to laugh at jokes whose exact position has been pointed out to us by the classmen of more advanced years. Students and professors of Course I. have spent much time in the obviation of this difficulty by making their own jokes; but feeling the futility of any amateur effort, all have waited in suppressed anxiety and with beating hearts for TECHNIQUE.



Setting our Telescopes.



## Course II.--Mechanical Engineering.



**A**FTER having solved that Chinese puzzle, the Tabular View, the reaction sets in, and I dream of the comparative snaps of the past.

The first year we hardly knew what we were. The lectures in General Chemistry were a perpetual delight, though the reactions produced frequently seemed somewhat precipitate in their action, notwithstanding we were warned that they would occur "immijately."

Military drill occupied some of our time, and we have the honor of being the first class to adopt the present discarded uniform. One day I saw a would-be soldier taking the setting-up exercise, his hands raised high above his head. I also saw his necktie beneath the bottom of his blouse; but this was probably owing to the clumsy work of his tailor. I might add, also, that a large and extremely useful portion of the instruction in military science was carried on in Huntington Hall.

But it was not until the second year that we began to experience the delights of life. Descrip. now claimed our attention, and the class did very well in this, fully fifty per cent having passed. But there were other things. Drawing teeth was a pleasant and painless operation. Machine drawing deserves to be especially mentioned for the wonderful results which were obtained. One individual was able to so dimension his

machinery that he could put an inch shaft into a seven-eighths hole. Dimensions were chosen by vote, as usual, and titles were always put on, so that the instructor might know for what the drawing was intended.

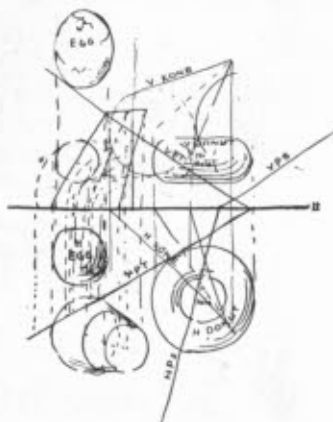
Physics we found to be rather a light subject. The lecturer seemed to take a peculiar delight in calling for questions on the previous lecture.

In the carpenter shop many were the useful articles we made. One conscientious carpenter worked according to the rule that if he could not drop a cent through the joint between two adjacent pieces, his work was all right. We all used glue — sometimes to excess. One day a careless dabster painted the top of the table. When J. H. sat down on it, in a chronic(?) fit of weariness, he remarked that he was stuck on that job to such an extent that he found it hard to tear himself away from it.

During the first few lessons in the forge shop the principal work was making smoke and raising blisters, while the iron frequently showed a wonderful facility for getting hot where it should have been cold. The speed with which a man drops a piece of hot iron which he has inadvertently picked up is something terrific, and has never yet been calculated.

Taken all in all, Course II. is a most desirable one, combining, as it does, many pleasurable features with the necessary hard work.

P. S. The writer desires to call attention to the fact that the mule has been left in undisturbed repose. He also hopes that his somewhat disjointed remarks on Course II. are not II. Course.



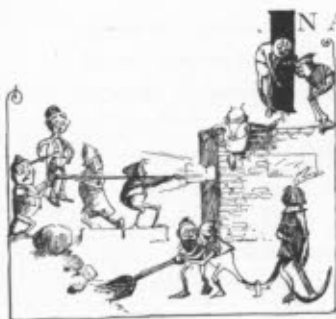
Descrip.



What Course II. is looking for.



### Course III. -- Mining Engineering.



IN ACCORDANCE with custom, there assembled in September, 1892, a number of young men who signified their intention of allying themselves to Course III. for the ensuing four years. After having located the lunch room, the "chapel," and sundry other bench marks, and having disbursed many shekels among the tradesmen for books, instruments, and supplies, they commenced to work upward. Up in Mechanical drawing one of their number took the leading part in that thrilling melodrama entitled, "How They Foiled Linus; or, the Mystery of the Fire Escape." In free-hand drawing they practiced the art of making letters and drawing perspectives. Chemistry taught them the science of making precipitates, of twisting tubes, and of breaking beakers, as well as of meeting Mrs. Stinson, whom everybody loves, and who has known Course III. from its infancy. Mathematical puzzles and fairy tales in foreign languages occupied the remainder of their time of this year, with the exception of the three hours per week devoted to military drill, unless, perchance, some welcome kidney disease or chronic toothache excused them from attendance.

Assembling again in '93 as Sophomores, they found themselves entering upon the professional work of Course III. To be sure, their mathematical puzzles and language tales continued, with slight modifications, though at

the same time a certain one of them managed to learn that borax is not a good substitute for bone ash in making cupels, on account of its swelling properties. In surveying, an inquisitive member of the party was informed, after due inquiry, that the compass circle of the transit has three hundred and sixty degrees, just like any other fully developed circle. Physics gave them an explanation of the intrinsic brilliancy of walking gaslights often seen in the early hours of the morning. The wet and dry theories of the earth's area in the time of Columbus, together with the probability of the Irish being the first discoverers of America, were ably discussed in American History by Professor Fiske, while Professor Arlo Bates' lectures in English were a recreation never to be missed. Thus ended their second year. But it happened that Course III. had a younger brother, known as Summer School, and several of the chosen accompanied him on a five weeks' expedition into the land of the Bluenoses, and there met with divers adventures, too lengthy to be related here.



Walking Gaslights.

This year finds them back again as Juniors, and here we must leave them, trusting that all have withstood the overpowering action of Heat.



"Wet and Dry Theories."





## Course IV. -- Architecture.

### CHAPTER I.



HERE'S Rob; gone home?" "No; downstairs, talk to Willie about blue prints, shades and shadows, and perspective." By the way, our instructor in shades and shadows is a regular Pinkerton. In shadowing he has no peer outside of Chicago.

"Wow-wow!" "Ba! Ba-a-a-a!" "Meow-sic-um!" "Fitz-meow-s-s-s!" "Say, I believe you've got wheels."

You ask what has broken loose? No, not Bar-num's, but '96's menagerie and freak show. The long and the short of it is that "Sacks" are "Cumming," and '96 is going into the sign-painting and general mercantile business. No wonder that the architect is so prosperous when we have such advantages as are offered to us right in our own building. Read these signs which adorn the rooms, and you will see what I mean: "Shoe Department." "Merchant Tailor." "Pawnbroker Mike." "Old Elm." "Good Stout Old Porter." "Gambling Hell." "Talking Machine Here." "Designs Rendered While You Wait." With such an assortment should we not feel proud? And as to being socially elevated by swell(?) societies, don't say a word, but just gaze and wonder: "Schwitzverein." "Saturday Afternoon Club." "The All-Fired Seven." (Consult "Pearly Peaches," '95.) "Colloquium;"

and others too numerous to mention, the chief of which is the "Compass-wheelloseyourpenniesociety," of which "Von" is chief robber.

Who says IV. is not a snap course? We have so much time on our hands that we spend some of it in working on Saturday afternoon. Upon one of these occasions a little mite of a "coon" found his way up into the Senior drawing room, and wishing to amuse the gentlemen who were hard at work began to dance; but there were objections to this in such words as these, "It's outrageous, ungentlemanly!" And still some people are ungenerous enough to say it is not the snap course at Tech.



## CHAPTER II.

Viewed under more favorable circumstances it would have been a cheerful place. But there was no order; everything was thrown about, and the bird on its lonely perch looked down in disgust. Suddenly there came from out the darkness a voice, deep and guttural: "Wasser Maar?" The bird sat bolt upright, and peering through the gloom saw—well, its poor neighbor, the monkey, a most disreputable character without education. "It's outrageous, not gentlemanly!" said the bird. "Thet's so," said the monkey, wondering what the bird meant. "Schwitzverein, indeed," said the bird. "It ain't for me to say anything ag'in' it; but what are you growlin' 'bout?" "Well, it's a long story, but I'll tell it, even if it does cause me pain. These fellers have pennies, and they throw them away. Have dances in here, and disturb the quiet generally, then form a society and put up signs, 'Do not feed the animals.' Well, that wouldn't be so bad, but the fellers downstairs follow suit. Even that could be overlooked; but when that gang upstairs is let loose there is no living. Howbeit, I won't stand it any longer." "P'r'aps you're right,—a gang o' lazy loafers with lyin' round an' tellin' stories." "Well, perhaps that is a little hard, but they might work more and play less." The monkey grunted his assent, the bird flapped its wings, and all was still.



FINIS.

NOTE.—The Board trusts that the above is intelligible to Course IV. men, but the Editors confess their inability to fathom such obscure writing.



## Course V.--Chemistry.



**I**F we were to write a history of Course V., most of that which follows would probably be omitted, for it is of less importance to the public than many other facts which are much better known. But, for this very reason, we now set forth those things which we have hitherto kept secret, in order to let our friends know that we are alive in the fullest sense of the word.

One of the most interesting things we see in the laboratory is a man running a hydrogen generator, with the professor beside him making comments, and suddenly the whole thing blows up, and the blood of the prof. mingles with that of the student. This scene possesses the true elements of low comedy. Speaking of generators, we love also to watch a man put in  $\text{H}_2\text{SO}_3$  instead of  $\text{H}_2\text{SO}_4$ , and then wait patiently for hours for the reaction that never comes. The air is blue around this man for half an hour after he discovers his mistake. Of course this is his own fault; but sometimes it requires a helping hand from some of us to enable a man to make a fool of himself for our benefit. For instance, a man was dissolving a precipitate on a filter with  $\text{HCl}$  from a wash bottle. As he went for a moment to look after something else, a kind friend filled the bottle with water, and then the man wondered that, after using about a gallon of  $\text{HCl}$  (as he thought), the ppt. was no nearer being dissolved than before.

Another man on the other side asked him please to wash his ppt. with  $H_2O$  while he was gone, and upon doing so got a mouthful of  $H_2S$ , which, it might be added, has a highly concentrated and unpopular odor.

Then, too, we have cases of innocence personified. In our analysis of silver coins, one of our number asked where he was to get his coin to analyze, and was told to go to the prof., and ask him for one. This he did, and was met with a chilly frown from that august personage. Our mechanical genius, too, is seen in our amusements, as well as in our work. We do not believe in using our enormous muscles too freely; and so in our ball games in the lab. the ball is thrown by the expansion of  $H$  gas, and returned in the same way.

One of our sorest trials is to be pestered by the persistent questionings of the great number of visitors to the lab. who are utterly ignorant of the first principles of Chemistry,—or, apparently, of anything else. One Course V. man, whose patience had become exhausted, put the following notice on his crucible and left the room:—

"This is a crucible; it is made of platinum. I have borrowed it, and shall return it when through with it. I am fusing chromite in it. Chromite is a compound of the oxides of Cr. and Fe. An oxide is a compound of oxygen and a metal. Anything else you would like to know?"

The profs. are generally very good about answering questions; but we have a vague recollection of one afternoon which the prof. spent in conversation with a certain young lady, while the poor fellows at the other end of the lab. whistled, "One Kiss Before We Part," "Good night, Ladies," "And He Never Came Back,"—but all in vain. We haven't half time to tell all we want to,—of the interesting experiences in the microscopy lab., of the songs sung loudly forth during certain lectures, and of the frightful breaks made in the German class. If any fellow comes to Technology with a mighty ambition, a powerful brain, and a strong sense of humor, let him join glorious old Course V., and he will soon sing with us those touching words so well loved and so often heard in our lab:—

A mother was chasing her boy round the room,—  
Was chasing her boy round the room;  
And while she was chasing her boy round the room,  
She was chasing her boy round the room.

Chorus and next seventy-nine verses same as first verse.



Low Comedy.



## Course VI. - Electrical Engineering.



WHILE a green tinge of freshness was being shed around the first year of our Institute life, hand in hand the different members of our class journeyed together; groping through the thick fumes of the chemical laboratory, stumbling over planes and triangles kindly strewn in our way by "His Worshipful," and playing soldier under the reassuring smile of our sturdy TECHNIQUE supporter.

But the days of swaddling clothes, cribs, and chemistry pills\* soon passed away, and having escaped from the Semies and Annuals with marks (generally "F's") and scars of battle, also with crowns of success, again we appeared with "that Sophomoric trick of wishing to be wicked," one in heart, but with faces turned in thirteen different directions.

When those who had not absorbed all of the wisdom of the ages, and consequently knew not what course to choose, had "dropped by the wayside" or "fallen upon stony ground," the surviving warriors, shielded in the arms of the "half dozen" course, plodded on to explore the mysteries and possibilities of  $S_uC_2E_{ss}$ .

The mysteries are omnipresent and startling, while the possibilities are still lingering in the region of minus infinity, waiting for the button to be pressed, when they shall cross over the line into a region more positive.

\*Take two per week in 35 Walker. If the dose proves insufficient, take same prescription for second year.

What can be more surprising than to see an "equipotential surface," with an "open organ pipe" in his mouth, striding into the physics lecture room to listen to the "Irish" bands?

Or what is more astonishing than to see a full grown "sound wave" prostrated its entire length by the shock of hearing one of our professors say, "If they are not waves then they are something else."

When we began to revel in the mysteries of "Electricity and Magnetism," we could explain all the electrical phenomena, from the effect of electric pills to the construction of an electrical air engine, and also realized for the first time that the advance of an electric car was "obviously" due to the repulsion of the trolley wire and the lines of force about the trolley.

Our course contains a minimum of skeptics. Nevertheless, directly after the cane rush it was very difficult to convince one enthusiast that the "egg" was not the unit of work; and after about five weeks' study he came to the conclusion that electricity is a very solemn subject, and he could not understand why so many people make light of it.

In the drawing room each one's true nature was shown in its best light: there all belonged to the "Sponge Club," which had for its motto, "Never buy what you can borrow, and never borrow what you can steal;" then our musical sirens, especially those of the whistling persuasion, impressed upon us the truth of that worthy quotation, "Heard melodies are sweet (?), but those unheard are sweeter."

Rules and laws were numerous enough to fill a Western statute book; laws in physics, rules in "math," faculty rules, and we even found *Laws* in the "Physical Lab."

When the quieting effects of a physics lecture had disappeared, a group of "English grinds" might be seen repeating quotations from their favorite bard, with an example of which we shall open the switch, leaving in darkness the mirror reflecting the pantomime of the '96 Electricals.

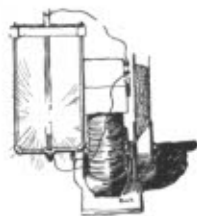
Tell me not, in mournful numbers,  
When my mark is double "F,"  
That 'twas caused by peaceful slumbers,  
And my ears were cold and deaf.

Marks are false, marks are vicious,  
And display but lack of soul;  
For the Profs all try to dish us,  
Lest we reach our longed-for goal.

Let us, then, be up and grinding!  
Never fear what may befall;  
For ere long we shall be finding  
Sheep-skins waiting for us all.



Electrical  
Phenomena.



Making Light of  
Electricity.



## Course VII. - - Biology.



**C**OURSE VII. exemplifies the familiar saying that one is often known by the company he keeps. As it is with persons, so it is with the biologist; he is known by the instruments that are about him. In studying, he goes from what is known to that which is unknown; from that which is seen with the naked eye to that which is unseen.

In order that he may study the unseen, he is introduced during the second term of the first year to the microscope, an instrument which he is to use during the entire course. How this instrument must laugh at seeing a new student. The first time he is taken from his hiding place, the box, and placed on the table before the student, he is gazed at with awe. If he were fire he could be touched with but little less circumspection. To see the student almost jump when he finds that the screws turn, makes him remember past treatment; for he thinks of other students that on first acquaintance have been very good to him, whose kindness has not lasted. But after several hours, he finds the student is more bold. The first fright has worn away. The student insists upon seeing more than he ought or can, so upon all occasions the highest magnifying power is called forth, only to be ordered away by some one with greater experience. Before the second year





is ended he is pleased to find that the student has become sympathetic. The fine adjustment is moved with precision, the lenses are well cared for, and he finds what he thought to be a foe is in reality a friend.

At the beginning of the second year the microscope finds that he has friends who are to share with him the devotions of the student. But he feels confident that the more friends he has the more he will be appreciated. His friends are regular in their visits. Three times they meet each week for work in biology. Often his friend the scalpel tells him how he is used by strangers to sharpen pencils; and that he not only has learned about American history, having attended lectures and recitations, but also knows about English literature. His friend the forceps likes to tell him how many times he had been of service in the laboratory. One day he had been present when arsenic was being tested for, and the generator exploded. Such a commotion as there was in the vicinity for a few minutes was surprising.

During the second term his friends still meet with him in botany and zoölogy. Occasionally he receives a call from the streak stone used in mineralogy. Through this new acquaintance he hears about the pincers, hammer, anvil, blowpipe, and wire used in blowpipe analysis. The forceps never tire of telling him that now, in the chemical laboratory, they have graduated from qualitative to quantitative analysis, and are, consequently, even prouder than they were before.

The circle of his acquaintances keeps growing larger during the third year. In comparative anatomy his old friends remain with him, but several new ones are always present at their meetings. There is less time for conversation from this time on, as the student generally works with more of a will. Sometimes one of his friends would make a journey with the student on a geological excursion, and upon returning would tell of the outside world.

During the fourth year he is of greatest use in bacteriology; in fact, little can be done without him. Many of the health problems are referred to him for solution. He often reveals secrets and unravels mysteries which are for the benefit of mankind. This he not only does during the last year of the course, but continues to do so after the student has gone into broader fields of study, always proving himself the faithful and indispensable companion of that friend of humanity, the Biologist.



His friends still meet him.

NOTE.—The editors of *TECHNIQUE* used their best endeavors to secure an authoritative history of Course VII. Their efforts having proved futile, however, they were obliged to substitute the above entertaining and comprehensive sketch of the vicissitudes of a microscope.





## Course VIII. - - Physics.



**I** ALWAYS have taken Physics — more than I wanted. Even now my tenderest recollections of childhood's happy days bring up thoughts of castor oil, senna tea, sulphur and molasses, and other delectable dainties provided by indulgent parents for my youthful ills. "You must take it; it will do you good" was an admonition dinned into my ears as I stood hesitating whether the jam held by my sister in one hand was worth the pleasure of drinking the nauseating oil in the other.

As time moved on, I found other kinds of "physic" which I was required to take, ostensibly for my good. My father objected to sundry actions of mine, and used physical force as a corrective—for my own good. Later, the dear girl on whom I wasted much sweetness and most of my pocket money preferred a rival, saying "she hoped it would take the conceit out of me." I tried conclusions with the other fellow, and took my physic in the shape of a black eye and generally demoralized physique. I was given "flunks" in examinations because my worthy preceptor judged I needed some incentive to push me forward in my studies; and finally I was sent to Tech for a like reason,—it would do me good.

Naturally, having all my life been used to "physic," I was very much impressed when President Walker solemnly assured the Freshman Class

that the course in "Physics" was very hard to take, but of inestimable value in training the mind to a critical perception of scientific facts; *i. e.*, it will do you good. A few of us, therefore, finding that we should be obliged to take a good dose of Physics anyway, concluded to take sufficient to get whatever virtue there was in it. Occasionally we have exultant feelings (when reports are liberally sprinkled with C's), but more often we fail to see any prospect of our getting a certificate of ability to drive an electric car in Chelsea. Perhaps; who knows?

Among many innocents outside the Institute to whom we have admitted that we were taking a course in Physics, we have found an impression that drug stores and pills were connected therewith. No, dear friends; Physics is that branch of knowledge which deals with natural phenomena, attempts to find the causes therefor, and the mathematical relations, if any, existing between them.\*

Nevertheless, as the long-haired author has concisely expressed it, we are gaining. Our daily talk is now of naught but cosines and versed sines, induction, reduction, and conduction, refraction, diffraction, and other distraction, with more or less of vibration, acceleration, polarization, and considerable damnation.



A Demoralized  
Physique.

\* Whitten's Physics, pp. 116-542, inclusive.

This footnote is inserted at the express request of the author, who has assured us that no student of Physics can get along without this treatise.



Preferred a Rival.



## Course IX. - - General Studies.



**C**COURSE IX. was originally established to satisfy the demands of a large and growing body of students who had vague, ill-defined ideas that mathematics had no place in Course VI., and that Courses V., X., and XI. had altogether too much chemistry. Since those good old days the official designation of this course has gradually become obsolete, till now among the cultured it is known as the hospital course, and as such it has done good service. Many men, worth annually two hundred dollars *per capita* to the Institute, are saved from departing these walls by the providential existence of this special department. In the face of this, who shall say that our Faculty is not farsighted? or that Harry Tyler does not know what he is up to?

The historian, being of a vigorous, strong-minded nature, has thus far steered clear of number nine, and for the following facts about the course he is indebted to one of the feeble and decrepit *habitués* of the library. This latter individual was very glad to talk about the course.

"Anything," said he, "to escape from the fiends who spend their best years in drawing those confounded colored maps, and cross-hatching acres of paper in red and blue."

"Then do the Course IX. men really have to do those kindergarten things?"





## Course X. -- Chemical Engineering.



**W**HAT woke me was a noise of voices in my room. "I tell you it *is* ten." "Well, perhaps you're right." The first voice was sharp, and the second round and full. Sitting up and looking around me, I saw to my amazement that these tones had proceeded from a funnel and a French curve respectively, which were evidently just concluding some discussion, while grouped around were drawing instruments, beakers, books, and in fact almost everything that I had ever used at Tech, the whole scene weirdly illuminated by Bunsen burners giving a greenish-yellow light.

"There, he's awake now," said a thumb tack; "ask him himself." Thereupon every member of this curious collection turned around and looked at me, and the funnel asked, "Aren't you a Course X. man?" "Why, yes," said I; "but why do you want to know?"

"Why," explained my old Analytic Geometry, "we are having a Course X. reunion, and that Frenchman there insisted that you were Course II., because he said he'd seen you in the drawing room often enough."

"Gentlemen, you will please come to order!" shouted a T square, pounding on the table. "If we are to discuss Course X. it would be well, I think, to consider it first from an historical point of view; that is, to begin with the trials (some might call them blessings) of the Freshman." "It

seems to me," remarked a test tube, "that Course X. Freshmen were hardly to be distinguished from the common herd; they were just about as clumsy in the laboratory, and as green everywhere else." "Except," put in a careworn profile plane, all frayed at the edges from use, "except that Linus and I didn't seem to have the usual terrors for them. They used me on every occasion, and now just look at me; they even had courage to beard the lion in his glass house,—that is, on days when he wasn't very fierce."



A Reunion.

"In the Sophomore year, however, they began to show their remarkable qualities," said the drawing board; "then they drew on me for inspiration and"— "I wonder if that was what caused the draught that gave me my cold," facetiously remarked an extinguished Bunsen burner. "Figure draught all through the machine, including colenders and coiler," came from a sliver coiled up on the floor, "and find surface speeds of all rolls, allowing  $\frac{57}{48}$  for slipping of belts wherever used." "You've too much draught there," broke in a combustion tube; "there is no need of running that oxygen so fast, and if you heat that so hot you'll have an explosion here presently." "Yes," said a Nicol prism; "that was what caused the explosion of the corpuscular theory. The speed of light had, according to that, to be greater in glass than in air, and I think you will very readily see"— "You will unless you're color blind," interrupted a color chart; "but statistics show that three per cent are color blind to red." Here the voices became so confused that I could catch only disconnected remarks here and there. Among them I distinguished: "Yes, that's right, the describing circles in red and the path of contact in blue, the rest black; and there will be three plates besides this to be handed in by a week from to-day." "That's all fudge; it can't be done." "Yes, that's the way with a good deal of our accurate work—fudge the centers till it comes right." "Results must correspond within two-tenths of one per cent; you ought to be able to work much closer than that. Why, I remember once when a sample was brought me for analysis"— "Gentlemen! order! order!" yelled the T square; and this gradually changed to a cry of "Charley! Charley! get up! It's fifteen minutes of nine, and you have an exam. to-day,"— And I rose.



## Course XI. -- Sanitary Engineering.



AS originally established, Course XI., which has certainly seen vicissitudes, was made to contain upward of thirty-five hours out of the possible maximum of thirty-three of a Technology week. Under these harsh and distressing conditions even the confirmed dyspeptic grind acknowledged himself unable to master the intricacies of avoiding flunks in all subjects. This cruel state, together with certain other potent factors,—why are factors always potent?—could not fail of its result. The course languished. Hardy entrants were not to be found, even though large rewards were offered for any brave soul who would calmly consent to immolation. *Quæ cum ita sint*, or rather *essent*, as the poet has it, something had to be done. A Faculty meeting sufficed to modify the existing order, and cut down the requirements somewhat. Upon this, a few desperate characters took their lives in their hands, and with eager dreams of Augean labors and Metropolitan Sewage systems, formed the nucleus of a now highly interesting and not too popular course.

For those who seek an example of *multum in parvo*, or *e pluribus unum*, this course offers unexceptionable inducements. It is a complete course in Civil Engineering minus Machines and Motors, and, as one man put it, Meteorology of Iron. It also ranks a close second to Courses V.

and X. for the comprehensive amount of chemistry it contains, while as a promoter of physical culture it yields only to the gymnasium. Its devotees oscillate unsteadily—no reflections!—between the top of Walker and the top of Engineering, with crucible in pocket and drawing board under arm, and like the countryman who ascended a fourteen-story building by the stairway, often feel like inquiring when they reach their destination, “Is God in?”

We youthful sanitary engineers take an interesting subject called railroads, by which we learn that it is unwise to place sleepers in a draughty, ill-drained marsh: this under the tutelage of the patron saint of New England’s characteristic dainty. Bridges we learn to construct so well that any self-respecting sanitary engineer will build you a helicoidal skew arch, with his eyes shut and both hands tied behind him. This subject is of use to us mainly as it teaches us how to get over a thing when we can’t get across it. “The Public Health” is the only thing concerning us which to an outsider—or an insider, either—seems to have anything to do with Sanitary Engineering. But the powers that be designed our course with reference to almost anything in general, and it would not surprise us to find next year compulsory options in Theoretical Electricity and Comparative Anatomy.

Meantime we live in hope.



Drawing a Helicoidal Skew Arch.





## Course XII. -- Geology.



It is with no small misgivings that the historian attempts to write of Course XII. Not that it is a delicate matter. Quite the contrary; for who could imagine a more solid and matter-of-fact subject to deal with than geology? Nevertheless he would far rather discourse learnedly on microcosmic protoplasms than on subcarbonaceous stratifications. Don't infer from this that the historian is a member of that refuge for grinds, Course VII.—Heaven save the mark,—for he is not. He is one of the proud geologists, whose mission it is to point out the important errors made by the Creator in the construction of the earth, and to stand ready to offer advice and suggestions when any new worlds are in contemplation. Such is his humble mission, and no one can now wonder at the historian's diffidence in dealing with such a question as “Geology as I Have(n't) Found It.” Not to proceed too far in any interesting but bootless cosmo-theological discussion, the historian will leave a fascinating idea, and return to his subject.

It has just occurred to him that a few facts about the course might work in well here; but his knowledge on this important subject is of such a nature that any rash, unconsidered statements would tend considerably to lower a reputation which he is doing his utmost to conserve. Therefore,

while it is necessary that he proceed with caution, he feels that a not immoderate expansion of the truth would admit of stating that Course XII. is easily the most select course at Technology. Persons are permitted to enter this course only every four years. Ninety-Five, having many archaic characteristics of the Jurassic and Post-tertiary periods, was permitted to enter two students in the course, but no more may enter till the Class of '99 shows up. This is an excellent provision, as it tends to keep up the interest, and to prevent the contempt bred of familiarity.

Nothing which could contribute to the success of the course was left undone. At the time of the creation Roxbury pudding stone was especially invented, and distributed around Boston in superfluous abundance. A new mineral, known as *tincannite*, was plentifully deposited in the Back Bay district, and *gaspipia brick-batilis* was made to form one of the striking geological features of this section. In this connection the historian might add that the entire course has at all times free and immediate access to the extensive geological collection of the Brookline Gas Company, justly celebrated throughout the world. He regrets that he may not expatiate more fully on the aims and purposes of the course, but the unfeeling demands of the TECHNIQUE Board forbid. He has just a chance to say that Course XII. was established for obvious reasons; *i. e.*, he doesn't know, and couldn't find out, and for further information will refer his readers to the "Tech," Vol. XV., No. 31.



Gaspipia Brick-batilis.



## Course XIII. -- Naval Architecture.



**C**COURSE XIII., the Institute's youngest with the unlucky number, appears for the first time in *TECHNIQUE*, and asks the readers' brief attention. At the opening of our Sophomore year the question on every one's lips was, "What course?" Those of us who answered "Thirteen" were met by a blank stare; so here, to avoid any misunderstanding, I will say at once that Course XIII. is Naval Architecture; that we do not all expect to become Herreshoffs, nor to be placed at the head of Cramp's business immediately on graduating. That is to say, not all of us do, for I dare say that there are not a few who anticipate lively bidding for their services on the part of rival ship builders early in '96. In fact, I myself have a sneaking idea that I am rather to be sought after, and that I am not to be so useless an ornament to my profession as my reports might seem to indicate. This may sound a trifle egotistical, but I assure you it is not; a proper amount of self-assurance is rather necessary in order to circumvent those who are without it, and so I see no harm in having my share.



Not a Herreshoff.

The first lesson assigned is in the deciphering of Tabular Views, General Bulletins, and Attendance Cards; this well learned, the aspirant for

nautical fame is taught the position of a soldier, and how to count up to four. These are very important subjects, and must be thoroughly mastered before proceeding. Then he spends a large portion of his time for a few weeks in trying to find a spot on the ceiling in the back part of one of the lecture rooms, and relinquishes this only to look for a similar point in the third angle one inch below H and two inches back of V.

If he safely passes through these ordeals, he will in his second year be taught how to build a fire, also how to "upset" a piece of iron; and is terrified by the injunction that he must "get right onto it while it is hot." He gets mixed up between the German alphabet and the symbols in Analytic Geometry, and learns how it was proved that the Charles-Boyle-Mariotte law is not true. All these prepare him to learn how to chip the corners off a cast-iron block and how to dig a groove in a piece of wrought iron. Finally, after extricating himself from the tangled web of the corpuscular and wave theories, the theory of color blindness, and the two-fluid theory, he finds himself confronted by a representation of Rogers steps, and leaves for his second long vacation, shuddering at the number of times he has stood above that fearful figure.



