Whatever May be of Worth in this Book is

Dedicated

With Loyalty and Affection

to

Henry Smith Pritchett
HENRY SMITH PRITCHETT
President of
The Massachusetts Institute
of Technology
Technique
MDCCCCII

Board of Publication
C. A. Sawyer, Jr. Editor in Chief
I. R. Adams G. T. Seabury
Associate Editors
K. Lockett Society Editor
C. E. McCarthy Athletic Editor
L. S. Cates W. H. Farmer
Statisticians
A. C. Wood P. R. Smith and
W. R. Greeley Art Editors
A. E. Lombard Business Manager
J. C. Fruit Assistant Business Mgr

for the MDCCCCII Junior Class
<table>
<thead>
<tr>
<th>CONTENT</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEDICATION</td>
<td>2</td>
</tr>
<tr>
<td>GREETING</td>
<td>5</td>
</tr>
<tr>
<td>CALENDAR</td>
<td>6</td>
</tr>
<tr>
<td>MEMBERS OF THE CORPORATION</td>
<td>9</td>
</tr>
<tr>
<td>ADMINISTRATIVE OFFICERS</td>
<td>10</td>
</tr>
<tr>
<td>Officers of Instruction</td>
<td>11</td>
</tr>
<tr>
<td>Henry Smith Pritchett</td>
<td>43</td>
</tr>
<tr>
<td>The Classes</td>
<td>59</td>
</tr>
<tr>
<td>Fraternities</td>
<td>95</td>
</tr>
<tr>
<td>Local Societies</td>
<td>117</td>
</tr>
<tr>
<td>Athletics</td>
<td>123</td>
</tr>
<tr>
<td>Professional Societies</td>
<td>169</td>
</tr>
<tr>
<td>Clubs</td>
<td>181</td>
</tr>
<tr>
<td>Technology Publications</td>
<td>191</td>
</tr>
<tr>
<td>Musical Organizations</td>
<td>201</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>209</td>
</tr>
<tr>
<td>Class Dinners</td>
<td>227</td>
</tr>
<tr>
<td>Events of Junior and Graduation Weeks</td>
<td>232</td>
</tr>
<tr>
<td>Summer Schools</td>
<td>241</td>
</tr>
<tr>
<td>M. I. T. Paris Exhibition</td>
<td>249</td>
</tr>
<tr>
<td>Alphabet</td>
<td>253</td>
</tr>
<tr>
<td>Quotations</td>
<td>261</td>
</tr>
<tr>
<td>History of Tech</td>
<td>269</td>
</tr>
<tr>
<td>Verse</td>
<td>275</td>
</tr>
<tr>
<td>Professors' Dinner</td>
<td>281</td>
</tr>
<tr>
<td>Grinds</td>
<td>283</td>
</tr>
<tr>
<td>Statistics</td>
<td>301</td>
</tr>
<tr>
<td>Roster of Students</td>
<td>317</td>
</tr>
<tr>
<td>In Memoriam</td>
<td>346</td>
</tr>
<tr>
<td>Index</td>
<td>350</td>
</tr>
<tr>
<td>Buyers' Guide</td>
<td>356</td>
</tr>
</tbody>
</table>

Copyright, 1901, by The Technique Board of Nineteen Hundred & Two
Printed by CARL H. HEINTZEMANN, Boston
IN behalf of the Junior Class of the Massachusetts Institute of Technology, the Technique Board of 1902 presents, in this, the sixteenth volume of Technique.

The Board has endeavored to prepare a book which would be at once a medium of information concerning the Institute, and a source of pleasure, which in years to come would arouse pleasant recollections and refresh the memory.

We sincerely hope that he who finds his name in the Grinds or Quotations will laugh none the less heartily, bearing in mind that "If a thing is spoken in jest, it is not fair to take it in earnest."

Lastly, to the Members of the Faculty, Alumni and Undergraduates, who have by act or suggestion aided us in our undertaking, we wish to express here our sincere appreciation of their kindness.
APRIL, 1900

1. Dress Rehearsal of the Tech Show.
2. In Memoriam—Silas W. Holman.
4. TECHNIQUE Electorate Committee Election.
5. SPRING VACATION.
6. Opening of Junior Week. C. A. Sawyer, Jr., Elected Assistant Editor in Chief of THE TECH.
7. Annual Spring Concert and Dance of the Musical Clubs, Paul Revere Hall.
10. Technology Club Reception.

MAY

2. C. E. McCarthy elected Athletic Editor and K. Lockett elected Society Editor of TECHNIQUE, Nineteen Hundred and Two. Institute Committee Meeting.
5. A. E. Lombard elected Business Manager and J. C. Fruit elected Assistant Business Manager of TECHNIQUE, Nineteen Hundred and Two.
6. Baseball, Nineteen Hundred and Two vs. Dean Academy, at Franklin.
8. R. V. B. Blaisdell, A. C. Wood and P. R. Smith elected to the TECHNIQUE, Nineteen Hundred and Two Artistic Staff.
11. C. A. Sawyer, Jr., elected Editor in Chief of TECHNIQUE, Nineteen Hundred and Two.

JUNE

1. Reception by the Alumni Association to the Class of Nineteen Hundred, Exchange Club.
2. Musical Clubs' Concert to Class of Nineteen Hundred, Huntington Hall.
4. Class Day Exercises, Huntington Hall.
5. Technology Club Reception tendered President-Elect Pritchett. Technology Club.
6. President's Reception, Rogers Building.

SEPTEMBER

26. Opening of Fall Term. Electro-Chemical Course inaugurated.
28. Y. M. C. A. Reception, Rogers Building.
Mr. Crolius of Dartmouth chosen coach of the Football Team for Nineteen Hundred.

OCTOBER

1. First Regular Weekly Meeting of The TECH Board.
2. First Regular Meeting of the Architectural Society.
3. First Regular Meeting of the Class of Nineteen Hundred and Two
7. First meeting of the Class of Nineteen Hundred and Three.
8. H. H. Saylor elected Editor in Chief and J. C. Fruit elected Assistant Editor in Chief of *The Tech*.
11. First Regular Meeting of Society of Arts.
15. Election of Class Officers, Nineteen Hundred and Three. R. M. Field elected President.
17. First Meeting of Electrical Engineering Society.
19. First Meeting of Civil Engineering Society.
20. Football, M. I. T. vs. Stevens Institute, at South End Grounds.
21. Annual Fall Handicap Games, at Charlesbank.
23. Hare and Hounds Run at West Roxbury.
24. A. S. More elected Business Manager of *The Tech*.
25. W. R. Greeley elected to the Artistic Staff of *Technique*, Nineteen Hundred and Two.
26. Election of Class Officers, Nineteen Hundred and One. E. F. Lawrence elected President.

**NOVEMBER**

1. First Regular Meeting of the Mining Engineering Society.
2. Football, Nineteen Hundred and Three vs. M. A. H. S., at Franklin Field.
3. Football, Nineteen Hundred and Four vs. Thayer Academy, at Braintree.
4. Football, Nineteen Hundred and Three vs. Medford High, at Medford.
5. Annual Fall Bicycle Meet at Charles River Park.
7. Football, Nineteen Hundred and Three vs. Haverhill High, at Haverhill.
11. Football, Nineteen Hundred and Four vs. South Grovelands, at Haverhill.
12. Bust of General Walker placed in the Public Library.
13. Annual Sophomore-Freshman Football Game.
15. Professor Sedgwick's Reception in honor of President Pritchett.
17. Mandanam Club dinner at Hotel Thorndike.
20. Election of Class Officers, Nineteen Hundred and Four. C. L. Homer elected President.
22-27 Thanksgiving Recess.

**DECEMBER**

5. Musical Clubs' Fall Concert at Huntington Hall.
6. H. K. Hooker elected Captain of the Football Team.
7. Hare and Hounds Run.
8. Biological Journal Club Meeting.
9. Musical Clubs' Concert at Young's Hotel.
10. Booker T. Washington addressed the Students in Huntington Hall.
11. W. H. Farmer elected Assistant Editor in Chief of *The Tech*.
16. Senior Class ushered in the New Year on Rogers Steps.

**JANUARY, 1901**

1. Meeting of the Biological Journal Club.
3. Annual Luncheon of *The Tech* Board at the Savoy Hotel. Hare and Hounds Run.
4. Mandanam Club Dinner at the Thorndike Hotel.
5. Meeting of Biological Journal Club.
6. Senior Class Dinner at Thorndike Hotel, P. H. Parrock, Toastmaster.
8. Regular Meeting of the Society of Arts.
10. Mr. W. L. Smith Lectured before the Electrical Engineering Society.
11. Regular Meeting of the Electrical Engineering Society. Regular Meeting of Technology Y. M. C. A.
13. Annual Business Meeting of The Tech Board.
16. Commencement of Mid-year Vacation.

FEBRUARY
7. Second Term Begins.
11. The Class of Nineteen Hundred and Two presented Ex-President Bosworth with a gavel.
12. Regular Meeting of the Society of Arts.
13. Regular Meeting of the Civil Engineering Society.
14. Seniors’ Class Day Nominating Committee Election.
23. President Pritchett started on his Western Trip.
24. The Second Architectural Society Dinner, at Mieusset’s.
25. Reorganization of L’Avenir.