Chipping off Corners.

Such an experience as I have just described, we, of Course XIII., had to undergo for two years; but not alone, for members of other courses had the same duties to perform. The careful reader will have noted the prominence given all along our course to subjects connected with naval architecture. One of the beauties of selecting your course in the middle of your freshman year, is, that it saves useless wondering during the second year what course you really do belong to. At the beginning of our third year, however, the individuality of the course began to assert itself. When we entered Room 30, Engineering, on the first day of the term, one of the first objects that struck our eyes was a shelf with the inscription, "These weights are for Course XIII. only." We have since learned that there are seldom any weights on the shelves; but, nevertheless, the notice shows that there are privileges granted only to the favored few. The studies of the third year, too, become interesting; we learn how to mount paper, and how to answer the questions of the admiring members of Course II. as to how we did it, and what we did



it for; we learn about sheer plans, and body plans, and half breadths; about admission, and release, and cut-off; about angle irons, and garboard strakes, and reverse frames,—till we dream of them. We spend our few spare minutes in erasing the lines we have carefully laid down in the drawing periods, and after studying our tables for a long time to find out how these lines should be placed, we inquire, and are told to put them in by eye. Thus we grind on day after day, hoping some time to pass safely through a fourth year, and to secure finally the coveted degree.







# ABBREVIATIONS:

The following Abbreviations have been used in this book.

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A. . . . .	Allston.
Br. . . . .	Brighton.
B. . . . .	Brookline.
C. . . . .	Cambridge.
D. . . . .	Dorchester.
E. B. . . . .	East Boston.
E. S. . . . .	East Somerville.
G. H. . . . .	Grove Hall.
J. P. . . . .	Jamaica Plain.
R. . . . .	Roxbury.
Ros. . . . .	Roslindale.
S. B. . . . .	South Boston.
W. R. . . . .	West Roxbury.