MARCH
4. W. H. Farmer elected Editor in Chief of The Tech.
8. Junior Class Inaugurated an Undergraduate Movement for Subscriptions to the Walker Memorial Gymnasium Fund.
9. Nineteen Hundred and One Class Day Officers and Class Day Committee elected.
11. Sophomore Class Dinner, Hotel Thorndike, J. L. Gilson, Toastmaster.
12. Nineteen Hundred and Three Endorsed and Subscribed to the Walker Memorial Gymnasium Fund, started by Nineteen Hundred and Two.
16. Regular Monthly Dinner of the Naval Architectural Society at Marlave’s.
17. M. I. T. Yacht Club, Election of Officers.
18. Musical Clubs’ Concert at Watertown.
19. Hare and Hounds Run at Wellesley Hills.
20. Annual Dinner of the Class of Eighteen Hundred and Ninety-six, Hotel Brunswick, President Pritchett being Special Guest.
21. Professor Richards entertained Junior Mining Engineers.
22. Musical Clubs’ Concert at West Newton.
23. Annual Dinner of the Mining Engineering Society, United States Hotel.
25. Champion Run of Hare and Hounds Club, at Wellesley Hills.

APRIL
9. The Fourth Annual Dinner of the Civil Engineering Society, United States Hotel.
24. Annual Spring Concert and Dance of the Musical Clubs, Paul Revere Hall.
25. Reception given by The Tech Board of Editors, The Tech Office.
27. Annual Spring Games.
30. Dress Rehearsal of the Tech Show.

MAY
The Members Of The Corporation

HENRY S. PRITCHETT  FRANCIS H. WILLIAMS
President  Secretary

GEORGE WIGGLESWORTH
Treasurer

John D. Runkle  Desmond Fitzgerald
William Endicott  Samuel Cabot
Howard A. Carson  Francis Blake
Charles J. Paine  Charles W. Hubbard
Charles Fairchild  Thomas L. Livermore
David R. Whitney  A. Lawrence Rotch
Alexander S. Wheeler  John R. Freeman
James P. Tolman  George A. Gardner
Howard Stockton  William H. Lincoln
Eliot C. Clarke  J. B. Sewall
Nathaniel Thayer  Thomas Gaffield
Charles F. Choate  Charles L. Lovering
Hiram F. Mills  A. Lawrence Lowell
Percival Lowell  James P. Munroe
Arthur T. Lyman  William L. Putnam
Charles Merriam  Charles G. Weld
Thornton K. Lothrop  Eben S. Draper
Charles C. Jackson  Robert S. Peabody
Samuel M. Felton  Elihu Thomson

On the Part of the Commonwealth
Hon. W. Murray Crane
Governor

Hon. Oliver W. Holmes, Chief Justice of the Supreme Court
Hon. Frank A. Hill, Secretary of the Board of Education
APRIL

30
'Championship Kun of the Five Horse
and Hounds Club at Ascot, Hills

1. Dress Regulation of the Tech. Scope
6. The 1st Annual Dinner of the
Electrical Engineering Society,
United States Hotel

MARCH

18
The American Club at Washington.

1. Ki. T. P., Fellowship of the
American Club at Washington.

2. Ki. T. P., Fellowship of the
American Club at Washington.

3. Ki. T. P., Fellowship of the
American Club at Washington.

4. Ki. T. P., Fellowship of the
American Club at Washington.

5. Ki. T. P., Fellowship of the
American Club at Washington.

6. Ki. T. P., Fellowship of the
American Club at Washington.

FEBRUARY

1. Annual Convention of New England
Institution and Allied Association.

2. Annual Convention of New England
Institution and Allied Association.

3. Annual Convention of New England
Institution and Allied Association.

4. Annual Convention of New England
Institution and Allied Association.

5. Annual Convention of New England
Institution and Allied Association.

6. Annual Convention of New England
Institution and Allied Association.
HENRY S. PRITCHETT  
President  
FRANCIS H. WILLIAMS  
Secretary  
GEORGE WIGGLESWORTH  
Treasurer  

John D. Runkle  
William Endicott  
Howard A. Carson  
Charles J. Paine  
Charles Fairchild  
David R. Whitney  
Alexander S. Wheeler  
James P. Tolman  
Howard Stockton  
Eliot C. Clarke  
Nathaniel Thayer  
Charles F. Choate  
Hiram F. Mills  
Percival Lowell  
Arthur T. Lyman  
Charles Merriam  
Thornton K. Lothrop  
Charles C. Jackson  
Samuel M. Felton  

Desmond Fitzgerald  
Samuel Cabot  
Francis Blake  
Charles W. Hubbard  
Thomas L. Livermore  
A. Lawrence Rotch  
John R. Freeman  
George A. Gardner  
William H. Lincoln  
J. B. Sewall  
Thomas Gaffield  
Charles L. Lovering  
A. Lawrence Lowell  
James P. Munroe  
William L. Putnam  
Charles G. Weld  
Eben S. Draper  
Robert S. Peabody  
Elihu Thomson  

On the Part of the Commonwealth  
Hon. W. Murray Crane  
Governor  

Hon. Oliver W. Holmes, Chief Justice of the Supreme Court  
Hon. Frank A. Hill, Secretary of the Board of Education
HENRY S. PRITCHETT
President

GEORGE WIGGLESWORTH
Treasurer

HARRY W. TYLER
Secretary

ROBERT P. BIGELOW
Librarian

ALBERT M. KNIGHT
Bursar
HENRY SMITH PRITCHETT, Ph.D. [Munich], LL. D. 
(Hamilton and Univ. of Penn.) 
A.B. and A.M. [Pritchett College.]