# Register of Students.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
ABBOT, CHARLES GREELEY . . . .	VIII.	'95	Wilton, N. H.
ABBOTT, GARDNER, A. K. E. . . .	IV.	'95	283 So. Leavitt St., Chicago, Ill.
ABBOTT, LOUIS ANDREW . . . .	II.	'95	108 Pembroke St., Boston, Mass.
ABERCROMBIE, DANIEL P., JR., Σ. A. E.	V.	'97	Turner's Falls, Mass.
ADAMS, BENJAMIN . . . . .	VI.	'95	Belmont, Mass.
ADAMS, BURTON ALDEN . . . . .	II.	'98	Essex, Mass.
ADAMS, CHARLES MILLS . . . . .	VI.	'95	59 Waverly St., Roxbury, Mass.
ADAMS, GEORGE WENDELL . . . .	IX.	'98	Kingston, Mass.
ALDEN, EDWIN CLEMENT . . . . .	VI.	'95	142 Stanton Ave., Cincinnati, O.
ALDEN, JOHN TROTT . . . . .	II.	'97	547 Centre St., Newton, Mass.
ALEXANDER, DONALD NELSON . . . .	VI.	'98	33 Falcon St., East Boston, Mass.
ALLAND, LEON . . . . .	VI.	'98	8 Gaston St., Roxbury, Mass.
ALLEN, HENRY WALTER, Δ. Ψ. . . .	X.	'97	Hyde Park, Mass.
ALLEN, LESLIE CHAPMAN . . . . .	I.	'97	Acushnet, Mass.
ALLEN, MARK WEBB, Θ. Ξ. . . . .	XIII.	'96	118 Miami Ave., Detroit, Mich.
ALLEN, WILLIAM HENRY, JR. . . . .	XIII.	'96	293 Commonwealth Ave., Boston.
ALLYN, ROBERT . . . . .	VI.	'98	4 Front St., New London, Conn.
ALLYNE, SAMUEL HINCKLEY . . . .	IV.	'98	131 Union Av., Framingham, Mass.
AMES, AZEL, 3D, Φ. B. E. . . . .	I.	'95	161 Shawmut St., Chelsea, Mass.
AMES, BUTLER, Θ. Ξ. . . . .	II.	'96	333 Andover St., Lowell, Mass.
AMES, JOSEPH WILLIAM . . . . .	VI.	'98	268 Grove St., Melrose, Mass.
ANDERSON, WILLIAM POPE, JR., Θ. Ξ.	III.	'96	75 Pike St., Cincinnati, Ohio.
ANDREW, WILLIAM McCORKLE . . . .	VI.	'96	Linwood, Ohio.
ANTHONY, GEORGE RUTHERFORD . . .	VI.	'98	545 Main St., Waltham, Mass.
APPLETON, HENRY MORGAN, X. Φ. . .	IX.	'95	313 Maple St., Springfield, Mass.
ARNOLD, LYMAN . . . . .	VI.	'98	Park Ave., Springfield, Mass.
ASHLEY, FREDERIC MORSE . . . . .	IV.	'96	334 N. Wash'n St., Rochester, N.Y.
ASHTON, GEORGE FRANCIS . . . . .	II.	'95	336 Essex St., Salem, Mass.
ATKINS, ERNEST CARLTON . . . . .	II.	'96	136 Mitchell St., Providence, R. I.
ATWOOD, THOMAS CLARK . . . . .	I.	'97	362 Cross St., Malden, Mass.
AULTMAN, DWIGHT EDWARD . . . .		'96	Pittsburgh, Penn.
AYRES, ERNEST FLAGG . . . . .	VII.	'98	Auburndale, Mass.
AYRES, MILAN VALENTINE . . . . .	VI.	'97	Newton Centre, Mass.
BABSON, ROGER WARD . . . . .	VII.	'98	2 Angle St., Gloucester, Mass.
BACON, LYMAN EDWARD . . . . .	VIII.	'98	Bridgewater, Mass.
BADGER, ERNEST FRANKLIN . . . . .	V.	'95	2 Hatch St., Everett, Mass.
BAILEY, THOMAS WARD . . . . .	I.	'96	Kingston, Mass.
BAKENHUS, REUBEN EDWIN . . . . .	I.	'96	1412 Wellington Av., Chicago, Ill.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
BAKER, JAMES TIMOTHY . . . . .	V.	'97	Adams, Mass.
BAKER, PHILIP STONE . . . . .	V.	'98	1882 Wash'n St., San Francisco.
BALDWIN, CHARLES F., JR., A. Δ. Φ. .	VI.	'97	105 N. Gay St., Mt. Vernon, O.
BALDWIN, EDWARD ARTHUR, Φ. B. E.	VI.	'96	308 Columbia St., Dorchester.
BALDWIN, HENRY SILL, Δ. K. E. . .	II.	'96	41 Broad St., Middletown, Conn.
BALLOU, CHARLES RATHBONE . . . .	IX.	'97	61 Congdon St., Providence, R. I.
BALLOU, HENRY WELCOME . . . . .	I.	'97	36 Vernon St., Providence, R. I.
BALLOU, LATIMER WILLIS, Φ. B. E. .	II.	'95	16 Harris Ave., Woonsocket, R. I.
BANCROFT, JOSEPH, Θ. Ξ., . . . . .	X.	'97	Rockford, Wilmington, Del.
BANCROFT, WILFRED, Δ. Ψ., . . . .	II.	'97	3310 Arch St., Philadelphia, Pa.
BARR, LAWRENCE, A. B. . . . .	VI.	'95	275 Marlboro St., Boston, Mass.
BARBER, JAMES SAXTON, X. Φ. . . .	V.	'98	63 So. Market St., Canton, Ohio.
BARKER, EDGAR HARRISON . . . . .	II.	'96	175 Prospect St., Lawrence, Mass.
BARKER, ELLIOTT RENSSLAER. . . .	VI.	'98	Dover, N. H.
BARKER, HARRINGTON . . . . .	VIII.	'98	Newell St., No. Cambridge, Mass.
BARKHOUSE, EDGAR LOUIS . . . . .	VI.	'97	1043 Second St., Louisville, Ky.
BARLOW, WILLIAM HARVEY, X. Φ. . .	V.	'96	Mahanoy City, Penn.
BARNARD, LEONARD MYRICK . . . .	IV.	'95	5 Falmouth St., Boston, Mass.
BARNES, WARREN HAMMOND. . . . .	I.	'97	9 Brinsmead St., Marlboro, Mass.
BARRETT, ALFRED LINDSAY, Θ. Ξ. .	VI.	'98	14 New Cross St., Somerville, Mass.
BARROWS, BERNARD . . . . .	X.	'97	Reading, Mass.
BARROWS, HAROLD KILBRETH . . . .	I.	'95	Reading, Mass.
BARRY, EDMUND DRINAN, Δ. K. E. .	XIII.	'95	Bowdoin Street, Dorchester, Mass.
BARTLETT, FREDERICK W., Δ. K. E. .	XIII.	'96	227 W. 139th St., New York, N. Y.
BASS, FREDERIC HERBERT . . . . .	I.	'97	Hyde Park, Mass.
BATCHELDER, CHARLES EILDERMANN .	VI.	'96	930 Fourth St., So. Boston, Mass.
BATES, DANIEL MOORE, JR., Δ. Ψ. . .	X.	'96	3 E. Eighth St., Wilmington, Del.
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 . . . . .	VIII.	'98	Easton, Mass.
BELKNAP, FRANCIS WHEELWRIGHT . .	I.	'95	U. S. Naval Acad., Annapolis, Md.
BENNETT, RAYMOND FRANKLIN . . . .	VI.	'98	35 Melbourne St., Portland, Me.
BENNINK, CARROLL AUGUSTUS . . . .	V.	'98	16 Lee St., Cambridgeport, Mass.
BENSON, NEWTON DAVIS . . . . .	VI.	'98	8 Dawson St., Providence, R. I.
BERGEN, FRANCIS PATRICK . . . . .	VII.	'98	23 John St., Hartford, Conn.
BERRY, CHARLES WILLIAM . . . . .	VI.	'95	6 Centre Street, Somerville, Mass.
BIGELOW, MAURICE WELLS, Φ. B. E. .	II.	'96	Clinton, Mass.
BIGELOW, SAMUEL LAWRENCE, A. B. .	V.	'95	Hotel Victoria, Boston, Mass.
BINLEY, WILLIAM, JR. . . . .	XIII.	'97	14 Tremont St., Newburypt, Mass.
BISSELL, THOMAS HALLY, Ψ. T. . . .	VI.	'97	950 Delaware Ave., Buffalo, N. Y.
BIXBY, GEORGE LINDER . . . . .	X.	'95	Foxboro, Mass.
BLACK, MAURICE . . . . .	II.	'96	19 E. Woodruff Ave., Toledo, O.
BLACKMER, ARTHUR ELIOT . . . . .	I.	'97	12 Warren Ave., Plymouth, Mass.
BLACKMER, WILLIAM DANIELS . . . .	VI.	'98	N. Cascade Ave., Colo. Sp'gs, Colo.
BLAKE, FRANCIS MINOT . . . . .	VI.	'98	426 Marlboro St., Boston, Mass.
BLAKE, FRANCIS POLK, Φ. Δ. Θ. . . .	III.	'96	247 Prytania St., New Orleans, La.
BLANCHARD, ARTHUR ALPHONZO . . .	V.	'98	Newton Centre, Mass.
BLEECKER, JOHN STEARNS . . . . .	I.	'98	Navy Yard, Charlestown, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
BLISS, DUANE LEROY, JR., X. Φ.	II.	'95	Carson City, Nev.
BLISS, EDWIN PACKARD	I.	'97	Newburyport, Mass.
BLISS, GEORGE HENRY	I.	'96	10 Allen St., Newburyport, Mass.
BLISS, WALTER DANFORTH, X. Φ.	IV.	'95	Carson City, Nev.
BLODGETT, KINSLEY	I.	'96	71 Park Place, Pawtucket, R. I.
BLODGETT, PERLEY HARTWELL	V.	'95	13 Albion St., Hyde Park, Mass.
BLOOD, GEORGE WHITEFIELD	III.	'98	232 High St., Newburyport, Mass.
BLOOD, PERCY ERFORD	I.	'97	Graniteville, Mass.
BLUME, JOHN CHRISTOPHER	X.	'97	69 Charles St., Boston, Mass.
BOARDMAN, FRED CLEVELAND	VI.	'97	Natick, Mass.
BODWELL, HOWARD LAWRENCE	VI.	'98	W. Boxford, Mass.
BOECK, GEORGE HENRY, Φ. Δ. Θ.	IV.	'97	3706 Delmar Ave., St. Louis, Mo.
BOEDEKER, JOHN	VI.	'95	8 Atwood Pl., Springfield, Mass.
BOESEKE, EDGAR AUGUSTUS	II.	'95	Santa Barbara, Cal.
BOLAND, MARY A.	V.	'95	117 W. Newton St., Boston, Mass.
BONNYCASTLE, WILLIAM ROBINSON	VI.	'97	Louisville, Ky.
BOOTH, GEORGE HENRY	II.	'97	26 Garfield Pl., Po'keepsie, N. Y.
BOOTH, THOMAS BUTLER, Δ. K. E.	VI.	'95	142 Deer Hill Ave., Danbury, Ct.
BORLAND, HUGH	I.	'97	25 Church St., St. Johnsbury, Vt.
BOURNE, FRANK AUGUSTUS	IV.	'95	63 Fourth St., Bangor, Me.
BOURNE, JESSE HASKELL	II.	'95	Foxboro, Mass.
BOWEN, EDGAR CAMPBELL, JR.	II.	'97	352 Jefferson Ave., Brooklyn, N. Y.
BOWEN, KATE AGNES	VII.	'97	219 Prospect Ave., Buffalo, N. Y.
BOWEN, RALPH ALBERT	V.	'97	Adams, Mass.
BOWERS, ALLSTON RICE	I.	'97	Needham, Mass.
BOWES, GEORGE SIDNEY	II.	'96	1 Faxon St., Utica, N. Y.
BOWIE, AUGUSTUS JESSE, JR., A.B.	VI.	'96	1913 Clay St., San Francisco, Cal.
BOYD, JOHN	V.	'97	72 Marshall St., No. Adams, Mass.
BOYLE, MARTIN	VI.	'98	Merrimac St., Newburyport, Mass.
BRACKETT, EDWIN RAYMOND	V.	'96	100 Sargent St., Newton, Mass.
BRACKETT, THOMAS THAYER, Δ. K. E.	VI.	'96	Ridgew'd Av., Minneapolis, Minn.
BRACKETT, WALLACE CLARKE, Σ. A. E.	XI.	'95	247 Chestnut St., Chelsea, Mass.
BRADLEE, CHARLES WALTER	IX.	'97	113 Beacon St., Boston, Mass.
BRADLEY, FRANCIS EDWIN	V.	'97	499 Broadway, So. Boston, Mass.
BRAGG, EDWARD MILTON	XIII.	'96	239 Prospect St., Camb'port, Mass.
BRAGG, ERNEST ATHERTON	II.	'98	Braggville, Mass.
BRAGG, FRANKLIN EVERETT, Δ. Y.	VI.	'97	48 Grove St., Bangor, Me.
BRAINERD, EDWIN ALPHEUS	I.	'97	39 Olney St., Dorchester, Mass.
BRAMHALL, CHARLES THOMAS	II.	'97	139 Court St., Plymouth, Mass.
BRAY, CLINTON ELDRIDGE	V.	'98	Yarmouthport, Mass.
BREED, CHARLES BLANEY	I.	'97	12 George St., Lynn, Mass.
BREED, GEORGE HORACE	V.	'98	1026 Fourth Ave., Louisville, Ky.
BREED, LEWIS BAZZONI	VI.	'96	9 Portland St., Lynn, Mass.
BREWER, ARTHUR FRANCIS	III.	'98	Fayville, Mass.
BREWSTER, WILLIAM	I.	'98	11 Court St., Plymouth, Mass.
BROOKS, ALFRED MANSFIELD, A.B.	IV.	'96	Gloucester, Mass.
BROOKS, JOHN FLAVEL	II.	'96	No. Hanover, Mass.
BROOKS, MILES ELIJAH	X.	'98	19 Milford St., Boston, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
BROWN, ALLEN PERCY . . . . .	IX.	'95	Schuyler, Neb.
BROWN, CARDELLA DRAKE, Σ. A. E. . . . .	IX.	'98	1470 Broad St., Hartford, Conn.
BROWN, HARRY E. . . . .	I.	'98	15 Vestry St., Haverhill, Mass.
BROWN, HARRY WEBSTER . . . . .	VI.	'96	9 Wash'ton St., Winchester, Mass.
BROWN, JAMES MONROE . . . . .	II.	'97	81 Sturges Ave., Mansfield, Ohio.
BROWNE, HARRY PATRICK . . . . .	VI.	'96	511 Chenevert St., Houston, Tex.
BRUCE, ANNETTA . . . . .	VII.	'97	117 Gordon Ave., Hyde Park.
BUCHER, RUSSELL SAMUEL, Σ. A. E. . . . .	IV.	'95	Harrisonburg, Va.
BUCK, HATTIE JOSEPHINE . . . . .		'98	60 Union St., Woburn, Mass.
BUCK, JOHN ELMER . . . . .	I.	'97	6 Fairmount St., Woburn, Mass.
BURDICK, HOWARD HENRY, Σ. A. E. . . . .	II.	'97	205 Sigourney St., Hartford, Ct.
BURGESS, GEORGE KIMBALL . . . . .	VIII.	'96	Newtonville, Mass.
BURKHALTER, DE NISE . . . . .	II.	'95	Cedar Rapids, Iowa.
BURNHAM, GEORGE, Δ. K. E. . . . .	IV.	'97	35 West St., Portland, Me.
BURRILL, NATHAN CARTER . . . . .	I.	'97	17 Winter St., Newburyport.
BUSBY, FRED EDWARD . . . . .	V.	'97	Adams, Mass.
BUSH, WALTER MEIGGS . . . . .	II.	'97	414½ Clinton St., Brooklyn, N. Y.
BUTCHER, WILLIAM LARAMY . . . . .	VII.	'98	197 Lake View Av., C'mb'ge, Mass.
BUTLER, WINTHROP FESSENDEN . . . . .	X.	'98	79 Tudor St., Chelsea, Mass.
BUTTERWORTH, ELWELL ROBERT . . . . .	II.	'97	15 Harvard Pl., Somerville, Mass.
BYAM, LE ROY HENRY . . . . .	VI.	'98	337 Crescent St., Waltham, Mass.
CABOT, SEWALL, Φ. Γ. Δ. . . . .	VI.	'96	Brookline, Mass.
CABOT, WALTER MASON, A.B. . . . .	IV.	'96	Heath St., Brookline, Mass.
CADE, MARION LOUISE . . . . .	III.	'98	14 Clinton St., Camb'port, Mass.
CALLAN, JOHN GURNEY . . . . .	VI.	'96	23 Perkins St., Lynn, Mass.
CAMP, WALTER TRUMBULL, Θ. Ξ. . . . .	IX.	'98	124 Washington St., Norwich, Ct.
CAMPBELL, DONALD C., Δ. T. Δ. . . . .	II.	'97	83 Queen St., Lowell, Mass.
CAMPBELL, JUSTIN WILLIS . . . . .	III.	'96	Corey St., West Roxbury, Mass.
CANFIELD, ARTHUR LAKE . . . . .	II.	'95	Chicago, Ill.
CANNON, LEWIS TELLE . . . . .	IV.	'96	Salt Lake City, Utah.
CANNON, ROBERT MELVILLE, B.C.E. . . . .	III.	'95	Wyman, Ia.
CAPEN, CARROLL ADAMS . . . . .	X.	'97	Randolph, Mass.
CAPRON, SETH ALTON . . . . .	II.	'97	Walker, Mass.
CARR, JOSEPH LEWIS . . . . .	I.	'97	26 Watts St., Chelsea, Mass.
CARR, ROBERT WENTWORTH . . . . .	III.	'95	929 Avenue C., San Antonio, Tex.
CARROLL, THOMAS FRANCIS . . . . .	II.	'98	37 Charles St., Boston, Mass.
CARTER, FRANK HARVIE . . . . .	I.	'97	50 Orchard St., Lynn, Mass.
CARTY, JOHN EDWARD . . . . .	I.	'97	6 Kensington St., Roxbury, Mass.
CARY, LOUIS ALEXANDER . . . . .	VI.	'96	Medway, Mass.
CASHMAN, JOHN FRANCIS, A.B. . . . .	VI.	'97	38 Concord Sq., Boston, Mass.
CASPARY, ALFRED HENRY . . . . .	II.	'98	19 E. 71st St., New York, N. Y.
CHACE, IRA MASON, JR., . . . . .	V.	'98	37 Fifth St., New Bedford, Mass.
CHAMBERLAIN, H. W., B.Sc., Δ. T. Δ. . . . .	IV.	'95	Hudson, Ohio.
CHAMBERLIN, HELEN . . . . .	IV.	'96	76 Huntington Av., Boston, Mass.
CHAPIN, EDWARD SAMUEL . . . . .	II.	'98	23 Parker St., Boston, Mass.
CHASE, HAROLD MAYSON, S.B. . . . .	V.	'95	Mammoth Road, Lowell, Mass.
CHASE, WALTER SIMONS . . . . .	IV.	'95	Franklin Wharf, Portland, Me.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
CHEEVER, MARION . . . . .	IX.	'97	557 Boylston St., Boston, Mass.
CHENERY, WINTHROP HOLT . . . .	IV.	'96	Belmont, Mass.
CHITTENDEN, ALBERT . . . . .	IV.	'96	38 St. Botolph St., Boston, Mass.
CHURCHILL, DAVID CARROLL . . . .	II.	'97	Oberlin, Ohio.
CHURCHILL, PERCIVAL MITCHELL . .	I.	'95	Elmwood, Mass.
CLAFLIN, WILLIAM BEMENT, Φ. T. Δ. .	IV.	'95	Wayne, Penn.
CLAPP, MABEL DELANO . . . . .	XII.	'98	Hotel Vendome, Boston, Mass.
CLAPP, SIDNEY KINGMAN . . . . .	I.	'95	6 Clapp Pl., Dorchester, Mass.
CLARK, ARTHUR HENRY, Σ. A. E. . .	VI.	'95	240 Third Ave., Cedar Rapids, Ia.
CLARK, CARL HERBERT . . . . .	XIII.	'95	91 Clifton St., Roxbury, Mass.
CLARK, HENRY ARCHER . . . . .	II.	'97	207 Second St., Pittsfield, Mass.
CLARK, HENRY HUNT . . . . .	VII.	'98	Belmont, Mass.
CLARK, JAMES KENNETH . . . . .	II.	'97	114 Market St., Warren, Penn.
CLARK, SCHUYLER STEVENS . . . .	VII.	'95	30 Kanter Block, Detroit, Mich.
CLARKE, ROBERT CAMPBELL, Δ. Ψ. .	IX.	'95	Atlanta, Ga.
CLARY, JOSEPH WARD, Δ. Y. . . .	XIII.	'96	Milton, Mass.
CLEAVELAND, WALTER AVERY . . .	VI.	'98	West Newton, Mass.
CLEAVES, EZRA EAMES . . . . .	IV.	'97	Rockport, Mass.
CLIFFORD, PAUL . . . . .	II.	'98	562 Mass. Ave., Boston, Mass.
CLIFFORD, WILLIAM H., JR., Θ. Ξ. .	V.	'96	113 Vaughan St., Portland, Me.
CLUETT, ALBERT E., A.B., Δ. Ψ. .	VI.	'95	42 Second St., Troy, N. Y.
COBB, HERBERT FRANKLIN . . . .	V.	'98	Newton Centre, Mass.
COBB, HERBERT LUTHER . . . . .	VI.	'97	Mansfield, Mass.
COBURN, ARTHUR STONE . . . . .	III.	'95	49 Oak St., Lowell, Mass.
COBURN, WALTER SPRAGUE . . . .	III.	'97	14 Wannalancet St., Lowell, Mass.
CODDINGTON, HARRY P., Δ. K. E. . .	VI.	'95	Hartwell, Ohio.
COLCORD, FRANK FOREST . . . . .	II.	'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 . . . .	VII.	'98	Denver, Colo.
COLLINS, JOHN ARTHUR, JR. . . .	X.	'97	5 Cottage St., Fall River, Mass.
COLMAN, WILLARD HENRY . . . . .	II.	'96	812 So. 6th St., La Crosse, Wis.
CONANT, FRANCIS MELVIN . . . . .	X.	'96	75 Pleasant St., Watertown, Mass.
CONANT, LUTHER, JR. . . . .	IX.	'95	Acton, Mass.
CONKLIN, HERBERT KING . . . . .	VII.	'98	235 Orange St., Newark, N. J.
COOK, FRANK REMICK . . . . .	I.	'96	30 Bagg St., Detroit, Mich.
COOK, JOSEPH COCHRAN . . . . .	VIII.	'97	1 Codman Park, Roxbury, Mass.
COOKE, CHARLES PRENTICE . . . .	VI.	'95	Farmington, N. H.
COOKE, JOHN WILLIAMSON . . . . .	VI.	'95	Trapelo Road, Waltham, Mass.
COOKE, JOHN WINFIELD . . . . .	VI.	'95	Farmington, N. H.
COOLIDGE, WILLIAM DAVID . . . .	VI.	'96	Hudson, Mass.
COOLIDGE, WINTHROP, Δ. K. E. . .	III.	'96	4752 Kimbark Ave., Chicago, Ill.
COOMBS, FRANK EUGENE . . . . .	XII.	'98	26 Maverick St., E. Boston, Mass.
COONLEY, AVERY, A.B. . . . .	V.	'96	620 Division St., Chicago, Ill.
CORNELL, WORTHINGTON . . . . .	IV.	'98	Wellington, Mass.
CORSON, WILLIAM BERTRAND . . . .	II.	'96	55 Palfrey St., Watertown, Mass.
COTTER, WILLIAM EDWARD . . . .	IV.	'97	18 Skehan St., Somerville, Mass.
COTTLE, GEORGE THURSTON . . . .	III.	'98	13 Copley St., Roxbury, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
COTTON, LEONARD MILLER . . . . .	IX.	'96	Dedham, Mass.
COWLES, LUZERNE SIMEON, S. A. E. . .	I.	'97	41 Forest St., Hartford, Conn.
CRAFTS, WALTER NATHAN, A.B. . . .	III.	'95	Columbus, Ohio.
CRAMER, EDWIN CLAASSEN . . . . .	IV.	'96	205 Lyon St., Milwaukee, Wis.
CRANE, EVA HAYES . . . . .	IX.	'98	56 Trowbridge St., Camb'ge, Mass.
CRANE, HENRY MIDDLEBROOK, A. F. . .	II.	'96	500 Madison Av., New York, N. Y.
CRANE, STEPHEN DOW, S. A. E. . . .	VI.	'96	224 W. Canton St., Boston, Mass.
CRANE, THOMPSON BAXTER . . . . .	IV.	'96	159 Washington St., Quincy, Mass.
CRAVEN, GEORGE WARREN . . . . .	VI.	'97	Bozeman, Mont.
CROCKER, ALLEN SWIFT . . . . .	II.	'97	226 Kempton St., N. Bedford, Mass.
CROCKER, CARL IRA . . . . .	I.	'96	102 Park St., Portland, Me.
CROCKER, LINCOLN . . . . .	XIII.	'97	Washington St., Brookline, Mass.
CROSBY, RALPH WORTHINGTON . . . .	XIII.	'96	Osterville, Mass.
CROWELL, LUTHER ALBERTO . . . . .	VIII.	'98	West Dennis, Mass.
CUDWORTH, EUGENE THURSTON . . . .	IV.	'98	308 Saratoga St., E. Boston, Mass.
CUMMINGS, HENRY, JR. . . . .	IV.	'96	3 Union Park, Boston, Mass.
CUMMINGS, ROBERT MILLER . . . . .	XIII.	'97	1 Linden St., So. Boston, Mass.
CUNNINGHAM, EDWARD BRAHON . . . .	X.	'96	San Antonio, Texas.
CURRIER, CHARLES RICHARDSON . . . .	II.	'97	Lamartine St., Jamaica Pl., Mass.
CURRIER, EVERETT FARNSWORTH . . .	VIII.	'98	304 High St., Newburyport, Mass.
CURRIER, HARVEY LEON . . . . .	VII.	'98	Norfolk Ave., Swampscott, Mass.
CURRY, WILLIAM . . . . .	VI.	'98	Homewood Av., Pittsburgh, Pa.
CURTIS, ARTHUR VINTON . . . . .	XIII.	'97	Quincy, Mass.
CURTIS, EVERETT NICHOLS . . . . .	VII.	'98	Camden, Me.
CUSHING, JOSEPH . . . . .	IX.	'96	27 Holt St., Fitchburg, Mass.
CUTLER, WILLIAM HENRY, A. K. E. . .	IV.	'97	4801 Kenwood Ave., Chicago, Ill.
CUTTER, FRED BERTRAM . . . . .	VI.	'97	16 Otis St., Wakefield, Mass.
CUTTER, GEORGE ALBERT . . . . .	II.	'95	92 Gordon Ave., Hyde Park, Mass.
DALY, ROBERT EMMETT . . . . .	V.	'97	3 W. Newton St. Ex., Boston, Mass.
DAMON, FREDERICK WHITMAN . . . .	VI.	'96	Arlington, Mass.
DANFORTH, HELEN CALHOUN . . . . .	VII.	'96	Lake Forest, Ill.
DANFORTH, RAYMOND HEWES . . . . .	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 LAMSON . . . . .	III.	'97	27 Albion St., Hyde Park, Mass.
DAVIS, ARTHUR TRUE . . . . .	IX.	'98	639 Congress St., Houlton, Me.
DAVIS, CHARLES WYLIE, M.E., X. F. .	VI.	'96	277 Western Ave., Allegheny, Pa.
DAVIS, DAVID . . . . .	IV.	'97	425 East Fourth St., Newport, Ky.
DAVIS, FRANKLIN HAYES, S. A. E. . .	III.	'96	Wayne, Penn.
DAVIS, ROBERT ALLEN . . . . .	VI.	'96	Yarmouthport, Mass.
DAVIS, WILLIAM EDWARD, JR., X F. .	IV.	'95	7214 Webster Ave., Chicago, Ill.
DAVISON, GEORGE RUPERT . . . . .	VII.	'98	33 M St., South Boston, Mass.
DAWES, FRED BRADLEY . . . . .	VII.	'98	Hudson, Mass.
DEAN, ARTHUR DAVIS . . . . .	VI.	'96	20 Harris St., N. Cambridge, Mass.
DE AZEVEDO, LUIZ MARINHO . . . . .	IV.	'98	Sao Paulo, Brazil.
DEFREN, GEORGE . . . . .	V.	'95	449 Eighth St., So. Boston, Mass.
DEJONGE, ALFRED LOUIS . . . . .	II.	'95	Stapleton, N. Y.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
DELANO, MAURICE FRANCIS . . . .	VI.	'98	Falmouth, Mass.
DELANO, PAUL HOLMES . . . .	XIII.	'97	Kingston, Mass.
DE LONG, HAROLD WILLIAMS . . . .	XIII.	'96	47 High St., Medford, Mass.
DEMERITT, LEONARD MORSE . . . .	II.	'97	52 No. Main St., Natick, Mass.
DEMING, WALTER EDGAR SPENCER . .	VI.	'97	23 Fulda St., Roxbury, Mass.
DENISON, EDWARD ELIAS, Φ. B. E. . .	X.	'95	66 Deering St., Portland, Me.
DENISON, ROBERT LINCOLN, Φ. B. E. .	IV.	'97	66 Deering St., Portland, Me.
DE WOLF, ARTHUR SIMON . . . .	II.	'97	Melrose Highlands, Mass.
DIAZ, JOSE YGNACIO, B. S. . . .	VI.	'95	Caracas, Venezuela.
DIAZ, MANUEL DIONYSIUS, A.B. . . .	I.	'97	Matanzas, Cuba.
DICKERMAN, JUDSON CHARLES . . . .	X.	'95	113 Pembroke St., Boston, Mass.
DICKINSON, LEONARD DAVID P. . . .	VI.	'96	521 Wilson St., Manchester, N. H.
DICKSON, MARSHALL MAR . . . .	III.	'96	1410 Rusk Ave., Houston, Tex.
DIETRICH, CARL JOHANN . . . .	IV.	'97	372 Main St., Hartford, Conn.
DISSTON, HENRY, Δ. Φ. . . . .	V.	'96	1505 N. Broad St., Philadelphia, Pa.
DIXON, CHARLES SUMNER . . . .	VII.	'98	1608 R St., N. W. Wash'ton, D. C.
DIXON, JOHN BROWN . . . .	IV.	'98	1608 R St., N. W. Wash'ton, D. C.
DODD, JOHN WELLINGTON . . . .	VI.	'98	58 Townsend St., Roxbury, Mass.
DODGE, IRVING BIGELOW . . . .	VI.	'98	Grafton, Mass.
DODGE, WINTHROP RUFUS . . . .	IX.	'98	Newburyport, Mass.
DOLIBER, FRANKLIN WHITNEY, O. E. .	IX.	'96	Goddard Ave., Brookline, Mass.
DONHAM, BENJAMIN CURTIS . . . .	I.	'95	Rockland, Mass.
DONNELL, HARRY DEANE . . . .	I.	'96	Poncha Springs, Colo.
DONOVAN, JOHN AUGUSTINE . . . .	IX.	'97	Salem, Mass.
DORRANCE, JOHN THOMPSON, Σ. A. E. .	V.	'95	Bristol, Penn.
DORRANCE, WILLIAM TULLY, A.B., Ψ. Υ. .	I.	'96	98 Waterman St., Providence, R. I.
DOTEN, ALFRED RUSSELL . . . .	II.	'97	8 Mayflower St., Plymouth, Mass.
DOUGHERTY, PROCTOR LAMBERT . . .	VI.	'97	417 Broadway, Cambridge, Mass.
DOWD, ELIZABETH GERTRUDE . . . .	VIII.	'97	12 Madison St., Roxbury, Mass.
DOWNES, ALFRED KIMBALL, Δ. Υ. . .	I.	'96	5 Wash'ton Sq., Gloucester, Mass.
DRAKE, ALBERT WESLEY, Σ. A. E. . .	VI.	'95	West Medford, Mass.
DRAKE, CHESTER FRANCIS, Σ. A. E. . .	XI.	'96	West Medford, Mass.
DRAPER, FRED WALLACE . . . .	III.	'95	Fayville, Mass.
DRAPER, ROBERT MAY . . . .	III.	'98	Fayville, Mass.
DREW, ALBERT THOMPSON . . . .	X.	'97	84 Federal St., Newburyport, Mass.
DRISCOLL, JAMES MICHAEL . . . .	I.	'96	11 Kent St., Brookline, Mass.
DRISCOLL, JOSEPH . . . .	I.	'96	11 Kent St., Brookline, Mass.
DRISCOLL, TIMOTHY JOSEPH . . . .	VI.	'97	7 Hamburg St., Boston, Mass.
DRISKO, WILLIAM JOHNSON . . . .	VIII.	'95	903 Boylston St., Boston, Mass.
DRUM, ALPHONSUS LIGOURI . . . .	VI.	'96	116 W. 84th St., New York, N. Y.
DUMARESQUÉ, PHILIP . . . .	I.	'95	Brookline, Mass.
DUNBAR, ALBERT . . . .	V.	'95	Pittsfield, Mass.
DUNN, WASHINGTON CHARLES, Δ. Υ. .	II.	'97	243 W. Church St., Lock Haven, Pa.
DU PONT, HENRY BELIN, Φ. B. E. . .	X.	'95	Wilmington, Del.
DU PONT, IRÉNÉE, Φ. B. E. . . .	X.	'97	Wilmington, Del.
DUTTON, HENRY STEVENS, B.S., Σ. X. .	IV.	'97	1001 Pine St., San Francisco, Cal.
DWYER, JOHN RICHARD . . . .	IV.	'97	4378 Wash'ton Av., St. Louis, Mo.
DYER, HARRY WING, Σ. A. E. . . .	IV.	'96	38 Cushman St., Portland, Me.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
EAMES, CHARLES HOLMES . . . . .	VI.	'97	Andover, Mass.
EAMES, EDWARD ASHLEY, X. Φ. . . . .	VI.	'96	59 Fargo Ave., Buffalo, N. Y.
EATON, WILLIAM WISE . . . . .	II.	'97	Bridgewater, Mass.
EDGERLEY, DANIEL WILBERT . . . . .	VI.	'98	134 Green St., Cambridge't, Mass.
EDMANDS, FREDERICK LINCOLN . . . . .	II.	'97	29 Broad St., Newburyport, Mass.
ELLIOT, RICHARD OLIVER . . . . .	IX.	'96	Thomaston, Me.
ELLIS, ROLFE MARSH . . . . .	V.	'95	90 Beacon St., Hyde Park, Mass.
ELLIS, WALTER HOWE . . . . .	I.	'95	50 Prospect St., Woonsocket, R.I.
ELY, CHARLES HARDY, Θ. Ξ. . . . .	VII.	'98	Newburgh, N. Y.
EMERSON, LOUVILLE EUGENE, Σ. A. E. . . . .	VI.	'96	Portland, Me.
EMERY, EARLE CALDWELL . . . . .	VI.	'98	80 Congress St., Bradford, Penn.
EMERY, EVERETT CHACE . . . . .	IX.	'98	35 Saratoga St., E. Boston, Mass.
ESTES, FRANCIS THOMAS . . . . .	VI.	'96	Newtonville, Mass.
EVELETH, CHARLES FREDERIC . . . . .	VI.	'95	South Lincoln, Mass.
EVERETT, FRANK WARREN . . . . .	VI.	'97	Highland Park, Ill.
EVERETT, JULIAN FRANKLIN . . . . .	IV.	'97	Poynette, Wis.
EWEN, MALCOLM FAULKNER . . . . .	IV.	'97	Concord, Mass.
EWING, CHARLES . . . . .	IV.	'97	1610 Riggs Pl., Washington, D.C.
EWING, WILLIAM CLINTON . . . . .	VI.	'96	Danvers, Mass.
EYNON, JOHN STUART . . . . .	VI.	'96	112 Washington St., Utica, N. Y.
FAIRBANKS, WILLIAM KENDALL . . . . .	VI.	'97	213 Newbury St., Boston, Mass.
FARLEY, JOHN WELLS . . . . .	V.	'98	Boston, Mass.
FARQUHAR, ROBERT DAVID, A.B. . . . .	IV.	'95	55 Pembroke St., Newton, Mass.
FARWELL, RALPH SEWELL . . . . .	VI.	'98	1343 Michigan Ave., Chicago, Ill.
FAUGHT, RAY CLINTON . . . . .	VIII.	'98	54 Bellevue St., Boston, Mass.
FAXON, FRANCIS EDWIN . . . . .	II.	'95	Conway, N. H.
FAXON, WILLIAM ALECK . . . . .	V.	'97	170 Linwood Ave., Buffalo, N. Y.
FAY, WINTHROP LINCOLN . . . . .	I.	'98	19 Free St., Dexter, Me.
FAYFIELD, ROBERT C. . . . .	IV.	'96	95 Hodge Ave., Buffalo, N. Y.
FEARING, ALBERT JUSTIN . . . . .	V.	'98	South Weymouth, Mass.
FEELEY, FRANK GOODRICH . . . . .	II.	'97	162 Summer St., Pittsfield, Mass.
FERRIS, ROBERT MURRAY, JR. . . . .	VI.	'97	Poughkeepsie, N. Y.
FIELD, DAVID DUDLEY, Θ. Ξ. . . . .	II.	'97	Stockbridge, Mass.
FIELD, FREDERICK CROMWELL, Φ. B. E. . . . .	VI.	'96	158 Hicks St., Brooklyn, N. Y.
FIELD, FREDERICK ELBERT . . . . .	XI.	'96	Greenfield, Mass.
FIELD, RUSSELL AMBLER . . . . .		'98	14 Somerset Ave., Taunton, Mass.
FIELD, WILLIAM ELLIS . . . . .	IV.	'97	Weymouth, Mass.
FISH, MILTON LATHROP . . . . .	VI.	'95	Pasadena, Cal.
FISHER, GEORGE EDWARD . . . . .	II.	'98	61 Summer St., Natick, Mass.
FISHER, ELIZABETH FLORETTE . . . . .	XII.	'95	142 Trenton St., E. Boston, Mass.
FISHER, HOWELL . . . . .	V.	'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.
FITCH, FRED DOUGLASS . . . . .	IV.	'98	73 Montgomery St., Boston, Mass.
FITTEN, JAMES TURNER, Δ. Ψ. . . . .	VI.	'98	101 Capitol Ave., Atlanta, Ga.
FITTS, ADA MARY . . . . .	VII.	'98	Madison P'k Hotel, Boston, Mass.
FITZ GERALD, FRANCIS A. J., B.A. . . . .	VI.	'95	27 Up'r Merrion St., Dublin, Ire.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
FLEET, JOHN WALLIS . . . . .	XI.	'98	13 Park St., Fall River, Mass.
FLEISHER, SIMON . . . . .	VIII.	'98	24 Norman St., Boston, Mass.
FLEMING, CHARLES EDWIN . . . . .	VI.	'98	Spartanburg, S. C.
FOGERTY, EMORY HARTWELL . . . . .	IX.	'98	51 John St., Worcester, Mass.
FORREST, MABEL FLORA . . . . .	VI.	'98	227 Westford St., Lowell, Mass.
FORSTER, FREDERICK EVERARD . . . . .	X.	'96	438 L'xing'n Av., New York, N.Y.
FORT, JEROME HENRY . . . . .	III.	'97	473 Evergreen Av., Brooklyn, N.Y.
FOWNES, WILLIAM CLARK . . . . .	II.	'98	Pennsylvania Av., Pittsburgh, Pa.
FOX, WILLIAM HENRY, S. X. . . . .	IV.	'97	29 E. Merrimac St., Lowell, Mass.
FRANK, MORTIMER . . . . .	I.	'96	233 Hampden Ct., Chicago, Ill.
FRANKLIN, ARTHUR IRA . . . . .	V.	'97	115 Bellevue St., Newton, Mass.
FRAZIER, CHARLES WELLINGTON . . . . .	VI.	'97	50 Mall St., Lynn, Mass.
FRENCH, ABRAM . . . . .	V.	'98	Dedham, Mass.
FRESCH, GEORGE, JR. . . . .	IV.	'96	St. Louis, Mo.
FULLER, ANDREW DANIEL, $\Phi$ B. E. . . . .	I.	'95	12 Wave Ave., Wakefield, Mass.
FULLER, FREDERIC WILLIAM, $\Phi$ B. E. . . . .	VI.	'96	152 N. Main St., Springfield, Mass.
FULLER, GEORGE ARTHUR, $\Phi$ B. E. . . . .	VI.	'97	152 N. Main St., Springfield, Mass.
FULLER, MYRON LESLIE . . . . .	XII.	'96	157 Spring St., Brockton, Mass.
FULLER, ROBERT LESURE, $\Phi$ B. E. . . . .	IV.	'95	452 Main St., Worcester, Mass.
FYFE, JAMES L. . . . .	IV.	'98	417 Home Ave., Oak Park, Ill.
GAGE, STEPHEN DE MERITTE . . . . .	V.	'96	227 Main St., Bradford, Mass.
GAILLARD, LAWRENCE LEE, A. T. $\Omega$ . . . . .	VI.	'98	Charleston, S. C.
GALLISON, ERNEST AUGUSTUS . . . . .	XI.	'98	139 Division St., Chelsea, Mass.
GARDINER, JOHN HOWLAND . . . . .	II.	'95	Jamestown, R. I.
GARDINER, WILLIAM HOWARD, JR. . . . .	V.	'97	12 Otis Pl., Boston, Mass.
GARDNER, HENRY . . . . .	II.	'95	24 Chestnut St., Salem, Mass.
GARDNER, LESTER DURAND . . . . .	I.	'98	Detroit, Mich.
GARFIELD, ABRAM, A.B. . . . .	IV.	'96	Mentor, Ohio.
GARRETT, CHRISTINA HALLOWELL . . . . .	V.	'98	22 So. 36th St., Philadelphia, Pa.
GATES, HATTIE LAWRENCE . . . . .	VII.	'97	136 W. Concord St., Boston, Mass.
GAY, CHARLES MERRICK, JR., A.B. . . . .	VI.	'95	Hotel Huntington, Boston, Mass.
GAYLER, JULIUS FREDERICK . . . . .	IV.	'97	2917 Henrietta St., St. Louis, Mo.
GEHRING, EDWIN WAGNER . . . . .	VI.	'98	Bethel, Me.
GIBBONS, MARY H. . . . .	I.	'98	44 South St., Jamaica Plain, Mass.
GILBERT, FREDERICK CHESTER . . . . .	IV.	'97	23 Lawrence St., Camb'pt, Mass.
GILBERT, PERLEY FRED . . . . .	IV.	'95	Andover, Mass.
GILLESPIE, AMOS EWING . . . . .	V.	'96	Colora, Md.
GILMAN, JOHN EDWARD, JR., A.B. . . . .	I.	'97	45 Saunders St., Allston, Mass.
GLADDING, JOHN THOMAS FISKE . . . . .	II.	'98	573 Potters Ave., Providence, R. I.
GLEASON, WALTER AUSTIN . . . . .	I.	'97	44 Wyoming Ave., Malden, Mass.
GODBOLD, CHARLES HENRY, JR. . . . .	VI.	'98	150 Trenton St., E. Boston, Mass.
GODDARD, JOHN NEWTON . . . . .	VI.	'98	8 Harris St., Newburyport, Mass.
GODLEY, GEORGE MCMURTRIE . . . . .	VI.	'98	Sherman Sq. Hotel, N. York, N.Y.
GOLDSMITH, CLARENCE . . . . .	II.	'96	Andover, Mass.
GOODHUE, LEONARD HARRINGTON . . . . .	V.	'96	6 Chestnut St., Salem, Mass.
GOODRICH, ANNIE LOUISE . . . . .	VII.	'98	7 Court St., Nashua, N. H.
GOODRICH, ARTHUR LINDSAY . . . . .	IV.	'98	Stockbridge, Mass.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
GOODSPEED, GEORGE MARSTON . . .	V.	'96	Hyde Park, Mass.
GOODWILLIE, JAMES BARRETT, Ph.B.	III.	'98	1147 Prospect St., Cleveland, O.
GOODYEAR, WATSON EDWARD . . .	VI.	'95	Naugatuck, Conn.
GORDON, EDWARD BERTELLE, JR. . .	II.	'96	174 Lewis St., Lynn, Mass.
GORDON, ELIZABETH FULTON . . .	VII.	'98	Arlington, Mass.
GOUDEY, FRANK BUDD . . . . .	I.	'97	117 Pembroke St., Boston, Mass.
GOUGH, JOHN BERNARD . . . . .	I.	'97	557 Broadway, Providence, R. I.
GOWEN, SUMNER . . . . .	I.	'97	Wakefield, Mass.
GRABAU, AMADEUS WILLIAM . . . .	XII.	'95	87 Appleton St., Boston, Mass.
GRAHAM, ROBERT CHARLES . . . .	IX.	'98	E. Greenwich, R. I.
GRAY, ALBERT WEBSTER . . . . .	VIII.	'98	38 Stanley St., Dorchester, Mass.
GRAY, OWEN HERRICK . . . . .	VI.	'97	235 W. Fifth St., St. Paul, Minn.
GREEN, ANDREW HUGH, A.B. . . .	I.	'96	403 La Salle Ave., Chicago, Ill.
GREEN, FRANCIS CUSHING, A. F. . .	XI.	'95	117 Marlboro St., Boston, Mass.
GREEN, HENRY COPLEY, A.B. . . .	IV.	'98	354 Marlboro St., Boston, Mass.
GREGORY, JOHN HERBERT . . . . .	I.	'95	Winchester, Mass.
GROSH, JEROME EMIL . . . . .	IV.	'97	344 W. Woodruff Av., Toledo, O.
GROVER, WILLIAM ALBERT . . . . .	I.	'97	357 Summer St., Lynn, Mass.
GRUSH, HENRY GRANVILLE . . . .	VI.	'96	Draper Court, Dorchester, Mass.
GUPTILL, FRANK EDWARD . . . . .	VI.	'96	Winter Harbor, Me.
GUTTRIDGE, JAMES ADDISON . . . .	I.	'97	Garden St., Roslindale, Mass.
HALE, BENJAMIN, JR. . . . .	VI.	'98	Newburyport, Mass.
HALL, CHARLES HENRY, JR., A.B. . .	XIII.	'96	157 Montague St., Brooklyn, N. Y.
HALL, GAYLORD CROSSETTE . . . .	VI.	'96	40 Shepard St., Cambridge, Mass.
HALL, ROBERT GEORGE . . . . .	V.	'97	169 Wylie Ave, Pittsburgh, Pa.
HALL, WALTER ATWOOD . . . . .	VI.	'95	Wallingford, Conn.
HALL, WILLIAM MONTAGUE, F. B. E. .	IV.	'98	3 Waverly Ave., Newton, Mass.
HALL, WILLIAM THOMAS, S. A. E. . .	V.	'95	222 Marlboro St., Boston, Mass.
HALLARAN, JOHN SANFORD . . . . .	I.	'96	1203 Madison St., Toledo, Ohio.
HAMILTON, ALFRED STARR, A. T. A. .	IX.	'97	249 Lark St., Albany, N. Y.
HAMLEN, ELIZABETH PERKINS . . . .	VII.	'98	108 Beacon St., Boston, Mass.
HANKEY, ANTHONY, JR. . . . .	I.	'98	777 Centre St., Jamaica Pl., Mass.
HANNAH, FREDERICK AUGUSTUS . . .	II.	'95	9 Maverick St., Chelsea, Mass.
HAPGOOD, CHARLES WARREN, A. Y. .	V.	'96	252 Broadway, Everett, Mass.
HARAHAN, JAMES THOMAS, JR., S. X.	X.	'98	53 Fifty-third St., Chicago, Ill.
HARDON, MARGARET, S.B. . . . .	IV.	'97	28 Copley St., Newton, Mass.
HARDY, ROBERT SAMUEL, A. K. E. . .	VI.	'96	North High St., Bangor, Me.
HARKNESS, GEORGE EDWARD . . . .	I.	'96	20 Lynde St., Salem, Mass.
HARLOWE, FRANK LORIN . . . . .	IV.	'96	365 East St., Washington C. H., O.
HARMON, CHARLES FRANK . . . . .	IX.	'98	250 High St., Lowell, Mass.
HARRINGTON, JOSEPH . . . . .	II.	'96	Xenia, Ohio.
HARRIS, FREDERICK WALTER . . . .	XI.	'95	30 Spring St., Fitchburg, Mass.
HARRIS, RALPH . . . . .	VI.	'98	620 Miami St., Leavenworth, Kan.
HART, HARRY UTTER . . . . .	VI.	'97	308 Fourth St., Marietta, Ohio.
HARTWELL, HIRAM BRITTON . . . .	II.	'96	57 Palfrey St., Watertown, Mass.
HARWOOD, FRANKLIN BACHE . . . .	V.	'98	Marion, Mass.
HASKINS, CHARLES NELSON . . . . .	VIII.	'97	87 Chestnut St., N. Bedford, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
HASTE, JAMES HENRY . . . . .	V.	'96	463 Broadway, Lawrence, Mass.
HASTINGS, FRANK COOLIDGE . . . .	VIII.	'98	South Framingham, Mass.
HATCH, ISRAEL, JR. . . . .	X.	'97	Hanover, Mass.
HAVEN, HARRY MERRITT . . . . .	II.	'95	181 Wash'n St., Somerville, Mass.
HAWES, ALEXANDER G., S. A. E. . .	VI.	'98	Mills Building, San Francisco, Cal.
HAWKINS, EDGAR MARVIN . . . . .	II.	'97	Maple St., West Roxbury, Mass.
HAWLEY, HARVEY F. . . . .	I.	'96	Baldwinsville, N. Y.
HAYDEN, FRED LAWRENCE . . . . .	VI.	'98	28 Holt St., Fitchburg, Mass.
HAYDEN, GEORGE W., F. B. E. . . .	VI.	'95	493 Warren St., Roxbury, Mass.
HAYDEN, LEWIS ANDREWS, S. X. . .	II.	'97	1637 Sherman Ave., Denver, Colo.
HAYWARD, HARRISON WASHBURN . .	IX.	'95	79 Milton Ave., Hyde Park, Mass.
HAYWARD, ROY HOBART . . . . .	VI.	'97	18 Holborne St., Roxbury, Mass.
HAZARD, WILLIAM ABBOTT, S. X. . .	I.	'97	723 Third St., Des Moines, Ia.
HAZELTINE, JAMES EZRA . . . . .	VI.	'98	Warren, Penn.
HAZELTON, ISAAC BREWSTER . . . .	IV.	'96	Wellesley Hills, Mass.
HEALEY, BENJAMIN FRANCIS . . . .	VI.	'97	Dorchester, Mass.
HEALY, FREDERICK ELLIOTT . . . .	II.	'97	East Providence, R. I.
HEATHMAN, FRANK BOLTIN . . . . .	IV.	'97	Dayton, Ohio.
HEDGE, HENRY ROGERS . . . . .	IX.	'96	32 Court St., Plymouth, Mass.
HEDGE, WILLIAM RUSSELL . . . . .	IX.	'96	32 Court St., Plymouth, Mass.
HEERMANN, FREDERICK MORSE . . . .	II.	'97	11 Pelham St., Boston, Mass.
HEISSLER, EDWARD RUDOLPH . . . .	V.	'97	3017 Prairie Ave., Chicago, Ill.
HELLMAN, MAX . . . . .	VI.	'98	3004 Pine St., St. Louis, Mo.
HEMMINGS, FREDERICK JOHN . . . .	V.	'97	9 Sussex St., Boston, Mass.
HENDERSOIN, JAMES BUIST . . . . .	II.	'96	Ludlow, Mass.
HENRY, RALPH COOLIDGE . . . . .	VI.	'96	11 Garfield St., Watertown, Mass.
HERBST, JAMES BROWN . . . . .	IV.	'97	513 E. 14th St., Kansas City, Mo.
HERING, OSWALD CONSTANTIN, A. K. E.	IV.	'97	110 Newbury St., Boston, Mass.
HEWETT, JOSEPH . . . . .	VIII.	'96	32 Allen St., Brockton, Mass.
HEWINS, LYMAN FOSTER . . . . .	VI.	'98	353 Wash'n St., Dorchester, Mass.
HICKEY, WILLIAM JAMES . . . . .	IV.	'96	50 W. Cedar St., Boston, Mass.
HIGGINS, LOTHROP DAVIS . . . . .	V.	'98	Westboro, Mass.
HIGH, CARL STOUT . . . . .	VII.	'98	Arlington, Kan.
HILDRETH, EDWARD THEODORE . . . .	VI.	'96	357 S. Hope St., Los Angeles, Cal.
HILDRETH, JOHN LEWIS, JR., A. B., B. L.	I.	'96	14 Garden St., Cambridge, Mass.
HILL, GEORGE WILLIAM . . . . .	II.	'98	1041 Madison Ave., Covington, Ky.
HILLER, GEORGE FOLSOM . . . . .	VII.	'98	Clarendon Hills, Mass.
HILLIARD, HAVEN JOHNSTONE . . . .	V.	'98	Parley Vale, Jamaica Plain, Mass.
HINKLEY, BENJAMIN STEARNS . . . .	VI.	'98	38 Warren St., Woburn, Mass.
HITCHCOCK, ALBERT WHITE . . . . .	VI.	'98	Amherst, Mass.
HODGE, BENJAMIN, A. B. . . . .	III.	'97	Mt. Vernon, Wash.
HOISINGTON, EDWIN TILSON . . . . .	I.	'95	Garfield Ave., W. Roxbury, Mass.
HOLDREGE, HENRY ATKINSON, A. Y. .	VI.	'95	1618 S. 32d Ave., Omaha, Neb.
HOLLANDER, CHARLES EDWIN . . . . .	II.	'96	Millis, Mass.
HOLLIS, WALTER MUNROE . . . . .	VI.	'96	73 Newhall St., Lynn, Mass.
HOLMAN, GEORGE MIRICK, B. S., M. D.	VII.	'98	Fitchburg, Mass.
HOLMES, GEORGE ENNIS . . . . .	VI.	'98	Bradford, Mass.
HOOKE, STANLEY AGAR . . . . .	II.	'97	Main Ave., Avondale, Cincinnati, O.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
HOPKINS, ARTHUR THOMAS . . . .	XI.	'97	65 Flint St., E. Somerville, Mass.
HOPKINS, HEBER AUGUSTUS . . . .	IV.	'98	276 Pearl St., Cambridge, Mass.
HOPKINS, JAMES CLEVELAND . . . .	IV.	'95	Park Place, Jamaica Plain, Mass.
HORGAN, JOHN DENNIS . . . . .	VI.	'98	1 Leeds St., Dorchester, Mass.
HORMEL, HERMAN, S. A. E. . . . .	V.	'95	41 M St., South Boston, Mass.
HORTON, RALPH TUCKER . . . . .	VI.	'98	Foxboro, Mass.
HOSFORD, ROGER FULLER . . . . .	V.	'97	19 Burlington Ave., Boston, Mass.
HOSMER, GEORGE LEONARD . . . . .	I.	'97	315 Salem St., Woburn, Mass.
HOUSE, JOHN HENRY, JR. . . . .	IV.	'98	Salonica, Turkey.
HOWARD, ETHAN HENRY, A. T. . . .	VI.	'97	141 Chippewa St., Buffalo, N. Y.
HOWARD, FRANK ALLEN . . . . .	I.	'96	630 Belmont St., Brockton, Mass.
HOWARD, LEMUEL FREDERIC . . . .	VI.	'95	Ludlow, Mass.
HOWARD, SHELDON LEAVITT, F. B. E.	XIII.	'97	46 Somerset Ave., Taunton, Mass.
HOWARTH, GEORGE REUBEN, F. B. E.	II.	'95	3 Young Ave., Providence, R. I.
HOWE, FRANK IRVING . . . . .	V.	'97	Millis, Mass.
HOWE, GEORGE EDWARD . . . . .	I.	'95	22 Summer St., Somerville, Mass.
HOWE, JAMES LEWIS, PH.D. . . . .	III.	'98	Lexington, Va.
HOWE, JOSEPH MILTON . . . . .	I.	'96	918 Austin St., Houston, Tex.
HOWELL, MARY HARRIET . . . . .	VII.	'98	Southold, N. Y.
HOWES, BENJAMIN ALFRED . . . . .	VI.	'97	117 Marlboro St., Keene, N. H.
HOWLAND, CYRUS CHAPMAN . . . .	I.	'96	New Bedford, Mass.
HOWLAND, JOHN HASTINGS . . . . .	I.	'97	2 Wellington St., Boston, Mass.
HOWLAND, RICHARD STANLEY, O. E. .	VI.	'97	69 Manning St., Providence, R. I.
HUBBARD, CHESTER DIMOCK . . . .	VI.	'97	St. Paul, Minn.
HUBBARD, JESSE BRANCH . . . . .	IV.	'97	119 Fenn St., Pittsfield, Mass.
HUBBARD, WINFRED DEAN . . . . .	IV.	'98	Concord, Mass.
HUEY, WILLIAM QUEEN . . . . .	II.	'96	Easthampton, Mass.
HULTMAN, EUGENE CHRISTIAN . . . .	I.	'96	105 Washington St., Quincy, Mass.
HUMPHREYS, JOHN SANFORD, A. P. .	IV.	'97	23 East 47th St., New York, N. Y.
HUMPHREY, WALTER, A. K. E. . . .	II.	'97	Humphreys Pl., Dorchester, Mass.
HUNNEWELL, FREDERICK ALLEN . . .	II.	'97	6 Orchard St., Cambridge, Mass.
HUNT, HARRY BURLEIGH . . . . .	II.	'97	240 Macon St., Brooklyn, N. Y.
HUNT, HARRY DRAPER . . . . .	IX.	'97	North Attleboro, Mass.
HUNT, SAMUEL PARKER, A. B., K. K. K.	VI.	'95	747 Union St., Manchester, N. H.
HURD, BENJAMIN, JR., F. B. E. . . .	VI.	'96	Hurd Road, Brookline, Mass.
HURD, EDWARD LAURENCE, A. K. E. .	II.	'95	8 Butler St., Dorchester, Mass.
HURTER, CHARLES SWANBERG . . . .	III.	'97	21 Water St., Hyde Park, Mass.
HUSE, ARTHUR WOOD . . . . .	V.	'98	Newburyport, Mass.
HUTCHINSON, GEORGE ANTHONY . . .	XII.	'98	14 Wales St., Dorchester, Mass.
HUXLEY, EDWARD HALEY, F. B. E. .	II.	'95	Newton, Mass.
HYDE, CHARLES GILMAN . . . . .	XL	'96	Yantic, Conn.
IDE, LILLA DOWNES . . . . .	VII.	'98	Dorchester, Mass.
ILSLEY, JOHN PARKER, JR., A. P. . .	II.	'97	E. Walnut Lane, Germantown, Pa.
INGALLS, CHARLES HENRY . . . . .	VI.	'96	Danvers, Mass.
INGALLS, HARRY CREIGHTON . . . .	V.	'98	229 Ocean St., Lynn, Mass.
INGELL, HOMER PRESTON . . . . .	VI.	'96	116 Cohannet St., Taunton, Mass.
INNIS, GEORGE CLINTON . . . . .	X.	'98	443 Broadway, So. Boston, Mass.
IRISH, HARRY ADAMS . . . . .		'98	Barre, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
JACKSON, ALLEN WINCHESTER, A. K. E.	IV.	'97	467 Ashland Ave., St. Paul, Minn.
JACKSON, HENRY DOCKER . . . . .	VI.	'96	Hotel Oxford, Boston, Mass.
JACOBS, ELBRIDGE CHURCHILL . . . .	III.	'96	31 Mt. Vernon St., Malden, Mass.
JACOBY, ARELI HULL . . . . .	III.	'98	144 Franklin St., Wilkes Barre, Pa.
JAMES, WALTER HERMAN . . . . .	II.	'96	Portsmouth, N. H.
JAMESON, MINOR STORY . . . . .	I.	'96	Clinton Corners, N. Y.
JENNINGS, ARTHUR LEWIS . . . . .	II.	'97	Deep River, Conn.
JENSEN, HANS PETER . . . . .	I.	'97	106 Pearl St., Cambridge, Mass.
JOHNSON, BERTRAND HALEY . . . . .	IV.	'98	19 Phillips St., Lynn, Mass.
JOHNSON, CHARLES, A.M. . . . .	I.	'96	608 St. Louis St., Baton Rouge, La.
JOHNSON, EDWARD, JR., O. E. . . . .	IV.	'98	178 Marlboro St., Boston, Mass.
JOHNSON, ERNEST CONOVER . . . . .	VI.	'97	200 9th St., Milwaukee, Wis.
JOHNSTON, ROBERT, S. A. E. . . . .	X.	'96	202 Locust St., Harrisburg, Pa.
JONES, FREDERIC ALEXANDER . . . . .	VI.	'98	Needham, Mass.
JONES, FREDERICK HOOPER . . . . .	V.	'98	South Lincoln, Mass.
JONES, HAROLD WELLINGTON . . . . .	II.	'98	South Lincoln, Mass.
JONES, HOWARD KINGSLEY . . . . .	IV.	'96	815 Walnut St., Erie, Pa.
JONES, ISAIAH TOBEY, JR. . . . .	V.	'98	Sandwich, Mass.
JONES, SAMUEL FOSDICK, A. P. . . . .	VII.	'98	178 W. 7th St., Cincinnati, Ohio.
JONES, THEODORE INSLEE . . . . .	VI.	'96	149 Park Ave., Utica, N. Y.
JOSLIN, HERBERT STRATTON . . . . .	II.	'97	Northfield, Mass.
JOYCE, EDITH KINSLEY . . . . .	VII.	'97	15 Gorham Ave., Brookline, Mass.
KAUFMAN, IRVIN HAYES . . . . .	IV.	'98	University Road, Brookline, Mass.
KEAY, HERBERT ORESTES . . . . .	VII.	'98	Reading, Mass.
KEENE, ARTHUR SAMUEL . . . . .	VII.	'98	41 Murdock St., Brighton, Mass.
KEISKER, FRANK HENRY . . . . .	IV.	'97	535 E. Chestnut St., Louisville, Ky.
KEITH, WILLIAM HENRY . . . . .	VI.	'96	St. Augustine, Fla.
KELLEY, HORACE ALCINOUS . . . . .	VI.	'98	914 No. 6th St., Burlington, Iowa.
KELLEY, WILLIAM . . . . .	X.	'97	118 Mt. Washington St., Lowell,
KELLOGG, FRANKLIN MINER . . . . .	VI.	'98	Elmwood, Conn.
KEMBLE, PARKER HENRY . . . . .	XIII.	'96	293 Marlboro St., Boston, Mass.
KENDALL, FRANK WINSOR . . . . .	II.	'98	64 Brook St., Brookline, Mass.
KENDALL, FREDERIC MORRIS . . . . .	V.	'98	Framingham, Mass.
KENDALL, ROBERT EVERETT. . . . .	VII.	'98	Hyde Park, Mass.
KENISTON, JAMES AUGUSTUS . . . . .	VI.	'97	Middletown, Conn.
KENT, WILLIAM ALBERT . . . . .	I.	'96	625 E. Capitol St., Wash'ton, D. C.
KIMBALL, ELWELL FAIRFIELD . . . . .	I.	'96	2 Otis Pl., Newburyport, Mass.
KIMBALL, WALTER EVERARD . . . . .	V.	'98	Dorchester, Mass.
KIMBERLY, ALBERT ELLIOTT . . . . .	V.	'97	8 Maple Pl., Jamaica Plain, Mass.
KING, WILLIAM BRAMAN . . . . .	VI.	'97	6 Merlin St., Dorchester, Mass.
KLEINSCHMIDT, FREDERICK . . . . .	VI.	'95	122 May St., Cincinnati, Ohio.
KNIGHT, GEORGE HORACE . . . . .	II.	'97	Hudson, Mass.
KNIGHT, JOSEPH HYDE . . . . .	IX.	'96	Pittsfield, Mass.
KNIGHTS, ARTHUR ALPHRONUS . . . .	I.	'96	567 Lebanon St., Melrose, Mass.
KOCH, CARLETON SPAYTH . . . . .	VI.	'98	429 Richmond Ave., Buffalo, N. Y.
KOTZSCHMAR, HERMANN, JR. . . . .	II.	'95	7 Walker St., Portland, Me.
KRAMER, EDWARD DURST . . . . .	VII.	'98	315 W. Monument Ave., Dayton, O.
KUTTROFF, EDWIN . . . . .	II.	'98	17 E. 69th St., New York, N. Y.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
LACOUNT, HENRY OSGOOD, S.B. . . . .	VI.	'95	34 Day St., Somerville, Mass.
LAIGHTON, PAUL DE BLOIS . . . . .	IX.	'97	Portsmouth, N. H.
LAMB, AUGUSTUS CLARK, Δ. T. Δ. . . . .	X.	'97	19 Sacramento St., Camb'ge, Mass.
LAMBERT, JOHN HENRY . . . . .	VII.	'98	283 Pawtucket St., Lowell, Mass.
LAMBORN, LEEBERT LLOYD . . . . .	V.	'97	Main St., Alliance, Ohio.
LANE, EDWARD PERCY . . . . .	III.	'98	Manchester, Mass.
LANE, GEORGE MASON, Φ. B. E. . . . .	II.	'97	Francis St., Brookline, Mass.
LANGFORD, GRACE . . . . .		'98	Chiltonville, Plymouth, Mass.
LARRABEE, JOHN HEBER . . . . .	III.	'98	34 Foster St., Melrose, Mass.
LAWLER, GEORGE SHERRIFFS . . . . .	VI.	'97	259 Webster St., E. Boston, Mass.
LAWLEY, ARTHUR CROSBIE . . . . .	II.	'97	60 N St., South Boston, Mass.
LAWRENCE, CHARLES E., B.A., A. T. Ω. . . . .	VI.	'96	47 Chapel St., Charleston, S. C.
LAWRENCE, EARL EFFINGHAM . . . . .	V.	'98	Plymouth, Mass.
LAWRENCE, PERCIVAL F., Δ. K. E. . . . .	X.	'97	Windsor Hotel, Bangor, Me.
LAWRENCE, RALPH RESTIEAUX . . . . .	VI.	'95	34 Sumner St., Dorchester, Mass.
LAWS, EUGENE HIRAM . . . . .	V.	'96	Bedford, Mass.
LAWSON, GEORGE PARK, Θ. Ξ. . . . .	III.	'97	445 W. Sixth St., Cincinnati, O.
LEACH, ALBERT E., S.B. . . . .	V.	'97	Newtonville, Mass.
LEACH, WILLIAM HENRY, JR. . . . .	II.	'98	176 Macon St., Brooklyn, N. Y.
LEARNED, ERNEST FREEMAN . . . . .	VI.	'97	15 Irving St., Watertown, Mass.
LEARNED, WILLIS LATHROP . . . . .	V.	'98	15 Irving St., Watertown, Mass.
LEARY, JAMES FRANCIS . . . . .		'98	193 W. 8th St., S. Boston, Mass.
LEARY, WILLIAM GARDNER . . . . .	VI.	'96	147 Dorch'r St., S. Boston, Mass.
LE BARON, FREDERIC NELSON . . . . .	IV.	'97	7 Courtland St., Middleboro, Mass.
LEBOSQUET, MAURICE, Δ. Υ. . . . .	V.	'95	Columbus Ave., Haverhill, Mass.
LEE, ALEC WILKINS . . . . .	VI.	'97	Wauwatosa, Wis.
LEE, WALTER HENRY . . . . .	IV.	'98	Home City, Ohio.
LEE, WILLIAM LOUIS . . . . .	VI.	'97	1319 Hinman Ave., Evanston, Ill.
LEIGHTON, MARSHALL ORA . . . . .	VII.	'96	279 State St., Portland, Me.
LEIPER, JAMES GERHARD, JR. . . . .	II.	'98	1602 Master St., Philadelphia, Pa.
LELAND, WALTER SWIFT . . . . .	XIII.	'96	Saxonville, Mass.
LE MOYNE, CHARLES . . . . .		'98	93 Pleasant St., Brookline, Mass.
LEONARD, OWEN LEWIS . . . . .	V.	'98	Newton Centre, Mass.
LEWIS, JAMES EDWARD . . . . .	I.	'97	1357 Broad'y, W. Somerville, Mass.
LEWIS, RICHARD HENRY . . . . .	III.	'96	16 Gay Head St., Roxbury, Mass.
LIBBY, DORVILLE, JR. . . . .	VI.	'95	520 21st St., San Francisco, Cal.
LINCOLN, ALFRED VARNUM, JR. . . . .	II.	'95	32 Cordis St., Charlestown, Mass.
LINDENLAUB, ARMIN F., Δ. T. Δ. . . . .	VI.	'96	Arnstadt, Germany.
LIPPINCOTT, JESSE TREADWELL . . . . .	VI.	'98	Auburn & Highln'd Ave. Cincin'ti.
LITCHFIELD, PAUL WEEKS . . . . .	X.	'96	94 Howard Ave., Roxbury, Mass.
LITTLE, EDMUND COOK . . . . .	IX.	'98	77 Mansur St., Lowell, Mass.
LOCKE, CHARLES E. . . . .	III.	'96	3 Pearl St., Portsmouth, N. H.
LOCKWOOD, RHODES GREENE, Σ. X. . . . .	X.	'97	118 Beacon St., Boston, Mass.
LOGAN, ANDREW JEFFERS GARVEY . . . . .	I.	'95	Leadville, Colo.
LOMBARD, ALFRED WALDO . . . . .	VII.	'98	Wayland, Mass.
LONG, ZOURIE H. . . . .	VIII.	'98	Wilkes Barre, Mass.
LONNGREN, JOHN ERIK . . . . .	II.	'95	716 Main St., Waltham, Mass.
LOOMIS, HENRY MEECH . . . . .	V.	'97	Yokohama, Japan.
LOOTZ, ALF C. . . . .	I.	'96	116 St. Botolph St., Boston, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
LORD, CHARLES EDWARD . . . . .	VI.	'98	Somerville, Mass.
LORD, HERBERT IVORY . . . . .	VII.	'98	75 Howard Ave., Roxbury, Mass.
LORING, ERNEST JOHNSON . . . . .	IV.	'95	Somerville, Mass.
LOTHROP, THOMAS MARK . . . . .	II.	'95	1357 Beacon St., Brookline, Mass.
LOUD, RALPH WHITE . . . . .	I.	'97	Weymouth, Mass.
LOVEJOY, WALTER LIVINGSTON . . . . .	VI.	'98	90 Cottage St., Buffalo, N. Y.
LOVELAND, BENJAMIN ALPHEUS . . . . .	I.	'97	Chatham, Mass.
LUNT, ROBERT SOMERBY . . . . .	X.	'96	19 Pond St., Newburyport, Mass.
LYMAN, GEORGE WILLIAM . . . . .	VI.	'96	92 Washington Sq., Salem, Mass.
LYMAN, HERBERT . . . . .	VII.	'97	439 Lawrence St., Helena, Mont.
LYSAGHT, BELLA BERNADETTE . . . . .	V.	'96	6 McDonough St., Brooklyn, N. Y.
LYTHGOE, HERMANN CHARLES . . . . .	V.	'96	Winthrop, Mass.
MACLACHLAN, ANDREW DUGALD . . . . .	VIII.	'96	42 E. Foster St., Melrose, Mass.
MACRAE, LILLIAN JULIA . . . . .	VII.	'98	8 Georgia St., Roxbury, Mass.
MACRUM, JESSIE GLYDE . . . . .	VII.	'98	Pittsburgh, Penn.
MAGGI, ALFRED . . . . .	I.	'97	112 William St., Chelsea, Mass.
MAGUIRE, THOS. FRANCIS JAMES . . . . .	VI.	'97	157 Roxbury St., Boston, Mass.
MAHONEY, JOSEPH MICHAEL . . . . .	VI.	'96	21 Bailey St., Dorchester, Mass.
MANAHAN, JOHN HENRY . . . . .	VI.	'96	14 Newbury St., Boston, Mass.
MANN, FRED MAYNARD, B.C.E., $\Psi$ . T. . . . .	IV.	'95	608 E 27th St., Minneapolis, Minn.
MANNING, HORACE, A. K. E. . . . .	V.	'97	21 Blagden St., Boston, Mass.
MANSFIELD, EDWARD STACEY . . . . .	VI.	'96	Wakefield, Mass.
MANSFIELD, FRANK ERASTUS . . . . .	I.	'97	26 Cumberland St., Boston, Mass.
MANSON, EDMUND SEWALL, JR. . . . .	VIII.	'97	Scituate, Mass.
MARA, JOSEPH LAWRENCE . . . . .	VII.	'98	93 Pembroke St., Boston, Mass.
MARBLE, DWIGHT N., A.B., $\Phi$ . A. $\Theta$ . . . . .	VI.	'95	Owensboro, Ky.
MARBLE, LOUIS CORTRIGHT . . . . .	I.	'97	Swampscott, Mass.
MARCY, HENRY O., JR., A.B., A. K. E. . . . .	VII.	'98	180 Commonwealth Ave., Boston.
MARMON, WALTER CARPENTER . . . . .	I.	'95	Indianapolis, Ind.
MARSHALL, HERMAN WESTON . . . . .	VII.	'97	114 Highland St., Brockton, Mass.
MARSHALL, WILLIAM ADAMSON . . . . .	VII.	'98	Corey Hill, Brookline, Mass.
MASON, EARL POTTER . . . . .	II.	'97	136 Dyer St., Providence, R. I.
MASTERS, FRANK BIRD, S. A. E. . . . .	II.	'95	20 Morse St., Newton, Mass.
MATHESON, WILLIAM SCOTT . . . . .	II.	'98	Tatamagouche, N. S.
MATHEWS, GEORGE EUGENE . . . . .	II.	'98	1624 E. 3d St., Dayton, Ohio.
MATHEWS, MARY ELIZABETH . . . . .	VII.	'98	Painesville, Ohio.
MATTHES, FRANÇOIS EMILE . . . . .	I.	'95	Amsterdam, Holland.
MATTHES, GERARD HENDRIK . . . . .	I.	'95	Amsterdam, Holland.
MAYER, DURAND . . . . .	IV.	'98	54 W. 84th St., New York, N. Y.
MCALLISTER, ARTHUR, JR. . . . .	IV.	'96	The Lennox, Cleveland, Ohio.
MICALPINE, WILLIAM HORATIO . . . . .	XI.	'96	18 Abbott St., Lawrence, Mass.
MCCANN, FRANK GOODMAN . . . . .	II.	'96	Oak Park, Ill.
MCCARTHY, FRANCIS VINCENT . . . . .	II.	'97	28 Northend St., Peabody, Mass.
MCCARTHY, GEORGE HERBERT . . . . .	IX.	'97	West Fuller St., Dorchester, Mass.
MCCONNELL, WALTER GARDNER . . . . .	II.	'98	153 Blue Hill Av., Roxbury, Mass.
MCCORMICK, EDMUND BURKE . . . . .	II.	'97	Normal, Ill.
MCGANN, MALCOLM HOBART, A. $\Psi$ . . . . .	II.	'96	Pine Bluff, N. C.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
McILVAINE, JOHN ADDISON, JR., A.B.	IV.	'97	369 N. Main St., Washingt'n, Pa.
McINTYRE, JAMES SHERWOOD . . .	IX.	'98	69 Willis St., New Bedford, Mass.
McKAY, JAMES ALBERT . . . . .	I.	'96	135 Pembroke St., Boston, Mass.
McKIE, THOMAS . . . . .		'98	Orient Heights, E. Boston, Mass.
McMANUS, JAMES THOMAS REID . .	I.	'95	Memramcook, N. B.
McMILLAN, JOHN PRIMROSE . . . .	X.	'97	Petrolia, Ont.
MEAD, ERNEST EUGENE . . . . .	VI.	'96	495 Fourth St., So. Boston, Mass.
MELLUISH, JAMES GEORGE, F. A. O.	IX.	'96	207 N. Main St., Bloomington, Ill.
MERRELL, IRVING SEWARD . . . .	II.	'96	504 Onondaga St., Syracuse, N.Y.
MERRICK, CHARLES IRVING, A.B. . .	V.	'96	Holyoke, Mass.
MERRISS, GEO. FREDERIC CARPENTER	II.	'95	67 Park Pl., Pawtucket, R. I.
MERRYWEATHER, GEORGE EDMUND .	II.	'96	Forest Ave., Cincinnati, O.
MESERVE, CHARLES ARTHUR . . . .	V.	'95	87 Linden St., Allston, Mass.
METCALF, BRYCE, A. F. . . . .	VIII.	'98	59 E. 56th St., New York, N. Y.
MEYER, JOSEPH ANDREW, JR. . . .	IV.	'95	Boston, Mass.
MILLER, ARTHUR CLARENCE . . . .	II.	'97	Marblehead, Mass.
MILLER, FRANKLIN THOMAS . . . .	XIII.	'95	Auburndale, Mass.
MILLER, LEE ALSTON . . . . .	VI.	'98	1218 North H. Ave., Wash'n, D.C.
MILLER, SARAH ELIZABETH . . . .	VII.	'97	127 Pembroke St., Boston, Mass.
MILLIKEN, EDWARD NORRIS . . . .	VI.	'98	287 Pleasant St., N. Bedford, Mass.
MILLIKEN, SUMNER MOULTON . . . .	VIII.	'98	Saco, Me.
MILLS, PRESCOTT CALDWELL . . . .	VI.	'98	5 Court St., Arlington, Mass.
MINK, EDWARD . . . . .	VI.	'95	85 Elm St., W. Somerville, Mass.
MOAT, CHARLES PERKINS, X. F. . .	V.	'96	70 Middle St., Portsmouth, N. H.
MOEBS, JOSEPH JULIUS . . . . .	VIII.	'98	239 Eustis St., Boston, Mass.
MOMMERS, RICHARD . . . . .	V.	'98	South Manchester, Conn.
MONTETH, ARTHUR DAVID . . . .	I.	'97	Dedham, Mass.
MOORE, GEORGE . . . . .	III.	'95	63 Forest St., Fon du Lac, Wis.
MOORE, HUGH KELSEA . . . . .	V.	'97	68 Newhall St., Lynn, Mass.
MOORE, JOHN DENIS JOSEPH . . . .	II.	'95	275 Bay St., Springfield, Mass.
MOORE, MILTON ERNEST . . . . .	II.	'96	Arlington, Mass.
MORAN, GEORGE AUSTIN . . . . .	V.	'97	South Framingham, Mass.
MOREY, RICHARD . . . . .	I.	'97	Sedalia, Mo.
MORGAN, CARL LEON, E. A. E. . .	VI.	'97	100 Mt. Vernon St., Fitchb'g, Mass.
MORRICE, ARTHUR ANDERSON . . . .	VI.	'97	10 Redpath St., Montreal, Que.
MORRILL, EDWARD FRANCIS . . . .	V.	'98	80 Snow St., Fitchburg, Mass.
MORRILL, GUY LOUIS . . . . .	VI.	'96	35 Howard Ave., Roxbury, Mass.
MORRIS, CHARLES . . . . .	VI.	'96	The Presidio, San Francisco, Cal.
MORRIS, JONATHAN M. . . . .	XII.	'98	52 Harvest St., Boston, Mass.
MORSE, EVELYN EDNA . . . . .	VII.	'97	Moultrie Ave., Dorchester, Mass.
MORSE, LOUIS SHEPARD . . . . .	II.	'96	Somersworth, N. H.
MUTCH, EDWARD RAMOND . . . . .	II.	'97	155 Madison Ave., Covington, Ky.
MUDGE, CORA BELL . . . . .	VII.	'98	Jamaica Plain, Mass.
MUHLIG, JAMES FRED . . . . .	IV.	'98	40 North Main St., Natick, Mass.
MULHALL, HAROLD TOREY . . . . .	VI.	'97	9 Laurel St., Dorchester, Mass.
MUNROE, GEORGE SWEETSER . . . .	IX.	'97	88 Munroe St., Somerville, Mass.
MURPHY, CHARLES AUGUSTUS . . . .	VI.	'98	149 Howard Ave., Roxbury, Mass.
MURRAY, PARNELL SIDWAY . . . .	VII.	'98	2 Akron Place, Roxbury, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
NASH, ARTHUR CLEVELAND, A.B. . . . .	IV.	'97	Hobart College, Geneva, N. Y.
NEBELL HERREROS, ALEJANDRO, B.S. . . . .	VI.	'97	Santiago, Chile.
NEEDHAM, SARAH J. C. . . . .	VII.	'98	Hotel Elliot, Roxbury, Mass.
NESBIT, ARTHUR FLEMING, A.B. . . . .	V.	'95	Milton, Pa.
NESBIT, HARRY C., Σ. X. . . . .	VII.	'98	Washington, D. C.
NEVIN, CHARLES KIRKLAND BARKER . . . . .	IV.	'96	71 Gardner St., Allston, Mass.
NEWELL, HERBERT DAMON . . . . .	I.	'96	Hampden, Mass.
NEWELL, JOHN LOUIS . . . . .	X.	'95	241 Walnut Ave., Roxbury, Mass.
NEWHALL, CHARLES SAUNDERSON . . . . .	III.	'96	74 Broad St., Lynn, Mass.
NEWHALL, HENRY BORDEN, JR. . . . .	IV.	'98	144 E. 7th St., Plainfield, N. J.
NEWTON, HERBERT BOYDEN, Σ. A. E. . . . .		'98	150 Elm St., Holyoke, Mass.
NICHOLS, GEORGE MONROE GAGE . . . . .	V.	'98	Haverhill, Mass.
NICKERSON, CLARENDON . . . . .	X.	'97	16 Courtland St., Bridgeport, Ct.
NOBLE, HOWARD AGNEW, X. Φ. . . . .	II.	'97	5716 Howe St., Pittsburgh, Pa.
NOBLE, RAYMOND . . . . .	VII.	'98	Granville, Mass.
NOLTE, JULIUS . . . . .	V.	'98	793 Centre St., Jamaica Plain, Mass.
NORMAN, LIONEL . . . . .	VI.	'97	62 Cypress St., Brookline, Mass.
NORRIS, ALBERT PERLEY . . . . .	V.	'97	674 Main St., Cambridgep't, Mass.
NORRIS, GRACE ADELAIDE . . . . .	VII.	'96	129 Chestnut St., Chelsea, Mass.
NORRIS, REGINALD, Δ. K. E. . . . .	VI.	'96	Brussels, Belgium.
NORTHUP, EDWIN SAUNDERS . . . . .	VI.	'96	Pensacola, Fla.
NORTON, ALICE PELOUBET, A.B. . . . .	V.	'96	Auburndale, Mass.
NORTON, EDGAR WARNER, Σ. A. E. . . . .	IV.	'98	7 Oberlin St., Worcester, Mass.
NOYES, JOSEPH COBHAM . . . . .	VI.	'98	394 Danforth St., Portland, Me.
O'HARA, ANNA FANNIE . . . . .	VII.	'97	Sp'g Garden St., Dorchester, Mass.
OLIN, EDWIN READ . . . . .	X.	'97	29 St. James St., Roxbury, Mass.
ORR, HUGH . . . . .	IV.	'97	207 Court St., Brockton, Mass.
OSGOOD, EDWIN PUTNAM . . . . .	XI.	'97	Grampian Way, Dorchester, Mass.
OSGOOD, HENRY DOUGLAS . . . . .	XI.	'97	Grampian Way, Dorchester, Mass.
OWEN, FRED BROWN . . . . .	VI.	'96	Jewett City, Conn.
OWENS, JOSEPH EDWARD . . . . .		'98	142 Boylston St., Brookline, Mass.
PACKARD, LEONARD WARREN . . . . .	VII.	'98	229 Bay St., Taunton, Mass.
PAGE, CHARLES BARNARD . . . . .	VI.	'98	197 N. Main St., Concord, N. H.
PAGE, WALTER Δ. Ψ. . . . .	II.	'97	253 Beacon St., Boston, Mass.
PAIGE, ELLWOOD BRYANT . . . . .	III.	'98	50 Chatham St., Lynn, Mass.
PAINE, CHARLES BODWELL, Σ. X. . . . .	IV.	'97	76 State St., Augusta, Me.
PALMER, JOSEPH PORTER, Φ. Γ. Δ. . . . .	VI.	'96	New York, N. Y.
PALMER, LYNDON CONSTANTINE . . . . .	II.	'98	84 Cornelia St., Utica, N. Y.
PARDONNER, JOHN HALL, JR. . . . .	IV.	'98	40 Tecumseh St., Dayton, Ohio.
PARK, FRANKLIN ATWOOD . . . . .	II.	'95	50 White St., Taunton, Mass.
PARKER, ANNE MARY . . . . .	VII.	'98	69 Newbury St., Boston, Mass.
PARKER, JOHN HARLESTON, A.B. . . . .	IV.	'95	53 Oxford St., Cambridge, Mass.
PARKER, WILL ROGERS . . . . .	VI.	'97	109 Islington St., Portsm'th, N. H.
PARKER, WILLIAM DENISE . . . . .	VI.	'97	Osborne Road, Brookline, Mass.
PARKER, WILLIAM T., JR., Δ. Ψ. . . . .	V.	'97	Groveland, Mass.
PARKER, WINTHROP DANA . . . . .	IV.	'95	Reading, Mass.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
PARMELEE, CHARLES LESTER . . . .	I.	'95	1717 Jefferson St., Toledo, Ohio.
PARSONS, ARCHIBALD LIVINGSTONE .	I.	'97	Derry, N. H.
PARSONS, CHESTER HENRY . . . .	II.	'97	21 Winthrop St., Marlboro, Mass.
PARSONS, WILLIS EVERETT . . . .	VI.	'97	32 Middle St., Gloucester, Mass.
PARTRIDGE, WELLES MORTIMER . .	VI.	'97	Putnam, Conn.
PATTEN, WILLIAM FLETCHER . . . .	VI.	'95	203 Savin Hill Av., Dorch'r, Mass.
PATTISON, WILLIAM EDSON . . . .	IX.	'97	Oak Lane, Pa.
PAUL, CHARLES HOWARD . . . . .	I.	'96	63 Beach St., Linden, Mass.
PAULY, KARL ALMON . . . . .	VI.	'96	21 Hall St., Somerville, Mass.
PEASE, CHARLES HENRY . . . . .	VII.	'98	Marlborough, N. H.
PEAVEY, LEROY DEERING . . . . .	VI.	'98	Exeter, N. H.
PECHIN, JOHN SHELLEY, S. X. . . .	II.	'95	587 Prospect St., Cleveland, Ohio.
PECKHAM, FRANK IRVING . . . . .	V.	'98	8 Weybosset St., Fall River, Mass.
PEIRCE, VERNON MARSHALL . . . .	I.	'96	169 W. Newton St., Boston, Mass.
PENDELL, CHARLES WILLIAM . . . .	V.	'98	Cleburne, Tex.
PENNELL, WALTER OTIS . . . . .	VI.	'96	Exeter, N. H.
PEREZ, FAUSTINO APOLONIO . . . .	III.	'95	Parras-Coahuila, Mex.
PERLEY, CLARENCE WARNER . . . .	VII.	'96	35 Hamilton Ave., Lynn, Mass.
PERLEY, WILLIAM MARSHALL . . . .	V.	'98	74 Riverside Ave., Medford, Mass.
PERRY, FRANK BRIDGHAM . . . . .	VI.	'98	60 Laurel Hill Ave., Norwich, Ct.
PETTEE, CHARLES LESLIE WIGHT . .	V.	'97	Newtonville, Mass.
PHILBRICK, SHIRLEY SEAVEY . . . .	V.	'98	Rye Beach, N. H.
PHILLIPS, FRANK NICHOLS . . . . .	VI.	'97	Providence, R. I.
PIERCE, MYRON EVERETT, S. A. E. .	I.	'96	Watertown, Mass.
PIKE, OTTO SAMUEL . . . . .	II.	'97	Morris, Conn.
PILLSBURY, GEORGE BIGELOW, Δ T. Δ.	IV.	'98	Lowell, Mass.
PILLSBURY, JOEL HORACE . . . . .	I.	'96	Bridgewater, Mass.
PINGREE, EDWIN DANIEL . . . . .	II.	'96	259 Andover St., Lawrence, Mass.
PLUMER, FRED CALDWELL . . . . .	VI.	'98	93 High Street, Somerville, Mass.
PLUMMER, LAURA SUSANNA . . . .	VII.	'98	157 Princeton St., E. Boston, Mass.
POOLE, CAROLINE NICHOLSON . . . .		'98	3607 Wash'n St., Jamaica Pl., Mass.
POORE, VOLNEY LEROY . . . . .	VI.	'97	154 Fenno St., Revere, Mass.
POPPENHUSEN, HERMAN ADOLPH . .	VI.	'96	1005 Forest Ave., S. Evanston, Ill.
PORTER, ARTHUR FELIX . . . . .	VII.	'98	16 Neponset Av., Hyde Park, Mass.
PORTER, RUSSELL WILLIAM . . . .	IV.	'96	Springfield, Vt.
PORTNER, ALWIN OTTO . . . . .	III.	'98	1104 Vermont Ave., Wash'n, D. C.
PORTNER, EDWARD GEORGE . . . .	X.	'97	1104 Vermont Ave., Wash'n, D. C.
PORTNER, ROBERT FRANCIS . . . .	VI.	'96	1104 Vermont Ave., Wash'n, D. C.
POTTER, WILLIAM CHAPMAN, Δ. K. E.	III.	'97	4832 Madison Ave., Chicago, Ill.
POWERS, WALTER CHAMPION . . . .	X.	'95	116 Pearl St., Springfield, Mass.
PRATT, GILBERT HOMER . . . . .	V.	'97	31 Franklin St., Chelsea, Mass.
PRATT, ROBERT WINTHROP, JR. . .	IV.	'98	96 Rockview St., Jamaica Pl., Mass.
PRESSEY, HARRY ALBERT, B.S. . . .	I.	'96	Lewiston, Me.
PRESTON, FRANK HERBERT . . . . .	I.	'97	New Ipswich, N. H.
PRICHARD, EDWARD HUMPHRIES, JR.	IV.	'96	Wyoming, Ohio.
PRIEST, BENSON BULKELEY . . . .	IV.	'98	Littleton, Mass.
PRIEST, GEORGE WESLEY, A.B. . . .	V.	'96	Watertown, Mass.
PRIME, HAROLD AUGUSTUS . . . . .	VI.	'97	434 Wash'n St., Brighton, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
PROSSER, REAY . . . . .	XI.	'98	3801 Pine Boulevard, St. Louis, Mo.
PUGH, ACHILLES HENRY . . . . .	X.	'97	E. Walnut Hills, Cincinnati, O.
PURINTON, CHARLES FESSENDEN . . . . .	VI.	'97	South Easton, Mass.
PUTNAM, JOHN LUTHER . . . . .	VI.	'96	Houlton, Me.
PUTNAM, SALMON W., JR., S. A. E. . . . .	II.	'97	107 South St., Fitchburg, Mass.
RANSOME, BERTRAM COLEBY . . . . .	II.	'97	Callander, Scotland.
RAWSON, HARRY DUSTAN, S. X. . . . .	IV.	'96	Des Moines, Iowa.
RAYNOLDS, JAMES WALLACE . . . . .	III.	'96	Las Vegas, N. Mex.
RECORDS, FRANCIS BARRY, JR. . . . .	I.	'97	Arlington Heights, Mass.
REED, WALTER WILSON . . . . .	VI.	'95	38 Floyd St., Waltham, Mass.
REED, WILLIAM EDGAR . . . . .	VI.	'97	4609 Centre Ave., Pittsburgh, Pa.
REYNOLDS, ROBERT DUNCAN, S.B. . . . .	I.	'95	45 Orchard St., Jamaica Pl., Mass.
RHODES, WILLIAM STEVENS . . . . .	XII.	'95	2 Knight's Ct., Jamaica Pl., Mass.
RICE, HARRY JONATHAN* . . . . .	V.	'96	3733 Pine St., St. Louis, Mo.
RICE, WILLIAM JACKSON . . . . .	IX.	'95	Leominster, Mass.
RICHARDS, FREDERICK LEONARD . . . . .	X.	'95	217 Summer St., Somerville, Mass.
RICHARDS, LOUIS JEROME . . . . .	XI.	'97	269 Broadway, Norwich, Conn.
RICHARDSON, DANIEL ARTEMAS . . . . .	II.	'96	424 Mass. Av., Boston, Mass.
RICHARDSON, EDWARD BRIDGE, Δ. Ψ. . . . .	VII.	'98	155 Beacon St., Boston, Mass.
RICHMOND, HENRY PARSONS . . . . .	III.	'98	Pawtucket Av., E. Providence, R. I.
RICKEY, WALTER JOSIAH . . . . .	II.	'95	Athol Centre, Mass.
RILEY, JOSEPH CAINS, JR. . . . .	IV.	'98	Roslindale, Mass.
RITCHIE, EDWARD WARREN . . . . .	IV.	'97	Newton Highlands, Mass.
ROAF, EDWARD WALTER . . . . .	I.	'97	16 Boardman, Newburypt, Mass.
ROBERTS, EDWIN HUGHES . . . . .	VI.	'95	1632 California St., Denver, Colo.
ROBERTS, THOMAS MAYO, A.B. . . . .	VI.	'97	The Dalles, Oregon.
ROBERTSON, FREDERICK McNAUGHTON . . . . .	III.	'98	South Framingham, Mass.
ROBINSON, ELMER HOLBROOK . . . . .	VI.	'96	Reading, Mass.
ROBINSON, HENRY RAYBURN . . . . .	IX.	'98	407 N. Tenth St., Richmond, Ind.
ROBINSON, JOHN TILDEN, JR. . . . .	VII.	'98	33 Childs St., Hyde Park, Mass.
ROBINSON, LAFOREST GEORGE . . . . .	VI.	'97	181 Margaret St., Plattsburgh, N. Y.
ROBINSON, WILLIAM ATTMORE, JR. . . . .	VI.	'98	84 Hawthorn St., N. Bedford, Mass.
ROCKWELL, GEORGE ARNOLD, Δ. T. Δ. . . . .	X.	'95	The Warren, Roxbury, Mass.
ROCKWELL, JOHN ARNOLD, JR., Θ. Ξ. . . . .	VII.	'96	42 Rockwell St., Norwich, Conn.
ROGERS, FRANK HENRY . . . . .	I.	'96	Newburyport, Mass.
ROGERSON, JOHN RUSSELL . . . . .	I.	'97	Mansfield, Mass.
ROLFE, HENRY PETTINGELL . . . . .	I.	'97	27 High St., Newburyport, Mass.
ROOKE, WARREN AUGUSTUS . . . . .	IV.	'97	278 E. Main St., Meriden, Conn.
ROOT, WILLIAM LACY . . . . .	X.	'96	11 Church St., Pittsfield, Mass.
ROSENGARTEN, FRANCIS ALBERT . . . . .	VI.	'96	Louisville, Ky.
ROURKE, LOUIS KEEGAN . . . . .	I.	'95	Abington, Mass.
ROYCE, JAMES CHARLES . . . . .	II.	'97	Davenport, Ont.
RUCKGABER, ALBERT FELIX . . . . .	VI.	'96	373 Carlton Av., Brooklyn, N. Y.
RUMERY, RALPH ROLLINS, Θ. Ξ. . . . .	XI.	'98	380 Danforth St., Portland, Me.
RUSH, WILLIAM REDD . . . . .	VIII.	'98	Larned, Kans.
RUSS, ERNEST FRANK . . . . .	V.	'98	193 W. Brookline St., Boston, Mass.
RUSSELL, ANDREW LE BARON, Δ. Φ. . . . .	IX.	'96	Mt. Vernon Barracks, Ala.