PRESIDENT of the Corporation, Massachusetts Institute of Technology; Made Assistant Professor in the Naval Observatory, Washington, 1878; Astronomer in Morrison Observatory, Glasgow, Mo., 1880; Assistant Professor of Mathematics and Astronomy in Washington University, St. Louis, Mo., 1881; Assistant Astronomer on Transit of Venus Commission, 1882; Professor of Astronomy in Washington University, 1884; Elected President of the Academy of Science, St. Louis, 1892; Made a Ph. D. in Munich, 1895; Chosen Superintendent of the U. S. G. and C. Survey, 1897; President of the Massachusetts Institute of Technology, 1900.

Report on Observations of the Total Eclipse of July 29, 1878; Determination of the Rotation Period of Jupiter from Observations of the Great Red Spot; Observations of the Satellites of Mars; Observations of Conjunctions of the Satellites of Saturn; A Determination of the Mass of Mars; A Determination of the Diameter of Mars from Micrometric Observations, with a Discussion of Systematic Errors; Ephemeris of the Satellites of Mars; Observations of Comets; Determination of the Longitude of the Mexican National Observatory; The Transit of Mercury, 1893; Report of Washington University Eclipse Expedition; The Solar Corona of 1889 with Discussion of the Photographs (Illustrated); Report on the Determination of Latitude and Longitude Morrison Observatory; A Formula for Predicting the Population of the United States; Observations of Double Stars and Personal Equation in Double Star Measure; Eclipses of Saturn’s Satellites and Their Use in Determining the Planet’s Diameter (with tables); Personal Equation in Time Observations; Lists of Observations of Double Stars, Comets and Small Planets in the Astro. Nachrichten, and a large number of publications in various Government Reports containing the results of Latitude, Longitude and Gravity determinations, Meridian Circle Observations, etc.; A Plan for an International Arc of the Meridian.

Residence, 337 Marlboro’ Street.

JOHN D. RUNKLE, Ph.D., LL.D., Walker Professor of Mathematics.
B.S., A.M., Harvard University, ’51; Ph.D., Hamilton College, ’67; LL.D., Wesleyan University, ’71.

ASSISTANT upon the American Ephemeris and Nautical Almanac, 1849-84; Editor Mathematical Monthly, 1858-64; Professor of Mathematics, Massachusetts Institute of Technology, from 1865; Acting President, 1868-70; President, 1870-78.


Residence, 15 Everett Street, Cambridge.
George A. Osborne, S.B., Professor of Mathematics.
Harvard S.S., '60.

Assistant Professor of Mathematics, U. S. Naval Academy, 1864-65; Professor of Mathematics, Massachusetts Institute of Technology, from 1866; Secretary of Faculty, 1868-71.
Author of Examples in Differential Equations (1886), Differential and Integral Calculus (1891), etc.
Residence, 249 Berkeley Street.

Robert H. Richards, S.B., Professor of Mining Engineering and Metallurgy.
M. I. T., '68, III.

Assistant in Chemistry, Massachusetts Institute of Technology, 1868-69; Instructor in Assaying and Qualitative Analysis, 1869-70; Assistant Professor of Analytical Chemistry, 1870-74; Professor of Mineralogy and Assaying, in charge of the Mining and Metallurgical Laboratories, 1874-77; Professor of Mining Engineering, 1873-84; Secretary of the Faculty, 1876-81; Professor of Mining Engineering and Metallurgy, from 1884; President of M. I. T. Alumni Association, 1873-76; President of the American Institute of Mining Engineers, 1886-87.
Residence, 52 Elliot Street, Jamaica Plain.

William H. Niles, Ph.B., A.M., Professor of Geology and Geography.

Professor of Physical Geography, Massachusetts Institute of Technology, 1871; Professor of Geology and Geography, Massachusetts Institute of Technology, from 1878; Lecturer on Geology, Wellesley College, 1882; Professor of Geology, Wellesley College, 1888; President of the Boston Society of Natural History, 1892-97; President of the Appalachian Mountain Club, 1886.
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 Momson, Mass. The Causes of the Recent Floods in Germany (1887), etc.
Residence, 10 Linden Street, Cambridge.
CHARLES R. CROSS, S.B., Thayer Professor of Physics and Director of the Rogers Laboratory.
M. I. T., '70, Sci. and Lit. Course.

INSTRUCTOR in Physics, Massachusetts Institute of Technology, 1870-71; Assistant Professor of Physics, 1871-73; Professor of Physics from 1875; in charge of Department of Physics from 1877; in charge of Course in Electrical Engineering since its establishment in 1882.

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

Residence, Upland Road, Brookline.

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

University of Virginia, '70.

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

Author of Applied Mechanics (1885), and of many papers in Transactions American Society Mechanical Engineers, Proceedings Society of Arts, Proceedings British Institution of Civil Engineers, Technology Quarterly, etc. Notes on Mechanical Engineering (1880), Notes on Friction (1887).

Residence, 22 West Cedar Street.

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

M. I. T., '77, 1.

STUDENT in Germany, 1857-58; Expert on Tenth U. S. Census, 1880-81; Instructor in Civil Engineering, Massachusetts Institute of Technology, 1881-85; Assistant Professor of Civil Engineering, 1885-87; Associate Professor, 1887-88; Professor from 1888; Engineer of Massachusetts Railroad Commissioners from 1887; Member Boston Transit Commission since 1894; ex-President Boston Society of Civil Engineers; ex-President of the Society for the Promotion of Engineering Education; Director Am. Soc. Civil Engineers, 1901-04.


Residence, 433 Marlboro' Street.

With Messrs. Ware & Van Brunt, Architects, 1864-65; Student in Paris, 1866-68; Assistant with Professor Ware at the Massachusetts Institute of Technology, 1869; Assistant Supervising Architect at Washington, 1870-73; in partnership with Mr. E. C. Cabot, of Boston, 1873-88; Professor of Architecture, Massachusetts Institute of Technology, from 1888; Advisory Architect to the Mayor of the City of Boston since 1896; Member of Art Commission, City of Boston.

Author of A Few Hints About Drainage (1888), Construction Details (1892), Notes on Limes, Cement, Mortars and Concretes (1893); editor of Municipal Architecture in Boston (1898), etc.

Residence, 195 Marlboro Street.

William T. Sedgwick, Ph.B., Ph.D., Professor of Biology.

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

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

Assistant Professor of Biology, Massachusetts Institute of Technology, 1883-84, Associate Professor, 1884-91; Professor from 1891; Biologist, State Board of Health, 1888-96; Chairman, Pauper Institutions Trustees, City of Boston, 1897-99; President, Massachusetts Civil Service Reform Association, 1900 and 1901; President, Society of American Bacteriologists, 1901; President, American Society of Naturalists, 1904; Curator, Lowell Institute, since 1897.

Author of General Biology (1886), New Edition (1890), Biological Examination of Water (1888), Sanitary Condition of the Water Supply of Lowell, Mass. (1891), The Purification of Drinking Water by Sand Filtration (1892), Modern Scientific Views of the Cause and Prevention of Asiatic Cholera (1892), numerous Reports to the State Board of Health of Massachusetts on Epidemics of Typhoid Fever Caused by Infected Water, Milk, etc., several papers on Education, various articles in Wood's Reference Handbook of Medical Science, etc.

Residence, 20 Chestnut Street.

Davis R. Dewey, A.B., Ph.D., Professor of Economics and Statistics.

University of Vermont, '79; A. M.; 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, 1881-85; Student and Fellow at Johns Hopkins University, 1883-86; Instructor, Massachusetts Institute of Technology, 1887-88; Assistant Professor, 1888-91; Associate Professor, 1889-92; Professor from 1892; Secretary American Statistical Association from 1890; Editor of its publications from 1887; Appointed, 1894-95, Chairman of Board to Investigate the Subject of the Unemployed in Massachusetts; Member of Publication Committee of American Economic Association since 1895; Appointed member of Board to Investigate Charitable and Reformatory Interests and Institutions of Massachusetts, 1896; Member, Department of Statistics, Boston, 1897-.

Author of a Syllabus on Political History since 1845 (1887), Syllabus of Lectures on Economic Questions of Commerce (1873), Suicides in New England, associated in Report on Unemployed, Graphic Statistics, Report on Charitable Institutions, etc.; Editor of "Discussions in Economics and Statistics" by Francis A. Walker, 2 vols., 1859; Contributor to "Dictionary of Political Economy." 

Residence, 52 Elliot Street, Jamaica Plain.
WEBSTER WELLS, S.B., Professor of Mathematics.
M. I. T., '73, I.

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

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

Abroad.

Cecil H. Peabody, S.B., Professor of Marine Engineering and Naval Architecture.
M. I. T., '77, II.

WITH the Western Union Railroad, 1858; Professor of Mathematics and Engineering, Imperial Agricultural College, Japan, 1858-80; 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 and Naval Architecture from 1893.