\* Died December 28, 1894.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
RUSSELL, BENJAMIN FRANKLIN W. . .	VII.	'98	Concord Junction, Mass.
RUSSELL, WALTER BASFORD. . . .	II.	'97	9 Kearsarge Av., Roxbury, Mass.
RUST, HAROLD NORWOOD . . . .	VI.	'95	50 Northampton, Wilkes Barre, Pa.
RUTHERFORD, EUGENE WHITE . . .	II.	'97	231 Jefferson Ave., Brooklyn, N.Y.
RUTHERFORD, NORMAN FRANKLIN . .	VI.	'96	Bathurst, N. S. W., Australia.
SADTLER, SAMUEL SCHMUCKER, $\Phi. K. \Psi.$	V.	'95	204 N. 34th St., Philadelphia, Pa.
SAGER, LAWRENCE KINGSLEY . . .	VI.	'96	116 School St., Somerville, Mass.
SANBORN, CLIFFORD BARTLETT . . .	IX.	'95	Norwood, Mass.
SANDERSON, NATHAN HERBERT . . .	I.	'96	111 Lincoln St., Waltham, Mass.
SARGEANT, HARRY BROOKS, $X. \Phi.$ . .	IV.	'98	180 W. 59th St., New York, N. Y.
SARGENT, ALBERT ELLWOOD . . .	III.	'98	Belmont, Mass.
SARGENT, ALLSTON . . . . .	VII.	'98	South Brewer, Me.
SARGENT, EZEKIEL COLBY . . . .	I.	'97	4 Elm St., Quincy, Mass.
SAWIN, LUTHER ROBINSON . . . .	V.	'96	34 Robins St., Waltham, Mass.
SAWTELLE, HARRY FRANCIS . . . .	I.	'97	12 Magazine St., Cambridg't, Mass.
SAWTELLE, WILLIAM OTIS, $\Delta. K. E.$ .	VIII.	'97	32 Penobscot St., Bangor, Me.
SAWYER, JAMES COWAN, $A. B.$ . . .	II.	'97	Dover, N. H.
SAX, MORITZ . . . . .	IV.	'96	Walnut Hills, Cincinnati, Ohio.
SCHALLER, FREDERICK FRANCIS . . .	VI.	'95	South Natick, Mass.
SCHMITZ, FRANK CURTIS, $\Sigma. A. E.$ . .	I.	'95	127 5th Ave., Clinton, Iowa.
SCHOENTGEN, EDWARD PHILIPP . . .	IV.	'95	703 S. 6th St., Council Bluffs, Ia.
SCHROEDER, ERNEST HERMAN . . .	XI.	'98	1412 So. 10th St., Omaha, Neb.
SCHUTTLE, CARL, $X. \Phi.$ . . . .	II.	'97	287 W. Adams St., Chicago, Ill.
SCHWARTZ, DAVID . . . . .	V.	'97	10 Wall St., Boston, Mass.
SCOFIELD, DONALD CLEVELAND, $\Delta. Y.$	IV.	'96	338 Erie St., Cleveland, Ohio.
SCOTT, HENRY FRANCIS . . . . .	V.	'98	38 Prospect St., Brockton, Mass.
SCOTT, WALTER OSGOOD, $\Delta. Y.$ . . .	V.	'95	Westminster St., Providence, R.I.
SCOVEL, JOHN COMBS, JR. . . . .	II.	'96	883 Winthrop Ave., Chicago, Ill.
SEARS, HENRY KENT . . . . .	IX.	'96	Danvers, Mass.
SEARS, JOSEPH HOMER . . . . .	XI.	'98	East Dennis, Mass.
SEARS, MORTIMER ANDREWS . . . .	III.	'96	79 Westland Ave., Boston, Mass.
SEIDENSTICKER, LEWIS JEROME . . .	II.	'98	954 Inman St., Cambridge, Mass.
SELLEW, WILLIAM . . . . .	II.	'97	Avondale, Cincinnati, O.
SHAW, ALBION WALKER . . . . .	VI.	'97	12 Tappan St., Melrose, Mass.
SHAW, ALFRED VICTOR . . . . .	IV.	'95	Newton Highlands, Mass.
SHEAFE, HARRY JONES, $\Sigma. X.$ . . .	III.	'95	Queen Anne Hill, Seattle, Wash.
SHEDD, ALBERT RIX . . . . .	XII.	'98	Silver Creek, N. Y.
SHEPARD, BENJAMIN HALSTED, $X. \Phi.$ .	IV.	'96	78 Harrison St., E. Orange, N. J.
SHEPARD, FRANCIS HENRY . . . .	VI.	'97	Mason City, Ia.
SHEPARD, GEORGE FREDERIC, JR., $\Phi. B. E.$	IV.	'95	18 Waumbeck St., Roxbury, Mass.
SHEPPARD, ROBERT KIMBALL, $\Delta. K. E.$	X.	'95	Newton, Mass.
SHERIDAN, RICHARD GEORGE B., $\Sigma. X.$	XIII.	'95	1364 Euclid Ave., Cleveland, Ohio.
SHERMAN, EDWARD CLAYTON . . . .	IV.	'98	1 Berkeley St., Cambridge, Mass.
SHERMAN, HENRY ARTHUR . . . .	III.	'96	491 Mass. Ave., Boston, Mass.
SHERMAN, JOHN CARLTON, $\Delta. Y.$ . . .	VI.	'95	Bucksport, Me.
SHOOK, JAMES WARNER, $\Theta. \Xi.$ . . .	III.	'98	219 N. Spence St., Nashville, Tenn.
SHUMAN, JESSE WYMAN, $\Delta. T. \Delta.$ . .	VI.	'97	1401 Chicago Av., Min'polis, Minn.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
SICKMAN, JAMES FRANCIS . . . .	VI.	'98	156 Pine St., Holyoke, Mass.
SIMMONS, ALFRED LESLIE . . . .	I.	'95	South Braintree, Mass.
SKINNER, CHARLES JERNEGAN . . . .	V.	'98	Ottawa, Kansas.
SLADE, CONRAD HENSLER, A. B. . . .	IV.	'96	Chestnut Hill, Mass.
SLAVENS, JOHN HEBER . . . . .	IX.	'98	Kansas City, Mo.
SLOAN, ALFRED PRITCHARD, JR., A. T.	VI.	'95	240 Garfield Pl., Brooklyn, N. Y.
SMALL, JOHN SANFORD . . . . .	VI.	'98	31 8th St. So., Minneapolis, Minn.
SMALLEY, FRANK NEWELL . . . . .	V.	'96	Westboro, Mass.
SMETTERS, SAMUEL TUPPER, PH.B. . .	I.	'96	Waverly, Ill.
SMITH, CHARLES FRANKLIN . . . . .	I.	'97	1512 R. St., N. W., Wash'n, D. C.
SMITH, CHARLES HENRY . . . . .	VI.	'98	107 Warren St., Charlestown, Mass.
SMITH, FRED HASKELL . . . . .	X.	'96	Hudson, N. H.
SMITH, GODFREY LEWIS . . . . .	V.	'98	91 Mt. Vernon St., Boston, Mass.
SMITH, GRANVILLE, A. T. . . . .	VI.	'98	2137 F. St., Washington, D. C.
SMITH, HERBERT EDWARDS . . . . .	IV.	'96	19 Liberty St., Gloucester, Mass.
SMITH, HERBERT ELMER . . . . .	VI.	'95	9 Leyland St., Dorchester, Mass.
SMITH, HORACE TILDEN . . . . .	III.	'98	East Bridgewater, Mass.
SMITH, HOWARD EVERETT . . . . .	XI.	'96	Framingham, Mass.
SMITH, JAMES HENRY ANDREWS . . .	V.	'98	26 Market St., Newburyport, Mass.
SMITH, JAMES WILFRED . . . . .	XIII.	'97	85 Concord St., Lawrence, Mass.
SMITH, OREN BARRON, JR. . . . .	III.	'97	Northampton, Mass.
SMITH, PERCY MERRIHEW . . . . .	II.	'97	Rockland, Mass.
SMITH, PETER JAY, JR. . . . .		'98	27 Boylston Av., Jamaica Pl., Mass.
SMITH, THEODORE BROOKS . . . . .	VI.	'98	39 Hawthorne Ave., Cleveland, O.
SMITH, WILLIAM DOUGLAS . . . . .	II.	'96	Exeter, Ont.
SMITH, WILLIAM FRANKLIN . . . . .	II.	'97	3 White St., No. Cambridge, Mass.
SMITH, WILLIAM GRAVES . . . . .	I.	'96	Mansfield, Mass.
SMYSER, ALBERT ERNEST . . . . .	II.	'96	6 Wellington Ter., Brookline, Mass.
SMYSER, FREDERIC WILLIAM . . . .	II.	'96	6 Wellington Ter., Brookline, Mass.
SMYSER, JAMES SWETT, A. K. E. . . .	II.	'95	6 Wellington Ter., Brookline, Mass.
SNELL, ELMER ALVIN . . . . .	II.	'96	Holbrook, Mass.
SNELLING, HOWARD . . . . .	I.	'98	South Lincoln, Mass.
SNOW, ARTHUR EUGENE . . . . .	III.	'97	St. George, Utah.
SNYDER, JOHN LOVETT . . . . .	IV.	'96	2613 Pine St., St. Louis, Mo.
SOLEY, JOHN CORMACK . . . . .	I.	'97	Chelsea, Mass.
SOUTHWORTH, GEORGE BLAIR . . . .	V.	'98	North Brookfield, Mass.
SPAULDING, FRANK ALGER . . . . .	VIII.	'98	West Stockbridge, Mass.
SPEAR, WALTER EVANS . . . . .	XI.	'97	53 Cambridge St., Lawrence, Mass.
SPIESS, ARTHUR DOUGLAS . . . . .	IV.	'97	17 E. 63d St., New York, N. Y.
SPRING, RUSSELL CLARK . . . . .	IV.	'97	Newton Lower Falls, Mass.
SPRINGER, ERNEST ROGER . . . . .	VI.	'98	67 Arlington St., Newton, Mass.
STAMP, CHARLES MARCUS . . . . .	II.	'96	Mt. Vernon, Ohio.
STAPLES, WILLIAM DEERING, S. A. E.	VI.	'97	645 A Congress St., Portland, Me.
STARBUCK, GEORGE FRANKLIN . . . .	II.	'96	43 Lexington St., Waltham, Mass.
STEARNS, WALTER MULLIKEN, P. B. E.	VI.	'96	478 Main St., Waltham, Mass.
STEBBINS, CHARLES BOWLES . . . .	XIII.	'97	30 Day St., W. Somerville, Mass.
STEFFENS, WILLIAM FREDERICK . . .	XII.	'98	137 W. Concord St., Boston, Mass.
STEINER, KLAUS JUNIOR . . . . .	III.	'97	58 Washington St., Allegheny, Pa.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
STEVENS, GORHAM PHILLIPS . . . .	V.	'98	26 Gray St., Cambridge, Mass.
STEVENS, HAROLD CONVERSE . . . .	I.	'96	Braintree, Mass.
STEVENS, WALTER FREDERICK . . . .	II.	'95	Forest St., Newton Highl'ds, Mass.
STEVENS, WILLIAM WENTWORTH . . . .	III.	'98	268 Summer St., Lynn, Mass.
STICKNEY, CHARLES ALPHEUS . . . .		'98	St. Paul, Minn.
STICKNEY, DELIA . . . . .	V.	'96	19 Trowbridge St., Camb'ge, Mass.
STICKNEY, JOSEPH WHITE . . . . .	VI.	'96	Somersworth, N. H.
STILES, PERCY GOLDTHWAIT . . . .	VII.	'97	168 Walnut St., Newtonville, Mass.
STILLINGS, SAMUEL WARREN . . . .	VI.	'98	205 St. Botolph St., Boston, Mass.
STONE, CHARLES HENRY HOWARD . . . .	V.	'96	465 Centre St., Newton, Mass.
STONE, ESTHER . . . . .	IV.	'96	280 Waterman St., Providence, R.I.
STOUGHTON, BRADLEY, PH.B. . . . .	III.	'95	339 Prospect St., New Haven, Ct.
STOWELL, JEAN HENRY . . . . .	VIII.	'98	15 Lincoln St., Charlestown, Mass.
STRATTON, GEORGE EBER . . . . .	I.	'96	Shelburne Falls, Mass.
STRENG, LEWIS STARR . . . . .	V.	'98	Breckenridge St., Louisville, Ky.
STRICKLAND, WM. RANDOLPH, A. Y. . . .	VIII.	'98	Walnut St., Brookline, Mass.
STRICKLER, EMERSON H., A.B. . . . .	V.	'96	Waynesboro, Pa.
STRONG, EDWARD FITCH . . . . .	II.	'97	Colchester, Conn.
STRONG, MARY BAKER . . . . .	XII.	'96	258 Beacon St., Boston, Mass.
STUDLEY, IRA GUILD . . . . .		'98	Rockland, Mass.
STURM, MEYER JOSEPH . . . . .	IV.	'96	13 Lane Place, Chicago, Ill.
STURTEVANT, EDWARD, O. E. . . . .	IX.	'97	1 Monmouth St., Longwood, Mass.
STURTEVANT, JOSEPH LEWIS . . . . .	II.	'96	Adams St., Quincy, Mass.
SULLIVAN, HENRY HOWARD . . . . .	IV.	'98	98 Foster St., Brighton, Mass.
SUMNER, EDWARD ALLEYNE, JR., A. Y. . . .	X.	'97	821 Jefferson Ave., Detroit, Mich.
SUMNER, GEORGE WILLIAM . . . . .	VI.	'96	635 Georgia Ave., Omaha, Neb.
SWAN, ALMIRA FRENCH . . . . .	VII.	'96	1058 Adams St., Dorchester, Mass.
SWAN, CHARLES MAYO . . . . .	VII.	'97	6 Sanford St., Mattapan, Mass.
SWAN, CLIFFORD MELVILLE . . . . .	III.	'98	5 Harvard Ave., Brookline, Mass.
SWAN, RODOLPHUS ASHLEY S. A. E. . . .	VII.	'97	110 Fourth St., New Bedford, Mass.
SWASEY, ALBERT LORING . . . . .	V.	'98	146 High St., Taunton, Mass.
SWEET, EVERELL SHIPLEY . . . . .	V.	'98	42 Appleton St., Malden, Mass.
SWEETSER, CHARLES HERBERT . . . . .	I.	'97	Wakefield, Mass.
SWIFT, CHARLES WILLISTON . . . . .	VII.	'98	Provincetown, Mass.
SWIFT, ROBERT WESSELHOEFT, A. F. . . .	II.	'95	886 St. Nicholas Ave., New York.
SWIFT, WILLIAM EVERETT, F. Y. . . . .	I.	'95	West Hartford, Conn.
SWOPE, GERARD . . . . .	VI.	'95	3530 Olive St., St. Louis, Mo.
TAFT, CHARLES CHESTER . . . . .	X.	'95	3607 Baring St., Philadelphia, Pa.
TAFT, HARRISON S., B.P. A. A. F. . . .	II.	'95	102 Waterman St., Providence, R.I.
TALLMADGE, THOMAS EDDY . . . . .	V.	'98	1631 Hinman Ave., Evanston, Ill.
TAPPAN, FREDERIC . . . . .	V.	'98	171 Newbury St., Boston, Mass.
TAPPAN, LEWIS HOOPER . . . . .	II.	'96	Manchester, Mass.
TAYLOR, EDWARD MOLINEUX . . . . .	VIII.	'98	66 Garden St., Poughkeepsie, N.Y.
TAYLOR, JOHN . . . . .	VI.	'97	Walnut St., Brookline, Mass.
TAYLOR, MARK ELLIOTT . . . . .	V.	'98	47 Lincoln St., Hyde Park, Mass.
TAYLOR, SARAH MAY . . . . .	VII.	'97	Winslow, Me.
TAYLOR, WILLIAM BELLAMY . . . . .	II.	'95	Walnut St., Brookline, Mass.

NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
TEMPLE, JOHN . . . . .	II.	'97	60 Austin St., Cambridg'p't, Mass.
TREW, WILLIAM HENRY, Δ. K. E. . . . .	V.	'98	418 Spring St., Jamestown, N. Y.
TEWKSBURY, JAMES WINTHROP, Θ. E. . . . .	IX.	'97	115 Nahant St., Lynn, Mass.
THANISCH, FRANK ARTHUR . . . . .	III.	'96	Jamaica Plain, Mass.
THAYER, HORACE R. . . . .	XI.	'98	Blackstone, Mass.
THOMAS, DOUGLAS H., JR., A.B. . . . .	IV.	'95	1010 St. Paul St., Baltimore, Md.
THOMAS, JAMES WINTHROP, Φ. B. E. . . . .	II.	'95	Wayland, Mass.
THOMAS, WILLIAM HARRISON, JR. . . . .	V.	'96	319 Boston St., Lynn, Mass.
THOMPSON, ALBERT WILLIAM, Δ T. Δ. . . . .	II.	'96	Lowell, Mass.
THOMPSON, MAURICE DEKAY, Δ. K. E. . . . .	III.	'98	508 Greenup St., Covington, Ky.
THOMSON, LUCY DOOLITTLE, B.A. . . . .	IV.	'96	Belchertown, Mass.
THOMSON, MARY J. . . . .	XII.	'98	682 Garden St., Elizabeth, N. J.
THORNDIKE, HARRY HILL, A.B. . . . .	IV.	'95	175 Marlboro St., Boston, Mass.
THORNDIKE, STURGIS HOOPER, A.B. . . . .	I.	'95	22 Garden St., Cambridge, Mass.
TIETIG, RUDOLPH. . . . .	III.	'98	Avondale, Cincinnati, Ohio.
TILLEY, JOHN . . . . .	VI.	'96	123 First St., West Troy, N. Y.
TILLINGHAST, CHAS. FOSTER, Φ. B. E. . . . .	II.	'95	108 Angell St., Providence, R. I.
TOBEY, REGINALD SPRAGUE, Θ. E. . . . .	III.	'98	15 Hereford St., Boston, Mass.
TOMPKINS, ERNEST ALONZO . . . . .	VIII.	'98	20 Seaverns Av., Jamaica Pl., Mass.
TONE, JAY ERWIN . . . . .	X.	'97	Woodland Av., Des Moines, Ia.
TORREY, CHARLES AUGUSTINE, JR. . . . .	V.	'98	Lynnfield, Mass.
TORREY, EMELINE ELIZA . . . . .	VII.	'97	23 Winthrop St., Roxbury, Mass.
TOWER, CLEMENT BATES, JR. . . . .	V.	'96	Hyde Park, Mass.
TOWNE, LILLIAN MAY . . . . .	VII.	'96	34 Falmouth St., Boston, Mass.
TOZIER, HENRY HARRIS . . . . .	V.	'96	268 Wash'n St., Haverhill, Mass.
TRAVIS, WILLIAM WALLACE . . . . .	II.	'97	Wellesley Hills, Mass.
TREAT, GEORGE WINFIELD . . . . .	VII.	'98	Livermore Falls, Me.
TREAT, NELLIE FLORENCE . . . . .	VII.	'98	61 Beacon St., Chelsea, Mass.
TRIPP, BENJAMIN CLARK . . . . .	IV.	'97	158 Arnold St., New Bedford, Mass.
TROUT, CHARLES ELIPHALET . . . . .	I.	'96	245 Keystone Av., River Forest, Ill.
TUCKER, ALBERT WILLIAM . . . . .	IV.	'98	21 Summit Pl., Newburyp't, Mass.
TUCKER, ATHERTON HOWE . . . . .	XII.	'98	1079 Adams St., Dorchester, Mass.
TUCKER, CHARLES WILLIAM . . . . .	V.	'96	North Andover, Mass.
TUCKER, EDWARD AUSTIN, Δ. K. E. . . . .	I.	'95	62 Myrtle St., Melrose, Mass.
TUCKER, FRANK STEVENSON. . . . .	II.	'97	Marblehead, Mass.
TUCKER, HUGH MERCER . . . . .	II.	'95	107 N. Weber St., Colo. Sp'gs, Colo.
TWOMBLY, FRED HENRY . . . . .	V.	'98	Newton Centre, Mass.
TYLER, LUCIUS SPAULDING, Σ. X. . . . .	VI.	'97	Waltham, Mass.
ULMER, GEORGE FREDERICK, X. Φ. . . . .	IX.	'98	82 Cliff Street, Norwich, Conn.
UNDERHILL, ARTHUR PERLEY, X. Φ. . . . .	VI.	'96	Springfield, Mass.
UNDERWOOD, FRANK EDWARD . . . . .	II.	'97	Auburndale, Mass.
UNDERWOOD, HOWARD COGGIN. . . . .	XII.	'98	4 Wilson St., Natick, Mass.
UNDERWOOD, JOHN DELOSS, Σ. A. E. . . . .	IV.	'98	62 Hancock St., Malden, Mass.
URQUIZA Y BEA, PEDRO, Θ. E. . . . .	II.	'96	Bilbao, Spain.
USHER, SUSANNAH . . . . .	VII.	'96	9 Kirkland Pl., Cambridge, Mass.
VAHLKAMP, HENRY RUDOLPH . . . . .	IV.	'97	2210 Miami St., St. Louis, Mo.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
VALLECILLO-MANDRY, RAFAEL . . . .	VII.	'98	Yabucoa, Porto Rico.
VAN EVEREN, GRACE ABBIE . . . .	V.	'96	841 Jefferson Ave., Brooklyn, N.Y.
VAN HORNE, RICHARD B., Δ. Ψ. . . .	III.	'98	917 Sherbrooke St., Montreal, Que.
VIDETO, THEODORE ERNEST . . . .	IV.	'97	South Framingham, Mass.
VINAL, RALPH SUMNER . . . .	IV.	'97	42 Warren Ave., Brockton, Mass.
VINING, ROBERT McALLASTER . . . .	IV.	'98	South Weymouth, Mass.
VINTON, THOMAS MACINTIRE, X. Φ. . .	I.	'97	770 N. Penn. St., Indianapolis, Ind.
VON HOLST, HERMANN V., A.B., Δ. T.	IV.	'96	255 East 61st St., Chicago, Ill.
VON JUNGENSELD, CARL EDMUND . . .	IV.	'96	West Brighton, N. Y.
VOSE, WILLARD BADGER . . . .	II.	'96	25 Sunnyside St., Hyde Park, Mass.
WADLEIGH, GEORGE ROBINSON . . . .	II.	'97	Fountain St., W. Newton, Mass.
WADSWORTH, GEORGE REED, Δ. T. . .	VII.	'98	29 Beaver St., Keene, N. H.
WAGNER, JOHN LOWRY . . . .	VI.	'95	93 12th St., Wheeling, W. Va.
WAITE, LOREN GLEASON . . . .	VI.	'95	105 Beltran St., Malden, Mass.
WALDO, GENTRY . . . .	IX.	'98	1019 Thornby Pl., St. Louis, Mo.
WALKER, HIRAM CHANDLER . . . .	V.	'97	Walkerville, Ont.
WALKER, JAMES CANFIELD . . . .	VI.	'98	241 So. Main St., St. Albans, Vt.
WALL, WILLIAM GUY, Δ. T. Δ. . . .	VI.	'96	Buck Lodge, Md.
WALLACE, ROBERT BRUCE . . . .	XIII.	'98	Franklin Ave., Cleveland, Ohio.
WALTHER, WILLIAM JOHN . . . .	I.	'97	929 No. Halsted St., Chicago, Ill.
WALWORTH, JOSEPH EDWARD . . . .	V.	'95	20 Concord St., Lawrence, Mass.
WARD, PAUL SHIPMAN . . . .	I.	'97	Cynthiana, Ky.
WARD, WARD WELLINGTON, Δ. T. . .	VII.	'98	Wyandotte, Mich.
WARREN, GEORGE WILLIAM . . . .	VII.	'97	142 Pine St., Portland, Me.
WARREN, JOHN EDWARD . . . .	IX.	'98	Foxvale, Mass.
WASHBURN, THURLOW, Δ. K. E. . . .	III.	'97	31 Lee St., Cambridge, Mass.
WASON, ROBERT SIDNEY, Σ. A. E. . .	V.	'95	225 Main St., Nashua, N. H.
WATERBURY, CHARLES DANN . . . .	IV.	'95	Chicago, Ill.
WATERMAN, HENRY ARTHUR . . . .	II.	'96	2 Prospect Ct., Malden, Mass.
WATERSON, KARL WILLIAM . . . .	VI.	'98	22 Royal St., Lowell, Mass.
WATKINS, NORMAN . . . .	VI.	'98	87 Poplar St., Roslindale, Mass.
WATKINS, WILLARD HASKELL . . . .	V.	'95	87 Poplar St., Roslindale, Mass.
WATROUS, WALTER CHAUNCEY, X. Φ. .	IV.	'98	421 E. 2d St., Duluth, Minn.
WATSON, GEORGE HARTLOW, Z. Ψ. . .	VI.		398 Park Ave., Paterson, N. J.
WATSON, HERBERT JEREMIAH, X. Φ. .	VI.	'96	242 Huntington Av., Boston, Mass.
WATTS, FRANCIS HENRY . . . .	I.	'97	Natick, Mass.
WAYNE, JACOB LLOYD, 3D. . . .	VI.	'96	Avondale, Cincinnati, Ohio.
WEIMER, EDGAR ARTHUR . . . .	VIII.	'98	Lebanon, Penn.
WELLS, ALBERT JAMESON . . . .	VI.	'96	32 Orchard St., Lawrence, Mass.
WELLS, LOUISA APPLETON . . . .	IX.	'95	Commonw'lth Av., Boston, Mass.
WENGREN, ELMER LINDBERG, A.B. . .	IV.	'95	11 Mellen St., Portland, Me.
WENTWORTH, CHARLES AUSTIN . . . .	I.	'96	9 Howard St., Haverhill, Mass.
WESSON, PAUL BANCROFT . . . .	X.	'98	Tyngsboro, Mass.
WESTON, DAVID BRAINARD . . . .	V.	'95	Sharon, Mass.
WEYMOUTH, THOMAS ROTE, Δ. T. . .	VI.	'97	56 No. Main St., Lock Haven, Pa.
WHEELER, ARCHER ESTES . . . .	III.	'96	211 College St., Lewiston, Me.
WHEELER, RALPH NORMAN . . . .	I.	'95	Concord, Mass.