Author of Notes on Governors and Fly Wheels (1883), Notes on Valve Gears (1884), Thermodynamics of the Steam Engine and other Heat Engines (1886), Tables of the Properties of Saturated Steam (1885), Valve Gears for Steam Engines (1890), Steam Boilers (1897, with E. F. Miller), Papers to Scientific Societies, Manual of the Steam Engine Indicator (1900), etc.

Residence, 10 Columbia Street, Brookline.

Harry W. Tyler, S.B., Ph.D., Professor of Mathematics.
M. I. T., 84, V.
S.B., M. I. T., '84; Ph.D., Erlangen, '89.

Assistant, Massachusetts Institute of Technology, 1884-86; Instructor, 1886-90; Assistant Professor, 1890-92; Associate Professor, 1892-95; Secretary of the Faculty, 1895-99, and from 1894; Professor of Mathematics, 1895.

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

Residence, Gray Cliff Road, Newton Centre.
ARLO BATES, LITT. D., Professor of English.
Bowdoin, '76; A. Δ. Φ.; Φ. B. K.

EDITOR of Broduide, 1878-79; Editor of Boston Courier, 1880-83; Correspondent of Providence Journal, Chicago Tribune, Book Buyer, etc., 1880-83; Professor of English, Massachusetts Institute of Technology, from 1883.
Residence, 62 Chestnut Street.

D. DESPRADELLE, Professor of Architectural Design.

Received first promotion at the Ecole des Beaux-Arts, 1882; many of the prizes at the Ecole des Beaux-Arts and Institut de France; received diplomas from Ecole des Beaux-Arts and Société centrale des Architectes français; took part in the Concours de Rome four times, and classed first with title of First Second Grand Prix in 1885; Lauréat of the Institut de France; Lauréat of the Salon, first medal in 1900, hors concours, purchased by the government of France; Officier d'Académie; Assistant Inspector States Buildings and National Palaces, and under this title helped in the Building of the New Ministry of Agriculture and Commerce, National Library, Bank of France, the mansion of M. Wilson and M. Grévy (ex-President), and various other public and private edifices.
Residence, 382 Commonwealth Avenue.

PETER SCHWAMB, S.B., Professor of Mechanism and Director of the Workshops.
M. I. T., '78, II.

Graduate Student, Massachusetts Institute of Technology, 1878-79; Draughtsman, Howe Scale Co., Rutland, Vt., 1879-80; Draughtsman, Hinkley Locomotive Co., Boston, 1880-81; Instructor, Massachusetts Institute of Technology, 1881-84; Assistant Professor, 1884-88; Associate Professor, 1888-90; Professor of Mechanism, 1897.
Author of Notes on the Elements of Mechanism (1885), Notes on Gearing (1888), etc.
Residence, 27 Water Street, Arlington.
C. Frank Allen, S.B., M. Am. Soc. C. E., Professor of Railroad Engineering.
M. I. T., '72, I.

Assistant Engineer, Providence Waterworks, 1872-73; Assistant Engineer, Providence Sewerage, 1873-75; Assistant Engineer, Newton Waterworks, 1875-76; Assistant Engineer, 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., 1881-83; Professor of the Society for the Promotion of Engineering Education, 1895-97; President of Massachusetts Highway Association, 1898; President Boston Society of Civil Engineers, 1896-97; Vice-President of Society for Promotion of Engineering Education, 1898-99; Member of Executive Committee, New England Railroad Club, 1899-1904; Member of Committee of Publication Technology Review, 1899-1901; Assistant Professor Massachusetts Institute of Technology, 1887-86; Associate Professor, 1886-91; Professor from 1892.

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

Alfred E. Burton, S. B., Professor of Topographical Engineering.
Bowdoin, '78; D. K. E., F. B. K.

Land Surveyor, 1878-79; Topographical Draughtsman and Topographer on U. S. Coast and Geodetic Survey, 1879-82; appointed Commissioner on Massachusetts Topographical Survey, 1895; in charge of Scientific Expedition to Umanak, Greenland, summer of 1886; in charge of Eclipse Expedition to Washington, Georgia, May, 1900; Instructor in Topographical Engineering, Massachusetts Institute of Technology, 1882-84; Assistant Professor, 1884-85; Associate Professor, 1885-86; Professor from 1886.
Residence, 58 Webster Street, West Newton.

Dwight Porter, Ph.B., Am. Soc. C. E., Professor of Hydraulic Engineering.
Yale S. S., '80; Berzelius Society.

Special Agent, Tenth Census U. S., Report upon Water Power, 1888-89; Instructor in Mathematics, Massachusetts Institute of Technology, 1883-85; Instructor in Civil Engineering, 1885-87; Assistant Professor of Civil Engineering, 1887-89; Associate Professor of Hydraulic Engineering, 1890-96; Professor from 1896.

Residence, 149 Hawthorne Street, Malden.
HEINRICH O. HOFMANN, E.M., Met.E., Ph.D., Professor of Mining and Metallurgy.

E.M., Met.E., Prussian School of Mines, Clausthal, '77; Ph.D., Ohio University, '89.

PrACTICING Metallurgist, 1877-85; Private Assistant to Prof. R. H. Richards, and Lecturer on Metallurgy, Massachusetts Institute of Technology, 1887-88; Professor of Metallurgy and Assaying, Dakota School of Mines, 1887-85; Assistant Professor of Mining and Metallurgy, Massachusetts Institute of Technology, 1889-94; Associate Professor of Mining and Metallurgy, 1891-98; Professor of Metallurgy from 1898.

Author of Gold Milling in the Black Hills (1888), The Dry Assay of Tin Ores (1890), Recent Progress in the Treatment of Argentiferous Lead Ores (1892-1900); Metallurgical Lead Exhibits at the Columbian Exposition (1893), Some Experiments on the Fusibility of Fire Clays (1893), Further Experiments on the Fusibility of Fire Clays (1895); The Equipment of Mining and Metallurgical Laboratories (1896); The Production of Illuminating Gas and Coke in By-Product Ovens (1898); Modification of Birkof's Method for determining the Fusibility of Fire Clays (1898); Influence of size of Particles on Resistance of Fire Clays to Heat Extremes (1898); The Temperature at which certain Ferrous and Calcic Silicates are Found in Fusion and the Effect upon these Temperatures of the Presence of Certain Metallic Oxides; and The Metallurgy of Lead and the Desilverization of Base Bullion (1893-96), etc.

Residence, Robinwood Avenue, Jamaica Plain.

HENRY P. TALBOT, S.B., Ph.D., Professor of Analytical Chemistry.

M. I. T. '85, V.
S.B., M. I. T., '85; Ph.D., University of Leipsic, '90.

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

Author of: Ueber das Verhalten der Tigliinsäure und Angelicasäure gegen Bromwasserstoff und Jodwasserstoff (1890); Notes on the action of Hybromic and Hydriodic Acids on Tigliic and Angelic Acids (1891); An Index to the Literature of Angelic and Tigliic Acids from 1842 to 1892; Notes on the Properties of Hydrogen Peroxide Solutions (with H. R. Moody); An Introductory Course of Quantitative Chemical Analysis (1897); and other Chemical Papers.

Residence, 28 Balcarres Road, West Newton.

ARTHUR A. NOYES, S.M., Ph.D., Professor of Theoretical and Organic Chemistry.

M. I. T., '86, V.
S.M., M. I. T., '87; Ph.D., Leipsic, '90.

Assistant in Analytical Chemistry, Massachusetts Institute of Technology, 1887-88; Instructor, 1897-93; Assistant Professor, 1893-97; Associate Professor of Organic Chemistry from 1897-99; Professor of Theoretical and Organic Chemistry from 1899.

Author of a Detailed Course of Qualitative Analysis of Laboratory Experiments on the Class Reactions and Identification of Organic Substances, and of numerous articles in scientific papers; Editor of the Review of American Chemical Research.

Residence, 76 Westland Avenue, Boston.
A. Rambeau, Ph.D., Professor of Modern Languages.
B.A., Wittenberg, 1871; Student at Halle, Marburg, and Paris, 1871-74, and, during different periods, after 1876; Ph.D., 1877, Licentiate, 1879, Marburg.

Instructor in English, University of Marburg, 1878-79; Professor of French and English in several colleges, 1879-92, at last, in Hamburgh; Associate in Romance Languages, 1893-94, and Associate Professor of Romance Languages, 1894-95, Johns Hopkins University, Baltimore; Professor of Modern Languages, Massachusetts Institute of Technology, from 1899.

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

Residence, 80 Harold Street, Roxbury.

Thomas E. Pope, A.M., Professor of General Chemistry.
Harvard University, '69.

Instructor in Chemistry, Massachusetts Institute of Technology, 1874-76; Professor of Chemistry, Iowa Agricultural College, 1876-84; Assistant Professor of General Chemistry, Massachusetts Institute of Technology, 1894-95; Associate Professor, 1895-1900; Professor of General Chemistry from 1900.

Residence, Rockland Street, Brighton.

Eleazer B. Homer, S.B., Associate Professor of Architecture.
M. I. T. '85, IV.

Instructor in Architecture, Massachusetts Institute of Technology, 1887-90; Assistant Professor, 1890-93; Associate Professor from 1893.

Residence, Belmont.
GEORGE T. DIPFOLD, Ph.D., Associate Professor of Modern Languages.
Boston University, '83.

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

Author of the Great Epics of Mediaeval Germany, Translator of Emanuel Geibel’s Brunhild, Deutsche Litteraturdenkmale des 18 Jahrhunderts, Theories as to the Original Home of the Indo-European Race, Richard Wagner’s Ring of the Nibelung Explained, and in part Translated, German Scientific Reader, etc.
Residence, 810 Beacon Street.