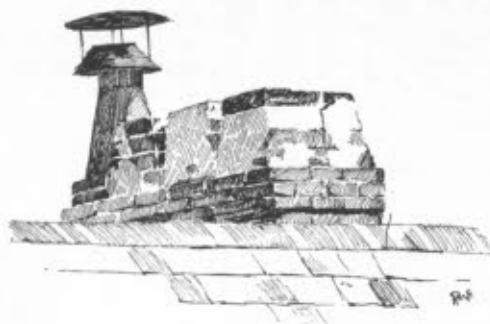
NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
WHITE, WILLIAM . . . . .	VI.	'98	195 Cohannet St., Taunton, Mass.
WHITING, ELEANOR FELTON . . . .	VII.	'98	100 Main St., Charlestown, Mass.
WHITING, RALPH SPELLMAN, A. K. E.	IV.	'97	70 Broad St., Pittsfield, Mass.
WHITMORE, ASHLEY BROWN . . . .	VII.	'98	568 W. 2d St., Dayton, Ohio.
WHITNEY, LAMBERT NUTT . . . . .	VI.	'96	74 Waban Park, Newton, Mass.
WHITNEY, RICHARD . . . . .	I.	'96	40 Wales St., Dorchester, Mass.
WHITON, DAVID THOMAS . . . . .	II.	'97	Hingham Centre, Mass.
WHITTEN, ROSCOE BENJAMIN . . . .	VI.	'98	129 Brooks St., E. Boston, Mass.
WHITTEN, WILLIAM HENRY, JR. . . .	VIII.	'96	59 School St. Jamaica Plain, Mass.
WIGGIN, THOMAS HOLLIS . . . . .	I.	'95	154 Mountain Ave., Malden, Mass.
WIGHT, ALBERT OBANDO . . . . .	IV.	'96	Reading, Mass.
WIGHTMAN, EDWIN EVANS . . . . .	VII.	'98	898 No. Main St., Pawtucket, R. I.
WILCOX, MERRITT SMITH . . . . .	IV.	'97	Sandusky, Ohio.
WILDER, CLIFTON WHITE . . . . .	IV.	'98	8 Gardner Pl., Leominster, Mass.
WILDER, RALPH EDWARD . . . . .	VI.	'98	Maple St., West Roxbury, Mass.
WILDER, WILLIAM ALFONSO . . . . .	VIII.	'98	412 B St., S. E., Washington, D. C.
WILLEY, NETTIE MORTON . . . . .	VII.	'98	1 Bower Park, Roxbury, Mass.
WILLIAMS, BESSIE HASTINGS, A.B. .	VII.	'98	453 Beacon St., Boston, Mass.
WILLIAMS, CHARLES GOODNOW . . . .	I.	'95	55 E. Main St., Norwalk, Ohio.
WILLIAMS, DORA . . . . .	VII.	'96	Walnut St., Brookline, Mass.
WILLIAMS, ROGER JAMES . . . . .	IX.	'95	Canton, Mass.
WILLIAMS, WALTER SCOTT . . . . .	X.	'95	Haverhill, Mass.
WILLIS, JOHN HOWARD, A.B. . . . .	IV.	'96	Waban, Mass.
WILLIS, RAYMOND SMITH . . . . .	IX.	'98	210 Davis St., Evanston, Ill.
WILSON, WINSLOW ABBOTT, S. A. E.	VI.	'95	72 Magnolia St., Roxbury, Mass.
WING, CHARLES FREDERIC, JR. . . .	V.	'98	37 So. 6th St., New Bedford, Mass.
WING, DAVID LAFOREST . . . . .	VIII.	'98	43 Ohio St., Bangor, Me.
WINKLEY, WILLIAM HENRY . . . . .	XIII.	'95	West Medford, Mass.
WINN, MARY ELEANOR . . . . .	VII.	'98	18 Blaine Ave., Allston, Mass.
WINSLOW, CHARLES EDWARD AMORY .	IV.	'98	3 West Cedar St., Boston, Mass.
WISE, SAMUEL FRANCIS . . . . .	I.	'96	771 Broadway, So. Boston, Mass.
WOELFEL, ERNEST . . . . .	IX.	'98	Morris, Ill.
WOLFE, JOHN J. COLVIN . . . . .	II.	'95	Coeymans, N. Y.
WOOD, ELVIRA . . . . .	VII.	'96	198 Adams St., Waltham, Mass.
WOOD, WILLETT AUBREY . . . . .	VI.	'96	423 4th Ave., Detroit, Mich.
WOOD, WILLIAM REMINGTON . . . .	XIII.	'97	136 Broadway, Providence, R. I.
WOOD, WINTHROP BARRETT . . . . .	VI.	'98	Concord, Mass.
WOODMAN, ALPHEUS GRANT . . . . .	V.	'97	Essex, Mass.
WOODMAN, GEORGE MADDOCK . . . .	I.	'97	Essex, Mass.
WOODWELL, JULIAN ERNEST . . . .	II.	'96	Newburyport, Mass.
WOODWORTH, EDWARD HAROLD . . . .	V.	'97	Newtonville, Mass.
WOODYATT, ERNEST, S. X. . . . .	IV.	'96	231 Dempster St., Evanston, Ill.
WOOLLETT, JOHN WOODWARD . . . .	I.	'97	Valmont, Colo.
WOOSTER, THOMAS TUTTLE . . . . .	VI.	'98	247 W. 76th St., New York, N. Y.
WORCESTER, HENRY ELWYNNE . . . .	II.	'97	9 Lombard St., Dorchester, Mass.
WRAY, CHARLES FREDENBURG, F. T. A.	II.	'96	44 Lorimer St., Rochester, N. Y.
WRIGHT, GEORGE HENRY . . . . .	IX.	'98	104 Dartmouth St., Boston, Mass.
WRIGHT, JAMES HAYDEN, A.B. . . .	IV.	'95	34 Warren Ave., E. Detroit, Mich.



NAME AND FRATERNITY.	COURSE.	CLASS.	HOME ADDRESS.
WUICHET, ROBERT GROVE . . . . .	II.	'97	346 W. 1st St., Dayton, Ohio.
WYARD, EDWARD SAXON . . . . .	III.	'97	Spokane, Wash.
YODER, LUTHER KELLER, A. Y. . . . .	II.	'95	1031 Penn St., Reading, Penn.
YOERG, HENRY, A. Y. . . . .	II.	'95	215 W. Isabel St., St. Paul, Minn.
YOUNG, CONRAD HENRY, B. O. II. . . . .	II.	'96	8 So. Piedmont St., Canton, Ohio.
ZAPF, ALFRED EDWARD, A. Y. . . . .	IV.	'95	Freeport, Ill.
ZIMMERMANN, WALTER GUSTAVE. . . . .	IV.	'98	683 Sedgwick St., Chicago, Ill.

## Summary.

REGULAR STUDENTS, 4th year . . . . .	157
“ “ 3d “ . . . . .	186
“ “ 2d “ . . . . .	215
“ “ 1st “ . . . . .	276
SPECIAL STUDENTS . . . . .	349
Total . . . . .	1,183





JOHN ANDERSON HOLWILL, '95,

Died August 27, 1894.

JOHN CAMP SWANTON, '96,

Died September 22, 1894.

WILLIAM AMES, Jr., '96,

Died September 23, 1894.

HARRY JONATHAN RICE, '96,

Died December 29, 1894.

GEORGE THOMAS DRAPER, '95,

Died February 6, 1895.



# LOWELL SCHOOL OF PRACTICAL DESIGN

## Instructors.

CHARLES KASTNER.

MABEL STEVENS.

## Students.

NAME.	HOME.	RESIDENCE.
ADAMS, ALICE ELIZA . . . . .	Auburndale . . . . .	Auburndale.
ALLEN, WINTHROP BLAKESLEY . . . . .	Newton . . . . .	Newton.
ANDREWS, MARY ALICE . . . . .	Mt. Auburn . . . . .	Mt. Auburn.
ASHLEY, WALTER . . . . .	Boston . . . . .	11 Irvington St.
BARRETT, JESSIE GERTRUDE . . . . .	Malden . . . . .	Malden.
BAYLEY, ARTHUR KIRKMAN . . . . .	Salem . . . . .	Salem.
BEEBE, ADELAIDE SOPHIA . . . . .	Hampden . . . . .	152 Warren Ave.
BLISS, NELLIE MAY . . . . .	Winchester . . . . .	Winchester.
BORDEN, EDWARD PIERCE . . . . .	Fall River . . . . .	Fall River.
BRADFORD, FLORA LOUISE . . . . .	South Billerica . . . . .	40 Berkeley St.
BURNS, JOHN TOD . . . . .	Leominster . . . . .	Leominster.
BYRAM, JOSEPH ROBINSON, JR. . . . .	Boston . . . . .	572 Mass. Ave.
BYRNE, BLANCHE GERTRUDE . . . . .	Boston . . . . .	197 Warren Ave.
CASANOVA, ANNA MARIE . . . . .	Boston . . . . .	10 Derne St.
CHAMBERLAIN, HARRIETTE LOUISE . . . . .	Boston . . . . .	33 Wellington St.
DAMON, EDWARD LESTER . . . . .	Reading . . . . .	Reading.
DANIELS, EMMA LOUISE . . . . .	Roxbury . . . . .	Lambert St., R.
DOW, MINNIE ELLA . . . . .	Franklin . . . . .	106 Chandler Street.
FELIX, MARIE RENÉE . . . . .	Auburndale . . . . .	Auburndale.
FISCHER, EUGENE NICHOLAS . . . . .	Jamaica Plain . . . . .	Franklin Park, J. P.
FLINT, ADDISON . . . . .	Danvers . . . . .	Reading.
GOODRICH, GRACE ROSETTA . . . . .	Roxbury . . . . .	Hotel Dale, R.
GUELL, ALICE FRANCES . . . . .	Boston . . . . .	22 Buckingham St.
HAGERTY, ELIZABETH MONICA . . . . .	Boston . . . . .	39 E. Brookline St.

NAME.	HOME.	RESIDENCE.
HALL, CLARENCE ALLEN . . . . .	Salem . . . . .	Salem.
HEATH, MARIANNA PRIMROSE . . . . .	Hyde Park . . . . .	Hyde Park.
HILL, HENRY BROOKS STEPHEN . . . . .	Roxbury . . . . .	48 Centre St., R.
HILTON, RENA EVELYN . . . . .	Hyde Park . . . . .	Hyde Park
HIRTLE, CORA DELLA . . . . .	Lynn . . . . .	Lynn.
HOWARD, CLARA ANTOINETTE . . . . .	Somerville . . . . .	Somerville.
HOWES, WILLIAM FRANKLIN . . . . .	Jamaica Plain . . . . .	15 Beethoven St., J. P.
LAVERS, WILLIAM EVERETT . . . . .	Brockton . . . . .	Brockton.
LESLIE, MARION GRANT . . . . .	Melrose . . . . .	Melrose.
LÉVY, SARA . . . . .	Boston . . . . .	29 Greenwich Park.
LIBBY, HORATIO AYERS . . . . .	Melrose . . . . .	Melrose.
LINSCOTT, GRACE ISOBEL . . . . .	Gloucester . . . . .	Cambridge.
MANNING, HELENE . . . . .	Cambridge . . . . .	Cambridge.
MOONEY, GERTRUDE PAULINE . . . . .	Cambridge . . . . .	Cambridge.
MOSMAN, AUSTIN REYNOLDS . . . . .	Jamaica Plain . . . . .	5 Lamartine Pl., J. P.
NAGLE, EVELYN . . . . .	Boston . . . . .	13 Cortes St.
NICHOLS, MAUD ALICE . . . . .	Chicopee . . . . .	41 Irvington St.
NORRIS, KATHERINE LOVE . . . . .	Sauk Centre, Minn. . . . .	40 Berkeley St.
PALMER, ERNEST PACKARD . . . . .	South Boston . . . . .	660 Sixth St., S. B.
PARSONS, EVELYN M. . . . .	Saugus . . . . .	Saugus.
POORE, MABEL . . . . .	Newburyport . . . . .	Newburyport.
RENAUD, MARIE ALBERTINA . . . . .	Boston . . . . .	136 Chandler St.
RINN, CHARLES EDWARD WARREN . . . . .	Atlantic . . . . .	Atlantic.
RUSSELL, FANNIE . . . . .	Portsmouth, N. H. . . . .	18 Hanson St.
RYAN, FREDERICK AUGUSTINE . . . . .	E. Weymouth . . . . .	E. Weymouth
SCHLOSS, ROSA . . . . .	Boston . . . . .	197 W. Newton St.
SHACKFORD, CHARLES LEE . . . . .	E. Weymouth . . . . .	E. Weymouth.
SHERRY, AGNES GERTRUDE . . . . .	So. Boston . . . . .	146 Dorchester St., S. B.
SOUTHWORTH, HOWARD DWIGHT . . . . .	Deep River, Conn. . . . .	4 Concord Sq.
TAPPER, ALICE MAUD . . . . .	Lynn . . . . .	Lynn.
WARD, ALBERT PRENTISS . . . . .	Rochester, N. Y. . . . .	Cambridge.
WEST, JOSEPHINE MIRIA . . . . .	Princeton . . . . .	Cambridge.
WETHERBEE, MATTIE . . . . .	Manchester . . . . .	854 Beacon St.

Total, 57.



#### Candidates for Advanced Degrees.

ABBOT, CHARLES GREELEY, S.B.

DU PONT, HENRY BELIN, S.B., Mass. Institute of Technology.

MANN, FRED MAYNARD, B.C.E., University of Minnesota, S.B., Mass. Institute of Technology.

MEYER, JOSEPH ANDREW, JR. S.B., Mass. Institute of Technology.

SCOTT, WALTER OSGOOD, S.B., Mass. Institute of Technology.

---

#### Candidates for Degrees.

AMES, BUTLER, U. S. Military Academy.

AULTMAN, DWIGHT EDWARD, U. S. Military Academy.

BARR, LAWRENCE, A.B., Harvard University.

BIGELOW, SAMUEL LAWRENCE, A.B., Harvard University.

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

BROOKS, ALFRED MANSFIELD, A.B., Harvard University.

CABOT, WALTER MASON, A.B., Harvard University.

CANNON, ROBERT MELVILLE, B.C.E., Iowa State University.

CASHMAN, JOHN FRANCIS, A.B., Mount St. Mary's College.

CHAMBERLAIN, HERBERT WILLIAM, B.Sc., Iowa State Agricultural College.

CHASE, HAROLD MAYSON, S.B., Mass. Institute of Technology.

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

COONLEY, AVERY, A.B., Harvard University.

CRAFTS, WALTER NATHAN, A.B., Oberlin College.

DAVIS, CHARLES WYLIE, M.E., Western University of Pennsylvania.

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

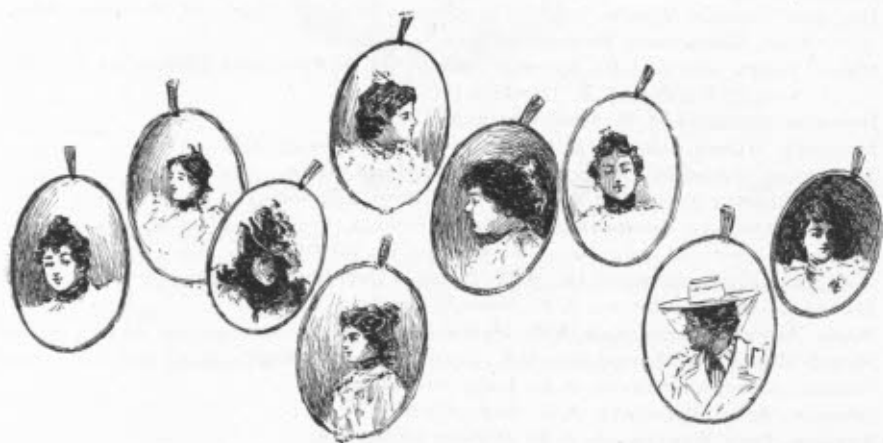
DIAZ, MANUEL DIONYSIUS, A.B., University of Havana.

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

DUTTON, HENRY STEVENS, B.S., University of California.

FARQUHAR, ROBERT DAVID, A.B., Harvard University  
 FITZ GERALD, FRANCIS A. J., B.A., Trinity College (Dublin).  
 GARFIELD, ABRAHAM, A.B., Williams College.  
 GAY, CHARLES MERRICK, JR., A.B., Harvard University.  
 GILMAN, JOHN EDWARD, JR., A.B., Harvard University.  
 GOODWILLIE, JAMES BARRETT, Ph.B., Sheffield Scientific School.  
 GREEN, ANDREW HUGH, A.B., Harvard University.  
 GREENE, HENRY COPLEY, A.B., Harvard University.  
 HALL, CHARLES HENRY, JR., A.B., Yale University.  
 HARDON, MARGARET, S.B., Wellesley College.  
 HILDRETH, JOHN LEWIS, JR., B.L., Dartmouth College, A.B., Harvard University.  
 HODGE, BENJAMIN, A.B., Yale University.  
 HOLMAN, GEORGE MIRICK, B.S., N. H. College of Agriculture and Mechanic Arts,  
 M.D., Hahnemann Medical College.  
 HOWE, JAMES LEWIS, A.B., Amherst College, Ph.D., Göttingen University.  
 HUNT, SAMUEL PARKER, A.B., Dartmouth College.  
 JOHNSON, CHARLES, A.M., Louisiana State University.  
 LACOUNT, HENRY OSGOOD, S.B., Mass. Institute of Technology.  
 LAWRENCE, CHARLES EDWARD, B.A., Charleston College.  
 LEACH, ALBERT ERNEST, S.B., Mass. Institute of Technology.  
 MARBLE, DWIGHT NEWCOMB, A.B., Centre College.  
 MARCY, HENRY ORLANDO, JR., A.B., Harvard University.  
 McILVAINE, JOHN ADDISON, JR., A.B., National Deaf Mute College.  
 MERRICK, CHARLES IRVING, A.B., Harvard University.  
 NASH, ARTHUR CLEVELAND, A.B., Harvard University.  
 NEBEL HERREROS, ALEJANDRO, B.S., University of Santiago.  
 NESBIT, ARTHUR FLEMING, A.B., Lafayette College.  
 NORTON, ALICE PELOUBET, A.B., Smith College.  
 PARKER, JOHN HARLESTON, A.B., Harvard University.  
 PRESSEY, HARRY ALBERT, B.S., Columbian University.  
 PRIEST, GEORGE WESLEY, A.B., Harvard University.  
 REYNOLDS, ROBERT DUNCAN, S.B., Mass. Institute of Technology.  
 ROBERTS, THOMAS MAYO, A.B., University of Oregon.  
 SAWYER, JAMES COWAN, A.B., Yale University.  
 SLADE, CONRAD HENSLER, A.B., Harvard University.  
 SMETTERS, SAMUEL TUPPER, Ph.B., Northwestern University.  
 STICKNEY, DELIA, S.B., Mass. Institute of Technology.  
 STOUGHTON, BRADLEY, Ph.B., Sheffield Scientific School.  
 STRICKLER, EMERSON H., A.B., Johns Hopkins University.  
 TAFT, HARRISON SOUTHWICK, B.P., Brown University.  
 THOMAS, DOUGLAS HAMILTON, JR., A.B., Johns Hopkins University.  
 THOMSON, LUCY DOOLITTLE, A.B., Smith College.  
 THORNDIKE, HARRY HILL, A.B., Harvard University.  
 THORNDIKE, STURGIS HOOPER, A.B., Harvard University.  
 VON HOLST, HERMANN VALENTIN, A.B., University of Chicago.  
 WENGREN, ELMER LINDBERG, A.B., Harvard University.  
 WILLIAMS, BESSIE HASTINGS, A.B., Smith College.  
 WILLIS, JOHN HOWARD, A.B., Williams College.  
 WRIGHT, JAMES HAYDEN, A.B., Harvard University.

NOTE.—Addresses of the graduate students may be found in the Register of Students.



The Young Women  
at the Institute . .

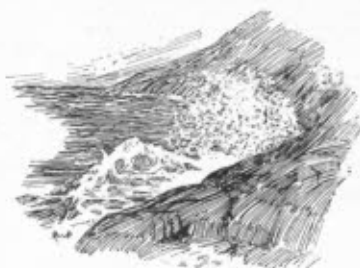
# Women Studying at Technology

BOLAND, MARY A.	Chemistry.
BOWEN, KATE AGNES	English, Mathematics, Physics.
BRUCE, ANNETTA	Biology.
BUCK, HATTIE JOSEPHINE	Chemistry, Drawing, Language, Mathematics.
CADE, MARION LOUISE	Chemistry.
CHAMBERLIN, HELEN	Architecture.
CHEEVER, MARION	Biology, Chemistry.
CLAPP, MABEL DELANO	Geology.
CRANE, EVA HAYES	Architecture.
DANFORTH, HELEN CALHOUN	Biology, Chemistry, Geology.
DOWD, ELIZABETH GERTRUDE,	
	Biology, Chemistry, English Language, Mathematics, Physics.
FISHER, ELIZABETH FLORETTE	Geology.
FITTS, ADA MARY	Biology.
FORREST, MABEL FLORA	Biology.
GARRETT, CHRISTINA HALLOWELL	Architecture.
GATES, HATTIE LAWRENCE	Biology, Chemistry, Geology, Language.
GIBBONS, MARY HOWE	Drawing.
GOODRICH, ANNIE LOUISE	Biology, Chemistry, Mathematics.
GORDON, ELIZABETH FULTON	Biology.
HAMLEN, ELIZABETH PERKINS	Biology, Chemistry.
HARDON, MARGARET, S.B.	Architecture, Drawing, Geology, Language.
HOWELL, MARY HARRIET	Biology.
IDE, LILLA DOWNES	Biology.
JOYCE, EDITH KINSLEY	Biology, Geology.
LANGFORD, GRACE	Chemistry, English, Mathematics, Drawing.
LYSAGHT, BELLA BENADETTE	Chemistry, Language.
MACRAE, LILLIAN JULIA	Biology.
MACRUM, JESSIE GLYDE	Biology.
MATHEWS, MARY ELIZABETH	Biology, Chemistry, Geology.
MILLER, SARAH ELIZABETH	Biology.
MORSE, EVELYN EDNA	Biology.
MUDGE, CORA BELL	Biology.
NEEDHAM, SARAH JANE CLARKSON	Biology.
NORRIS, GRACE ADELAIDE,	
	Biology, Chemistry, Geology, Language, Mathematics, Political Science.
NORTON, ALICE PELOUBET, A.B.	Biology.
O'HARA, ANNA FANNIE	Biology, Chemistry, Geology.



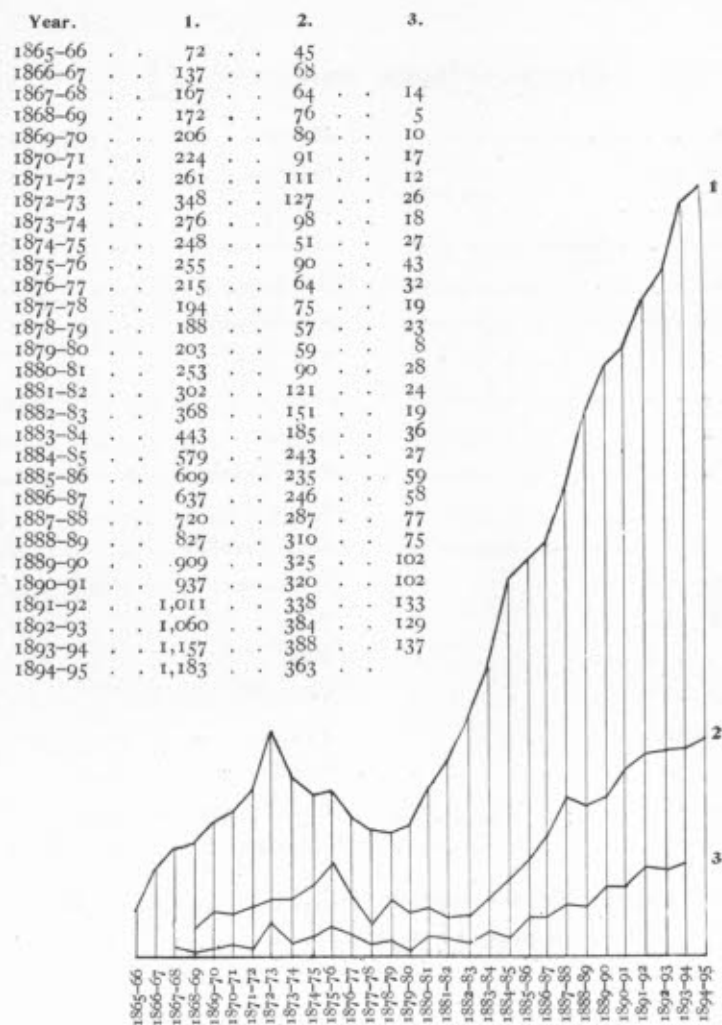
PARKER, ANNE MARY . . . . .	<i>Biology.</i>
PLUMMER, LAURA SUSANNA . . . . .	<i>Biology.</i>
POOLE, CAROLINE NICHOLSON . . . . .	<i>Physics.</i>
STICKNEY, DELIA, S.B. . . . .	<i>Geology.</i>
STONE, ESTHER . . . . .	<i>Architecture.</i>
STRONG, MARY BAKER . . . . .	<i>Geology.</i>
SWAN, ALMIRA FRENCH . . . . .	<i>Geology.</i>
TAYLOR, SARAH MAY . . . . .	<i>Biology.</i>
THOMSON, LUCY DOOLITTLE, A.B. . . . .	<i>Architecture.</i>
THOMSON, MARY JANE . . . . .	<i>Chemistry.</i>
TORREY, EMELINE ELIZA . . . . .	<i>Biology.</i>
TOWNE, LILLIAN MAY . . . . .	<i>Biology.</i>
TREAT, NELLIE FLORENCE . . . . .	<i>Biology.</i>
USHER, SUSANNA . . . . .	<i>Chemistry, Physics.</i>
VAN EVEREN, GRACE ABBIE . . . . .	<i>Chemistry, Drawing, English, Physics.</i>
WELLS, LOUISA APPLETON . . . . .	<i>English.</i>
WHITING, ELEANOR FELTON . . . . .	<i>Biology.</i>
WILLEY, NETTIE MORTON . . . . .	<i>Biology, Chemistry.</i>
WILLIAMS, BESSIE HASTINGS, A.B. . . . .	<i>Biology.</i>
WILLIAMS, DORA . . . . .	<i>Biology.</i>
WINN, MARY ELEANOR . . . . .	<i>Geology.</i>
WOOD, ELVIRA . . . . .	<i>Geology.</i>

Total, 58.



# Diagram Showing Enrollment of Students

For Each Year, from 1865-66 to 1894-95.



Column 1—Enrollment of Students in College.  
 Column 2—Enrollment of Students in Entering Class.  
 Column 3—Enrollment of Students in Graduate Class.

## Distribution of Students.

### United States.

Alabama . . . . .	1	Montana . . . . .	2
California . . . . .	9	Nebraska . . . . .	4
Colorado . . . . .	8	Nevada . . . . .	2
Connecticut . . . . .	29	New Hampshire . . . . .	28
Delaware . . . . .	4	New Jersey . . . . .	5
Dist. of Columbia . . . . .	12	New Mexico . . . . .	1
Florida . . . . .	2	New York . . . . .	59
Georgia . . . . .	2	Ohio . . . . .	50
Illinois . . . . .	36	Oregon . . . . .	1
Indiana . . . . .	3	Pennsylvania . . . . .	37
Iowa . . . . .	10	Rhode Island . . . . .	26
Kansas . . . . .	4	South Carolina . . . . .	3
Kentucky . . . . .	12	Tennessee . . . . .	1
Louisiana . . . . .	3	Texas . . . . .	6
Maine . . . . .	38	Utah . . . . .	2
Maryland . . . . .	4	Vermont . . . . .	3
Massachusetts . . . . .	708	Virginia . . . . .	2
Michigan . . . . .	8	Washington . . . . .	3
Minnesota . . . . .	10	West Virginia . . . . .	1
Missouri . . . . .	14	Wisconsin . . . . .	6

Total number States represented . . . . . 40

Total number students from same . . . . . 1,159

## Distribution of Students.

---

### Foreign Countries.

Belgium . . . . .	1	New South Wales . . . . .	1
Brazil . . . . .	1	Nova Scotia . . . . .	1
Chile . . . . .	1	Ontario . . . . .	4
Cuba . . . . .	1	Porto Rico . . . . .	1
Germany . . . . .	1	Quebec . . . . .	2
Holland . . . . .	2	Scotland . . . . .	1
Ireland . . . . .	1	Spain . . . . .	1
Japan . . . . .	1	Turkey . . . . .	1
Mexico . . . . .	1	Venezuela . . . . .	1
New Brunswick . . . . .	1		

Total number foreign countries represented . . . . . 19

Total number students from same . . . . . 24

---

United States . . . . . 1,159

Foreign countries . . . . . 24

Total . . . . . 1,183

# Summary of Students.

## By Courses.

	SENIOR.		JUNIOR.		SOPHOMORE.		REGULAR.		SPECIAL.		TOTAL.	
	R.	S.	R.	S.	R.	S.	R.	S.	R.	S.	R.	S.
COURSE I.	26	4	31	13	31	19	88	36	36	124		
COURSE II.	36	5	27	17	48	17	111	39	39	150		
COURSE III.	3	9	8	7	8	2	19	18	18	37		
COURSE IV.	13	15	16	24	19	21	48	60	60	108		
COURSE V.	13	4	16	12	21	13	50	29	29	79		
COURSE VI.	36	9	58	19	43	18	137	46	46	183		
COURSE VII.	0	4	2	11	3	14	5	29	29	34		
COURSE VIII.	2	1	4	0	3	2	9	3	3	12		
COURSE IX.	4	4	7	4	8	3	19	11	11	30		
COURSE X.	11	0	7	3	17	4	35	7	7	42		
COURSE XI.	4	0	4	1	5	0	13	1	1	14		
COURSE XII.	2	1	0	2	0	0	2	3	3	5		
COURSE XIII.	5	0	6	4	9	1	20	5	5	25		
	155*	56	186	117	215	114	556	287	287	843		
Freshmen . . . . .							276	44	44	320		
Candidates for advanced degree . . . . .							5	15	15	5		
In no particular course . . . . .							837	346	346	1,183		

\* Counted twice, two.

# College Statistics.

NAME.	LOCATION.	FOUNDED.	NO. OF STUDENTS.	NO. OF INSTRUCTORS.	COLORS.	ANNUAL.
AMHERST . . . . .	Amherst, Mass.	1821	440	33	Purple and White.	Ohio.
BOWDOIN . . . . .	Brunswick, Me.	1794	416	29	White.	<i>The Bugle.</i>
BROWN UNIVERSITY . . . . .	Providence, R. I.	1764	750	70	White and Brown.	<i>Liber Brunensis.</i>
COLLEGE OF NEW JERSEY . . . . .	Princeton, N. J.	1746	1109	77	Orange and Black.	<i>Bric-à-Brac.</i>
COLUMBIA . . . . .	New York, N. Y.	1754	1805	258	Blue.	<i>Columbian.</i>
CORNELL UNIVERSITY . . . . .	Ithaca, N. Y.	1868	1801	155	Carnation and White.	<i>Cornellian.</i>
DARTMOUTH . . . . .	Hanover, N. H.	1769	494	45	Green.	<i>Aegis.</i>
HARVARD UNIVERSITY . . . . .	Cambridge, Mass.	1636	3292	330	Crimson.	<i>Harvard Index.</i>
LEHIGH UNIVERSITY . . . . .	So. Bethlehem, Penn.	1866	491	35	Seal Brown and White.	<i>Epitome.</i>
LELAND STANFORD, JR. UNIVERSITY	Palo Alto, Cal.	1887	1013	78	Cardinal.	<i>Stanford Quod.</i>
MASS. INSTITUTE OF TECHNOLOGY	Boston, Mass.	1865	1200	121	Cardinal Red and Gray.	<i>Technique.</i>
NORTHWESTERN UNIVERSITY . . . . .	Evanston, Ill.	1851	2301	177	Royal Purple.	<i>Syllabus.</i>
OBERLIN COLLEGE . . . . .	Oberlin, Ohio.	1833	1397	82	Crimson and Gold.	<i>Hi-o-Hi.</i>
OHIO STATE UNIVERSITY . . . . .	Columbus, Ohio.	1870	745	73	Scarlet and Gray.	<i>The Lantern.</i>
PURDUE UNIVERSITY . . . . .	Lafayette, Ind.	1874	700	50	Black and Old Gold.	<i>Débris.</i>
SMITH . . . . .	Northampton, Mass.	1875	798	51	White.	<i>Onondagan.</i>
SYRACUSE UNIVERSITY . . . . .	Syracuse, N. Y.	1870	777	66	Orange.	<i>Blue and Gold.</i>
UNIVERSITY OF CALIFORNIA . . . . .	Berkeley, Cal.	1868	1800	225	Blue and Gold.	<i>Register.</i>
UNIVERSITY OF CHICAGO . . . . .	Chicago, Ill.	1890	900	148	Orange.	<i>Violet.</i>
UNIVERSITY OF CITY OF NEW YORK	New York, N. Y.	1831	993	98	Violet.	<i>Palladium.</i>
UNIVERSITY OF MICHIGAN . . . . .	Ann Arbor, Mich.	1837	2950	165	Sky Blue and Maize.	<i>Record.</i>
UNIVERSITY OF PENNSYLVANIA . . . . .	Philadelphia, Penn.	1740	2300	275	Red and Blue.	<i>The Comet.</i>
VANDERBILT UNIVERSITY . . . . .	Nashville, Tenn.	1875	733	70	Old Gold and Black.	<i>Legenda.</i>
WELLESLEY . . . . .	Wellesley, Mass.	1875	768	74	Blue.	<i>Gulielmian.</i>
WILLIAMS . . . . .	Williamstown, Mass.	1793	333	30	Royal Purple.	<i>Banner.</i>
YALE UNIVERSITY . . . . .	New Haven, Conn.	1701	2375	206	Blue.	

# Technology Statistics.



THE 1,183 students now at Technology are divided as follows: 835, or 70.6 per cent, are regular, the remainder being either specials or graduate students. A more detailed division of the enrollment by classes is appended.

	REGULAR.	SPECIAL.	PER CENT. REGULAR.
Fourth year . . . .	153 . . . .	49 . . . .	75.7
Third " . . . .	186 . . . .	111 . . . .	62.6
Second " . . . .	215 . . . .	144 . . . .	60.
First " . . . .	276 . . . .	44 . . . .	80.6

Massachusetts sends 59.8 per cent of the number of students, and Boston 17 per cent.

The average age of the entering class is 18 years 9 months.

The number of graduates, 1,252, is nearly one fourth of the number of students who have in the past been connected with Technology.

About 7 per cent of the Freshman class leave at the semi-annual recess.

The Institute subscribes for 419 periodicals and 96 annuals and serials, at an expense of over \$1,500 per year.

The size of the Gym. floor is 50 x 150 feet.

Until '71 all four classes were required to drill three hours a week.

Before 1878 there were no graduating exercises: theses presented by graduates were based upon their first professional work done after leaving the Institute.

Technology was the first institution in the United States to establish Laboratories of Water Analysis, Heat Measurements, Physico-Chemistry and Mining, Electrical and Mechanical Engineering; the first to provide a

Course in Sanitary Engineering, and to give instruction in Shop-work, irrespective of sale of products; the first college in the world to offer instruction to large classes in General Chemistry and General Physics Laboratory.

The Technology Libraries contain 34,464 volumes, divided as follows :—

General . . . . .	3,814
Engineering . . . . .	5,424
Mining . . . . .	1,382
Architectural . . . . .	1,382
Chemical . . . . .	5,805
Biological . . . . .	1,612
Physical . . . . .	4,361
Political Science . . . . .	6,764
English . . . . .	1,838
Geological . . . . .	1,520
Margaret Cheney Room . . . . .	562





## The Award received by Technology at the World's Columbian Exposition.



FOR excellence as a general school of technology, covering nearly the whole ground of science as applied to the useful arts, being the largest institution of its kind in the United States.

For extensive and varied equipment, and admirable appliances and methods of instruction.

For courses of study arranged to supplement and reinforce one another, requiring thorough general scientific and literary preparation for specialized work.

For high character of students' work as shown by drawings and sketches, shop-work in wood and metals, and particularly by theses of graduated students.

For the cultivation of correct taste, as shown by students' work in general, but especially in the fine execution and lettering of drawings and in the tinting and shading of architectural work.

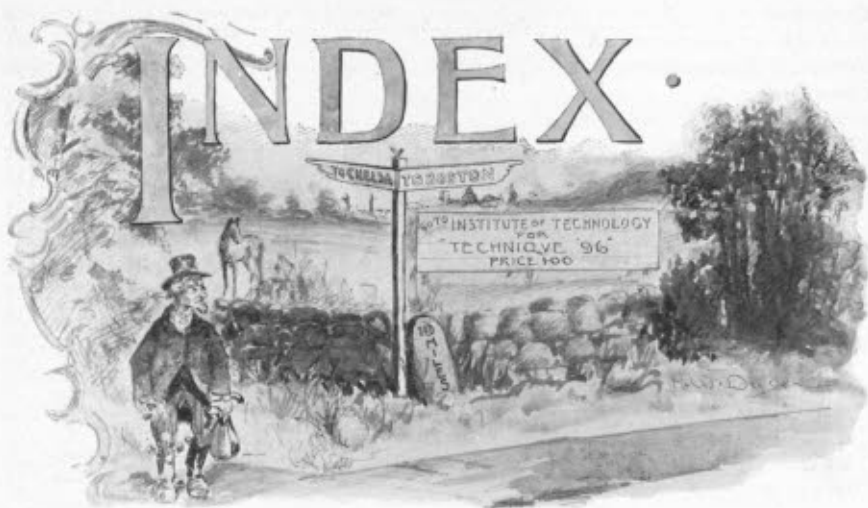
For original researches carried on in chemistry, biology, electricity, and other specialties.

For designs for textile fabrics by the students of the Lowell Free School, a branch of the Institute, showing intelligent appreciation of the need of adapting designs to the processes and machines of manufacture.

For lecture notes, covering several thousand pages, prepared by members of the Faculty and printed for the use of the students.

For high degree of specialization. For example, courses by experts in heating and ventilation and heat measurement in the department of Physics, and in such practical arts as railway signaling and electric light wiring.

For arrangements and devices for administration as conducted by Gen. Francis A. Walker, President.



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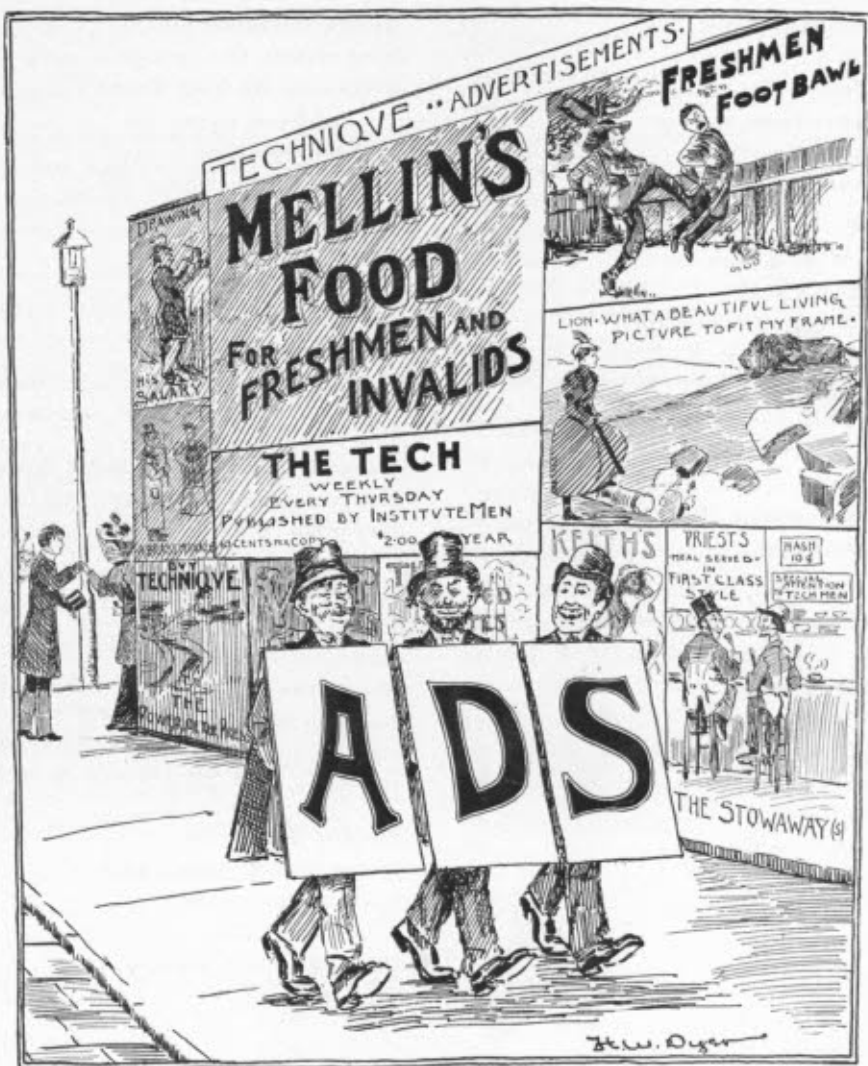
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## Notice.

---

### Institute Students . . . . .

Will find it to their advantage to examine carefully the following advertisements. The firms represented are all of well-known business integrity, and most of them have been patronized by our alumni and students for many years.

TECHNIQUE ADVERTISER.

---

ESTABLISHED 1818.

---

## BROOKS BROTHERS,

Broadway, corner 22d Street,  
NEW YORK CITY.

# Clothing and Furnishing Goods,

READY-MADE AND MADE TO MEASURE.

---

The qualities of our Ready-made Garments need no especial mention.

The particular care exercised by us in the cut, manufacture and novelty of pattern in our MEN'S READY-MADE GARMENTS is also extended to our CLOTHING FOR BOYS AND CHILDREN, and guarantees exclusive styles at no higher prices than are frequently asked for garments made in larger wholesale lots and of inferior workmanship.

PATTERNS AT ALL NOTICEABLE ALWAYS LIMITED TO SMALL QUANTITIES.

Hats for Boys and Youths—Lincoln, Bennett & Co. and other makes.  
In Furnishing Goods—Allen, Solly & Co.'s Underwear, and the best qualities in all staple articles with novelties in Neckwear, Gloves, Waterproof Coats, Scotch Long Hose, etc.



# L. P. HOLLANDER & Co.,

202 to 212 Boylston Street, and Park Square,

YOUNG MEN'S OUTFITTERS.

**Fine Tailoring.** The tariff reduction on woolens will materially affect the prices the coming season, and we shall take orders about 10 per cent less than last year.

**Ready-made Clothing Department.** Everything exclusively of our own manufacture, from the best of materials, and cut from patterns corrected to the latest fashions of the finest custom work. The same discount from former prices will also be extended to this department.

**Furnishing Goods.** Shirt making a specialty. Ready-made Negligé and Dress Shirts always in stock.

**English and Domestic Neckwear.** Most popular lines, 50 cts., 75 cts. and \$1.00.

**Hats.** Agents for the best English and American hatters.

HIGHEST GRADE 

Mackintoshes.

PERFECT FITTING. EXCLUSIVE STYLES.  
LOWEST PRICES IN BOSTON.

We make a Specialty at \$7.50, \$10.00 and \$15.00.

RUBBER GOODS OF EVERY  
DESCRIPTION.

Metropolitan Rubber Company,

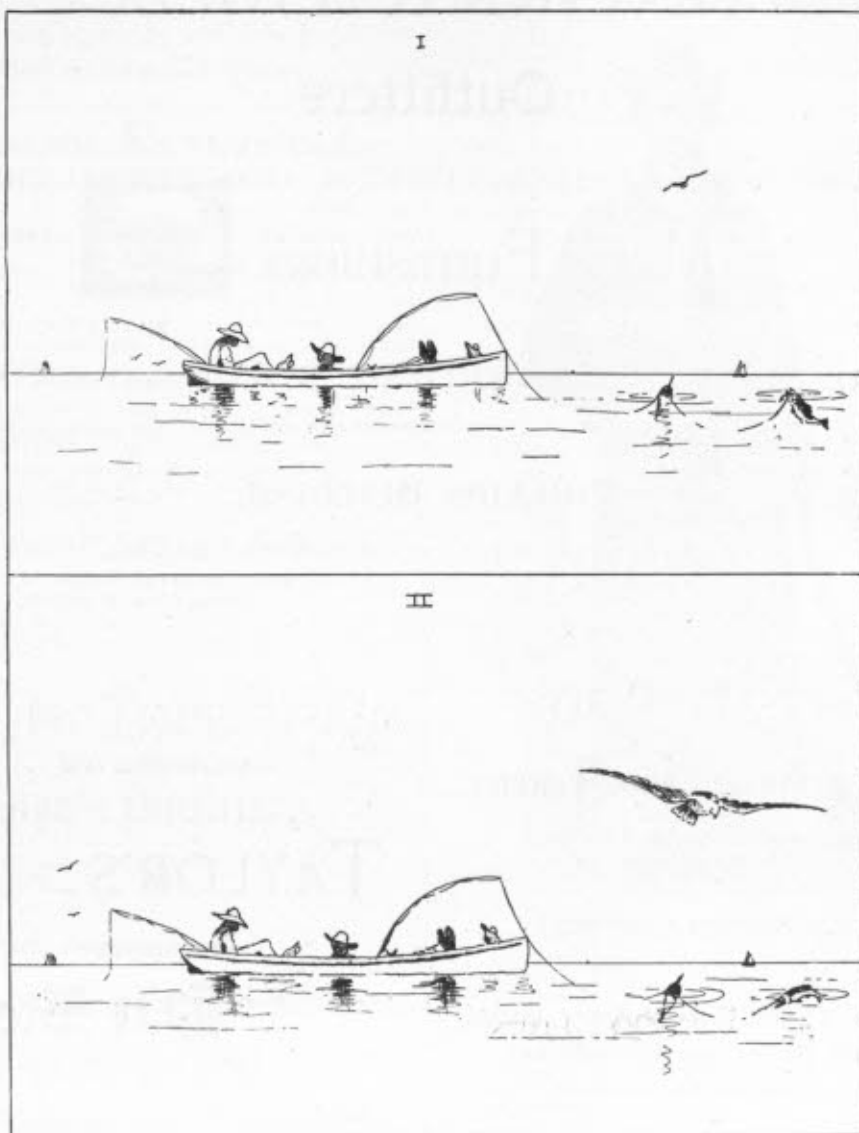
CLEVE & KRIM,

No. 49 Summer Street, Boston, Mass.



MY SPRING LINE OF  
Scotch and English novelties (confined styles)  
for Tech students ready for inspection.

F. C. CUMMINGS,  
TAILOR AND IMPORTER,  
No. 299 Washington Street,  
BOSTON.



The Fishhawk and the Minnow Bait.

# HEWINS & HOLLIS, ...Outfitters...

IMPORTERS, MANUFACTURERS AND RETAILERS OF

## Men's Furnishings

---

FINE SHIRTS CAREFULLY MADE TO ORDER.

---

PHILLIPS BUILDING,  
HAMILTON PLACE, BOSTON, MASS.

---

S. S. CROSBY,  
..Watchmaker and Jeweler..

(Formerly with CROSBY & FOSS).

---

Fine Repairing a Specialty!

---

Watches, Clocks, Musical Boxes, Jewelry,  
and Silverware for sale or  
selected to order.

---

WITH....

W. H. EDMANDS, Optician.

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No. 43 WEST STREET,

Telephone No. 3544.

BOSTON, MASS.

ESTABLISHED 1870.

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## TAYLOR'S

One-price



## Hat Store.

---

CORNER OF....

HANOVER AND COURT STREETS,  
BOSTON, MASS.

**TEN!**  
**25 cents** ( $2\frac{1}{2}$  cents each),  
AND CLOTH AT THAT!!

## LINENE REVERSIBLE.

All  
Fashionable  
Styles.



Just  
the thing for  
Students.

**COLLARS AND CUFFS** so finely finished that they look like the finest linen. Gentlemen can wear them on all occasions.

**NO LAUNDERING.**

Ask the dealers for them. Sold for 25 cents for a box of ten collars, or five pairs of cuffs. If not found, we will send by mail at same price.

**For Trial:** A sample collar and a pair of cuffs sent by mail for **six cents**. Address, giving size and style wanted,

**REVERSIBLE COLLAR COMPANY,**

77 Franklin Street, New York.  
27 Kilby Street, Boston.

**WM. N. TODD & CO.**

**Men's Outfitters.**



THE LATEST NOVELTIES IN

Underwear, Neckwear,  
Umbrellas, and  
Canes.



No. 278 WASHINGTON STREET,  
BOSTON.

## Men's Box Coats.



THIS IS THE LATEST STYLE IN MEN'S

**Mackintoshes.** We make them in a great variety of fabrics. Prices from \$5 to \$30.

We have in stock the largest assortment of **Double Texture Mackintoshes**, with capes, to be found in Boston. All wool, lined throughout, guaranteed waterproof and fast colors.

\$8.50, \$10.00, \$12.00, \$15.00, \$18.00, \$20.00, and \$25.00

SEND FOR SAMPLES.

**C. J. BAILEY & COMPANY,**

EVERYTHING IN RUBBER GOODS.

No. 22 Boylston Street, Boston.

# WALTER C. BROOKS & Co., Importing Tailors.

---

THE LARGEST STUDENTS' BUSINESS IN NEW ENGLAND.

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No. 15 MILK STREET, BOSTON, MASS.

BIRTHPLACE OF FRANKLIN,  
OPPOSITE OLD SOUTH CHURCH.

---



## J. C. LITTLEFIELD, Tailor and — Outfitter,

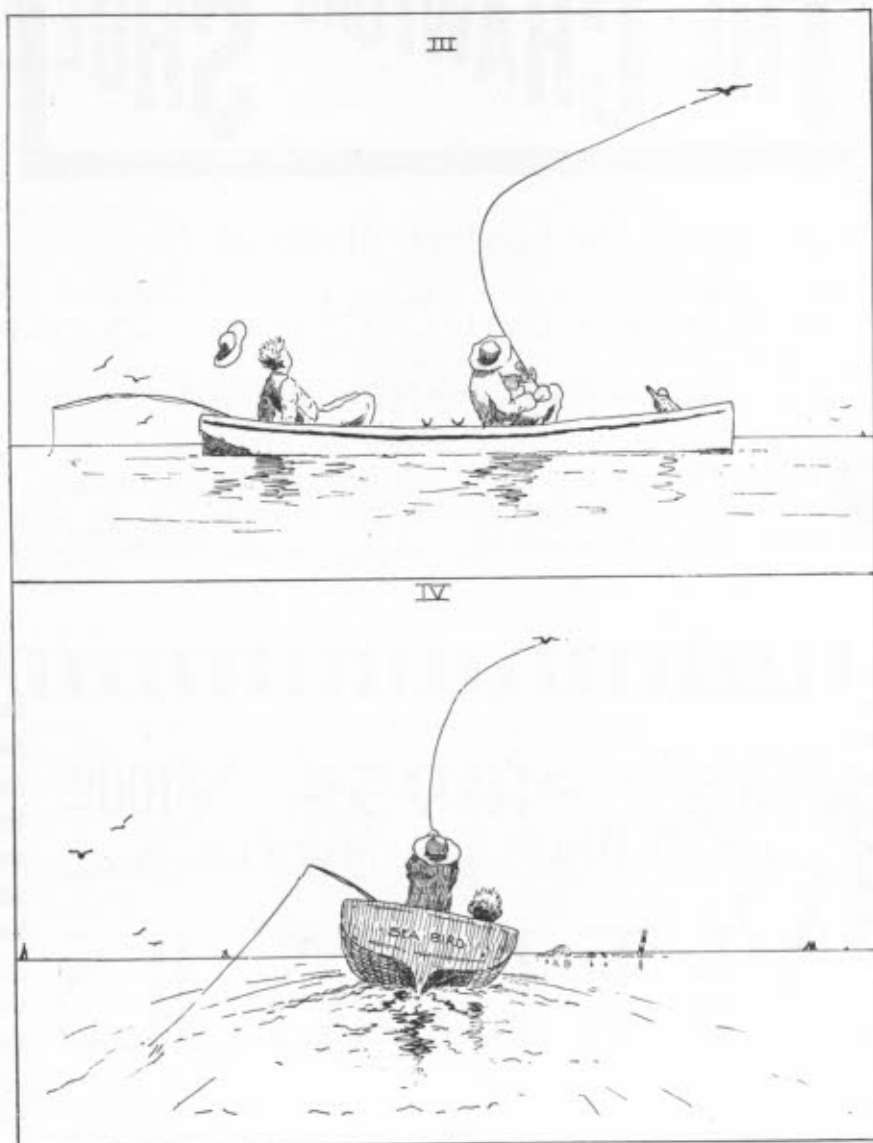
Nos. 21 AND 23 BEACON STREET, BOSTON.

---

\*\*\* DRESS SUITS A SPECIALTY \*\*\*

---

I am showing a line of goods this season for students' wear, that for style and quality will defy competition at the prices they will be offered.



The Fishhawk and the Minnow Bait.

# THE CRAWFORD<sup>RD</sup> SHOE

In all the Leading Styles at our  
NEW CRAWFORD SHOE STORE,  
NO. 36 PARK SQUARE, BOSTON.

If we cannot fit or please you from stock, will make to order for \$6.00,  
in eight days, any shoe you may desire, excepting cork sole.

Full lines of all our Crawford Shoes at our five Boston Crawford Shoe  
Stores.

\$100<sup>00</sup>

1895

\$100<sup>00</sup>

8 BEAUTIFUL MODELS

VICTOR BICYCLES

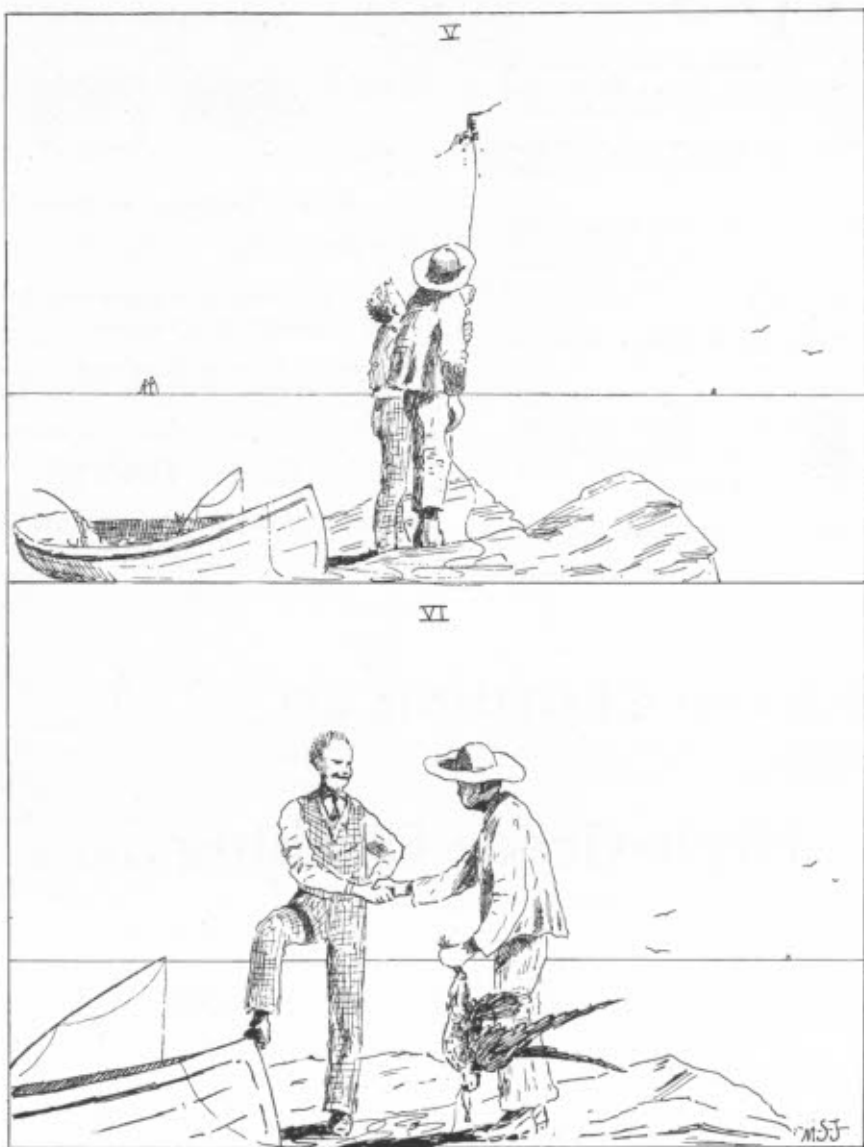
HANDSOME  
CATALOG  
FREE

VICTOR  
PAD CALENDAR  
10¢ IN STAMPS

OVERMAN WHEEL CO.  
Makers of Victor Bicycles and Athletic Goods.  
Boston. New York. Chicago.  
Detroit. Denver.  
PACIFIC COAST:  
San Francisco. Los Angeles. Portland.

\$100<sup>00</sup>

\$100<sup>00</sup>



The Fishhawk and the Minnow Bait.



# Keep's

**SHIRTS.** For business or dress, open back or open front, or both, and with different sleeve lengths, ready for use, \$1 and \$1.50 each.

**COLLARS.** Best Four-ply Linen, all the staple and latest styles, \$1.80 per dozen, 15 cents each.

**CUFFS.** Best Four-ply Linen, 25 cents a pair.

**Our Underwear Department** is the largest and most complete in the city. Special values constantly offered.

**Keep's \$1.00 Street Gloves** are the best value in the city.

**OUR GREAT SPECIALTY.** Shirts to measure, six for \$9, unlaundered; six for \$10, laundered. None better can be produced at any price.



**KEEP MANUFACTURING COMPANY,**  
114 Tremont Street, Boston.

## Students' Glasses for Study,

MADE IN PLAIN STEEL.



..Rimless Eyeglasses for Street Use..

GOLFING AND TENNIS SPECTACLES.

**Bar-spring Eyeglasses for  
Astigmatic Lenses.**

Guaranteed 75 per cent saving on old prices; 15 per cent discount to students and teachers. Sample price (compound lenses in steel), \$2.50.

**C. E. DAVIS,**

**Manufacturing and Prescription Optician,**

NO. 2 PARK SQUARE, Rooms 1 and 2,  
BOSTON, MASS.

# STANDARD CLOTHING CO.,

MANUFACTURING RETAILERS OF

## High-Grade Clothing....

From both foreign and domestic fabrics.

ALSO .....

**Advance Styles in Trousers, Suits, and  
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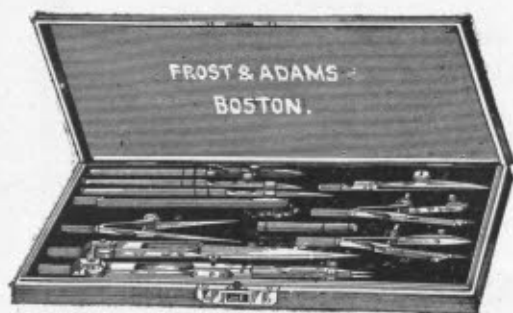
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
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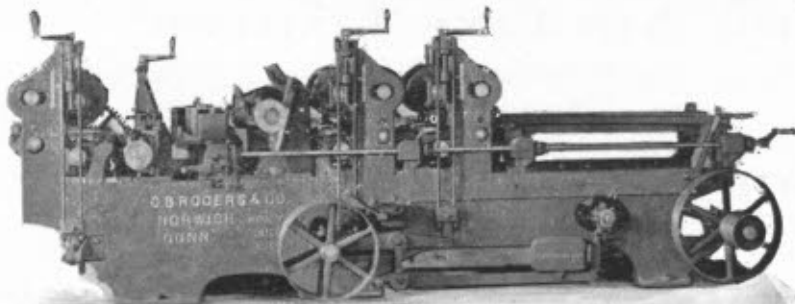
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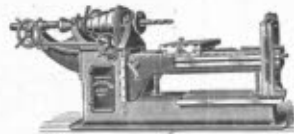
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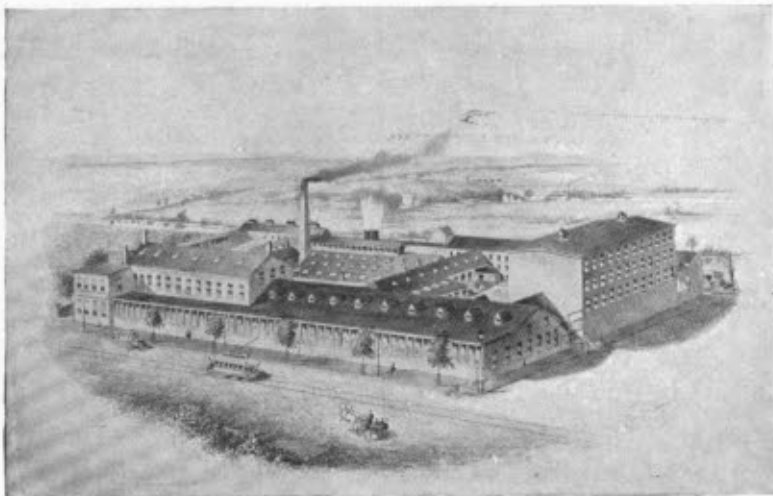
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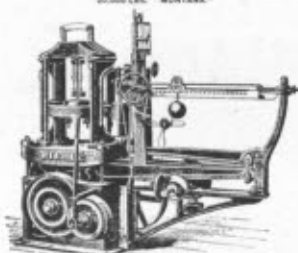
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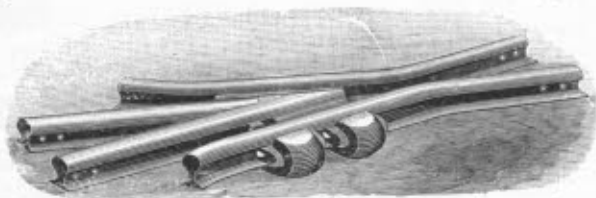
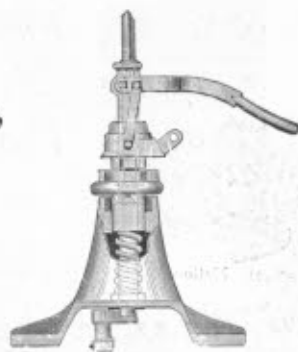
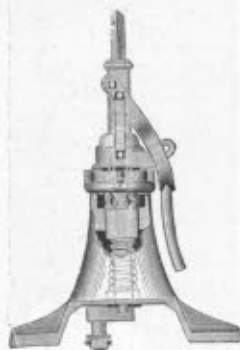
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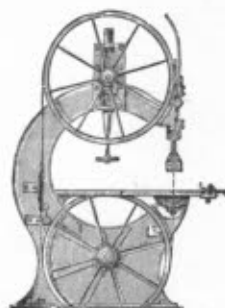
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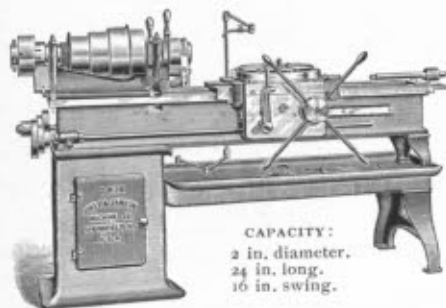
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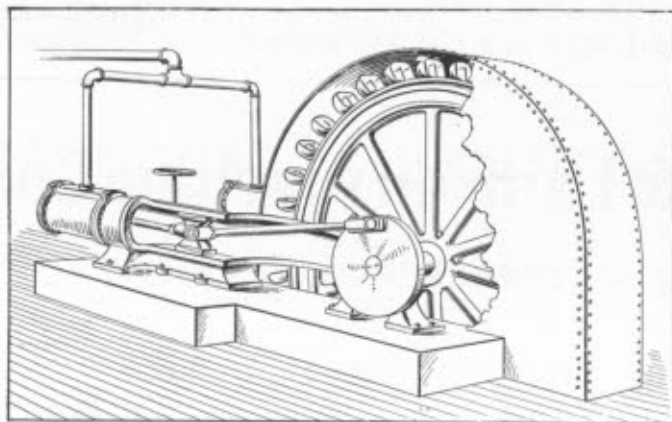
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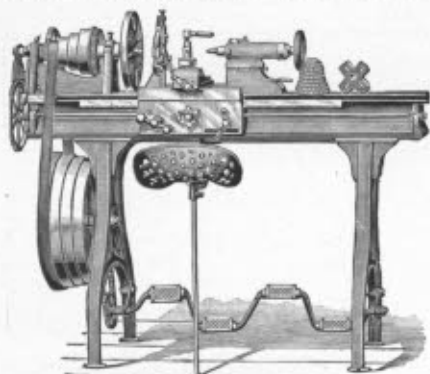
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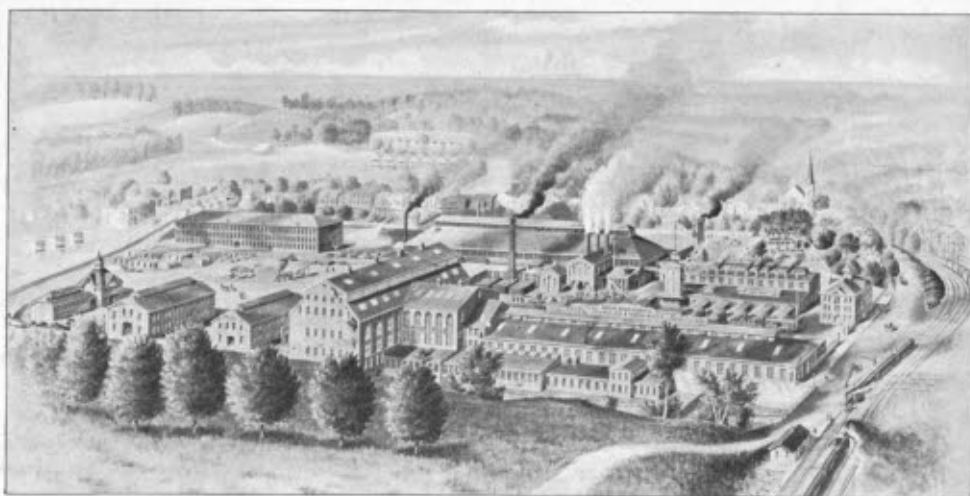
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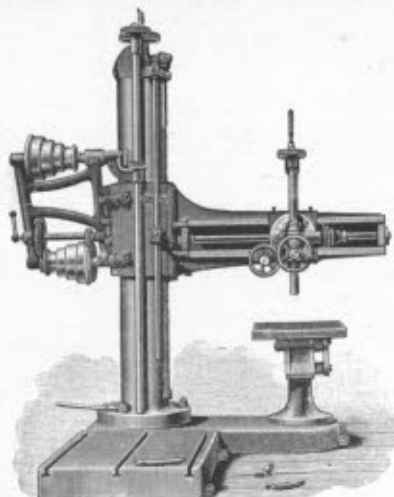
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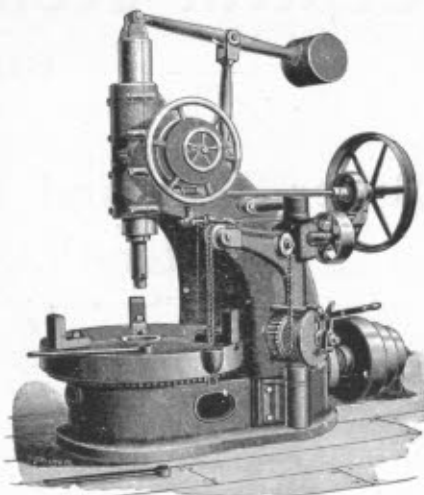
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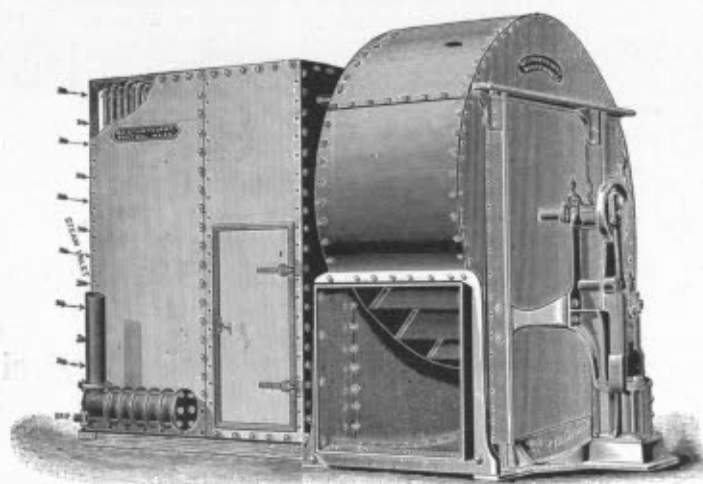
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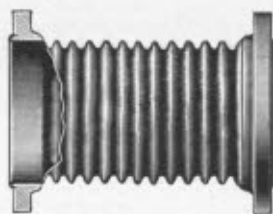


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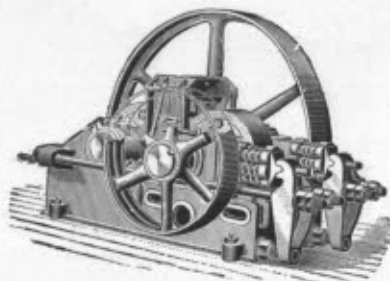
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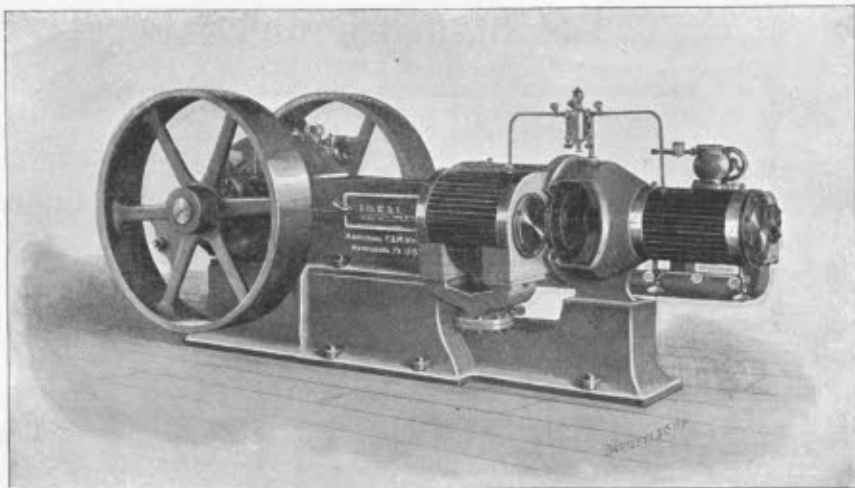
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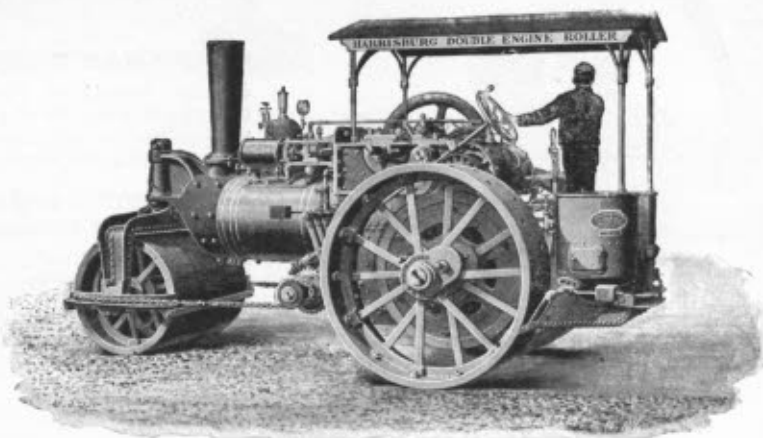
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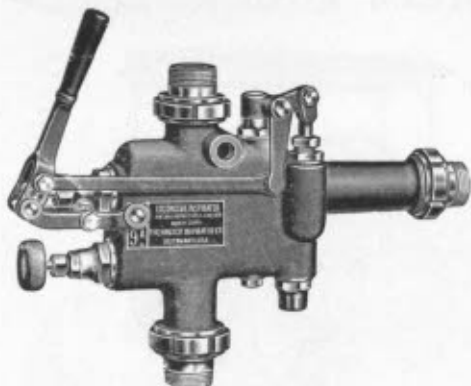
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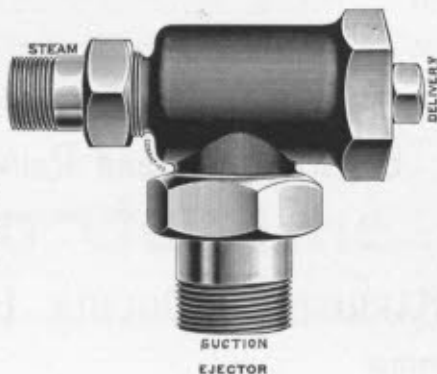
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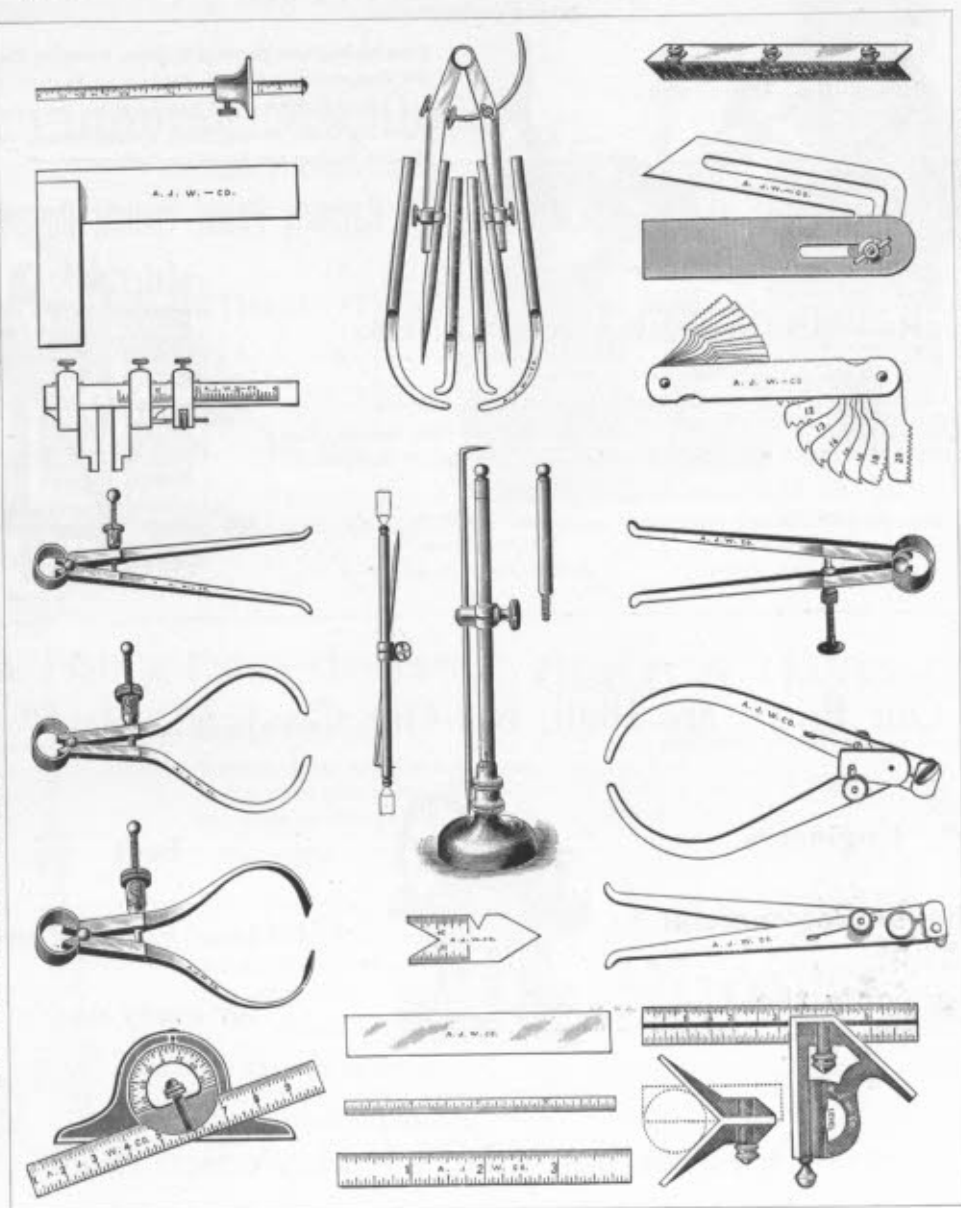
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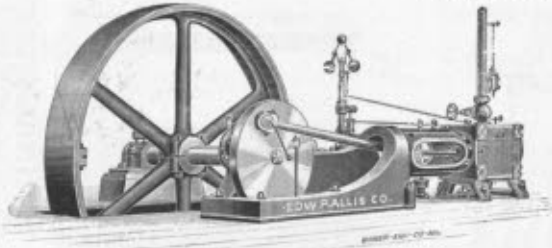
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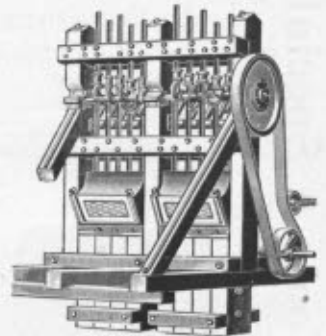
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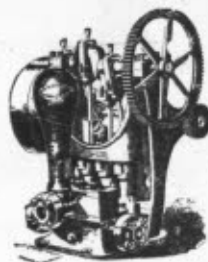


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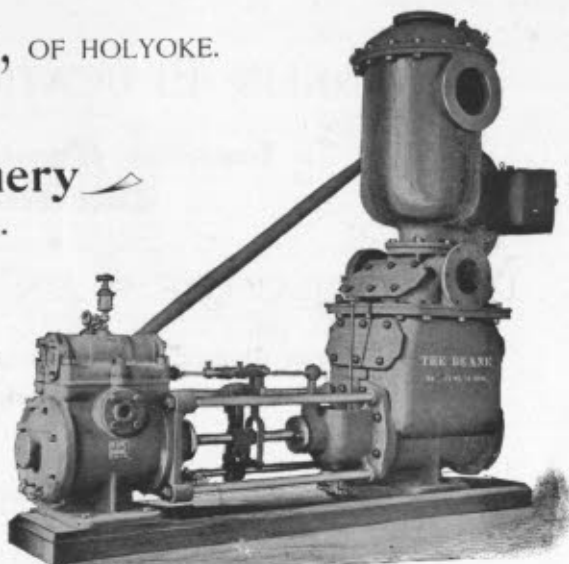
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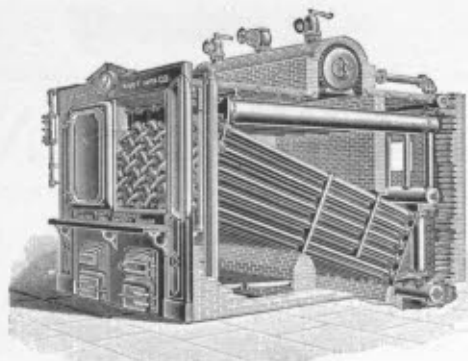
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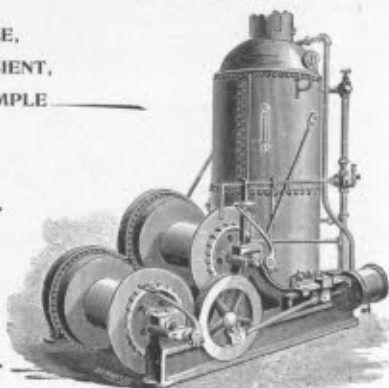
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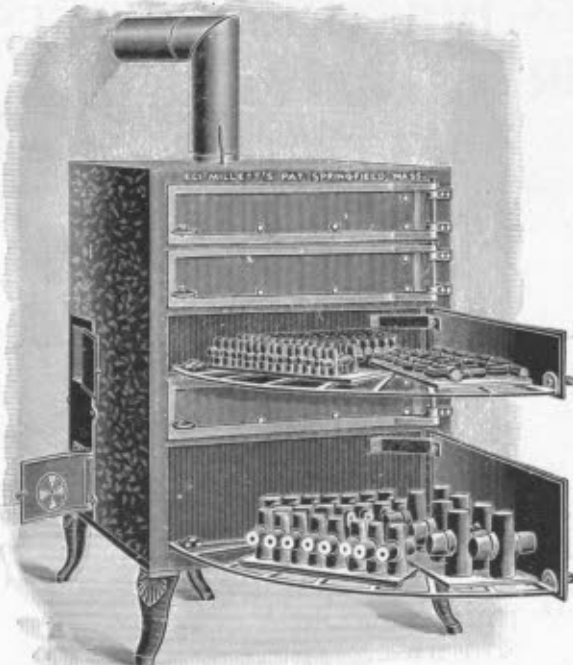


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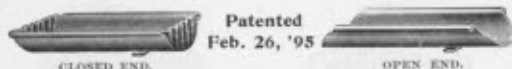
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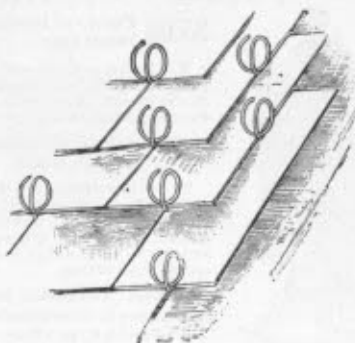
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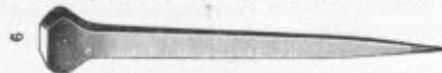
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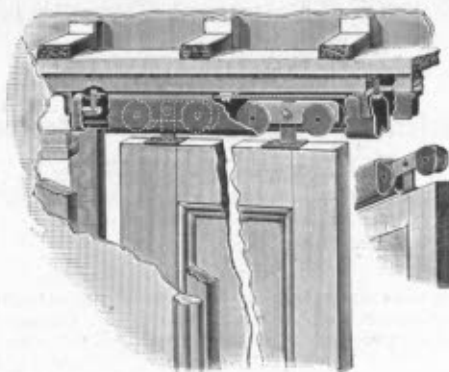
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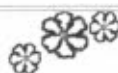
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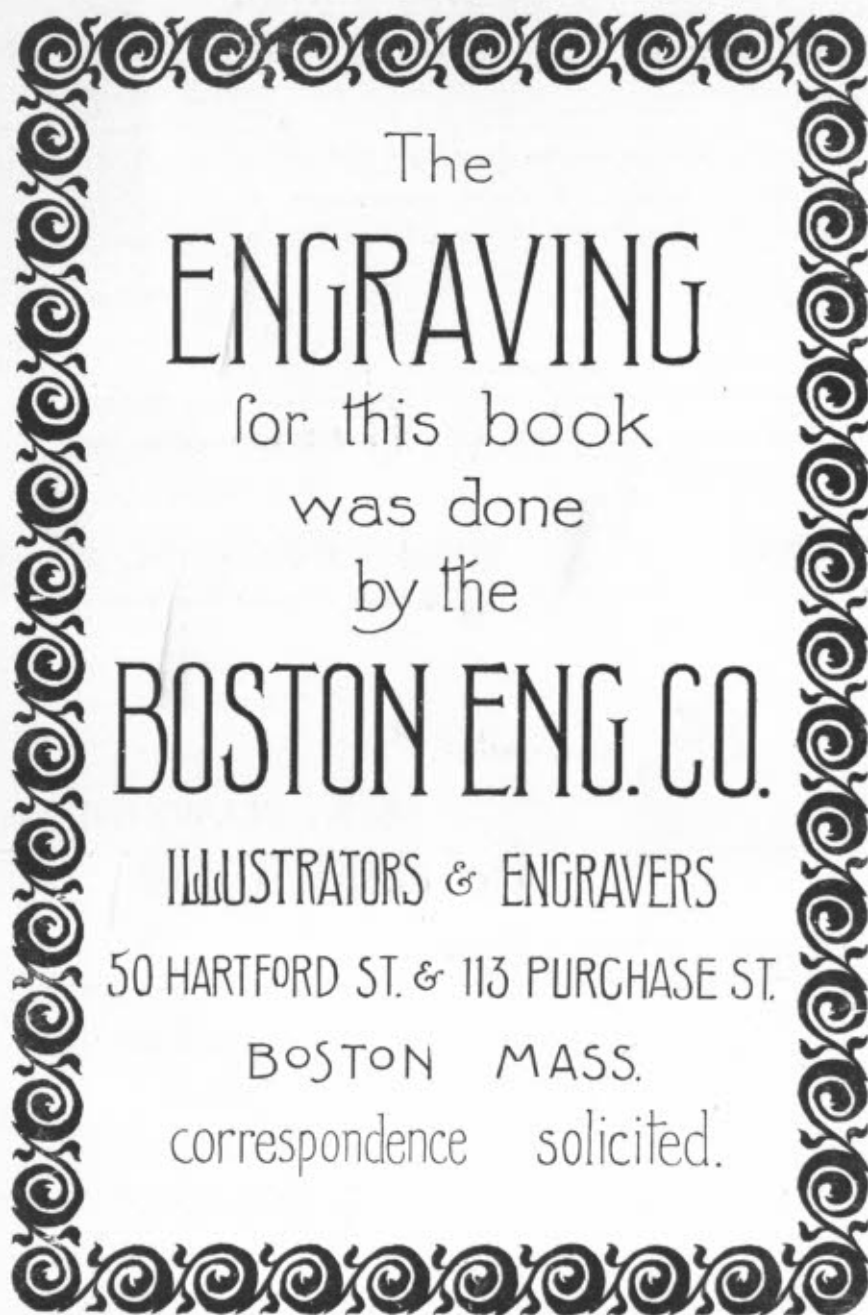
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