CHARLES F. A. CURRIER, A.B., A.M., Associate Professor of History.
Harvard University, '87; Φ. B. K.

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

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

LINUS FAUNCE, S.B., Associate Professor of Drawing.
M. I. T., ’77, II.

DRAWTSMAN for Superintendent of Bridges, P. C. & St. L. R. R., 1875-79; Chief Clerk Car Shops, P. C. & St. L. R. R., 1879-82; in charge of Waterworks and Signals, N. Y. & N. E. R. R., 1882-84; Assistant Professor Massachusetts Institute of Technology, 1884-96; Associate Professor from 1896; Author of Descriptive Geometry, Mechanical Drawing, etc.
Residence, Bellevue Street, West Roxbury.
DANA P. BARTLETT, S.B., Associate Professor of Mathematics.
M. I. T., '86, VI.

ASSISTANT in Mathematics, Massachusetts Institute of Technology, 1886-87; Instructor in Mathematics, 1888-91; Assistant Professor of Mathematics, 1891-'98; Associate Professor from 1898; Assistant in Observatory of Harvard College, 1887.

Author of General Principles of the Method of Least Squares.
Residence, 486 Columbus Avenue.

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

INSTRUCTOR, University of Illinois, 1880-83; Assistant Professor Engineering and Mathematics, 1883-85; Instructor in Applied Mechanics, Massachusetts Institute of Technology, 1885-89; Assistant Professor of Applied Mechanics, from 1889-'93; Associate Professor, from 1893.

Author of Notes on Graphic Statics, and papers published in Technology Quarterly and other Engineering periodicals.
Residence, 170 Oakleigh Road, Newton.

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

ASSISTANT, Massachusetts Institute of Technology, 1885-87; Instructor, 1887-91; Assistant Professor of Mechanism, 1891-99; Associate Professor from 1899.
Residence, Payson Park, Belmont.
EDWARD F. MILLER, S.B., M. AM. SOC. M. E., Associate Professor of Steam Engineering.
M. I. T., '86, II.

ASSISTANT, Massachusetts Institute of Technology, 1886-'88; Instructor, 1888-'92; Assistant Professor of Steam Engineering, 1892-'99; Associate Professor from 1899.
Author of a number of Articles printed in the Transactions American Society of Mechanical Engineers, the Technology Quarterly, Machinery, and other engineering papers, "Steam Boilers" (with C. H. Peabody), etc.
Residence, 338 Ward Street, Newton Centre.

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

STUDENT Assistant in Paleontology, 1875-'76; Assistant in Paleontology, 1876-'78; Assistant in Geology, 1878-'80; Instructor in Geology, 1880-'83; Assistant Professor of Mineralogy and Lithology, 1883-'92; Assistant Professor of Structural and Economic Geology from 1892.
Residence, 9 Park Lane, Jamaica Plain.

FRANK VOGEL, A.B., A.M., Associate Professor of Modern Languages.
Harvard University, '87; Δ. Y.

PROFESSOR of Modern Languages, Mitchell’s Boys’ School, Billerica, Massachusetts, 1887-'88; Instructor in Modern Languages, Massachusetts Institute of Technology, 1888-'92; Assistant Professor of Modern Languages, 1892-'90; Associate Professor from 1900; Graduate 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; Member of Boston School Committee, 1901-'04; Editor and Annotator of Chamisso’s Peter Schlemihls Wundersame Geschichte, and other publications.
Residence, Robinwood Avenue, opp. Enfield Street, Jamaica Plain.
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; Member of the American Institute of Electrical Engineers, 1893; Consulting Electrical Engineer of the Insurance Department of the Patient Mutual Insurance Companies, 1894. Residence, West Newton.

FREDERICK H. BAILEY, A.B., A.M., Assistant Professor of Mathematics.
Harvard University, '87; F. B. K. A. B., Harvard University, '87; A.M., Harvard University, '89.

ASSISTANT in Mathematics, Harvard University, 1889-91; Instructor in Mathematics, Massachusetts Institute of Technology, 1891-93; Assistant Professor from 1893. Author of Plane and Solid Analytic Geometry (with Professor Woods, 1897). Residence, 73 Wendell Street, Cambridge.

FRED L. BARDEWELL, S.B., Assistant Professor of General Chemistry.
University of Minnesota, '81; M. I. T., '84, V.

ASSISTANT in General Chemistry, 1884-86; Instructor in General Chemistry, 1886-94; Assistant Professor from 1894. Residence, 11 Chamblet Street, Roxbury.
Augustus H. Gill, S.B., Ph.D., Assistant Professor of Gas and Oil Analysis.
M. I. T., '84, V.
S.B., M. I. T., '84; Ph.D., Leipzig, '90.

ASSISTANT in General and Sanitary Chemistry, Massachusetts Institute of Technology, 1884-86; Instructor, 1887-88; Water Analyst State Board of Health, 1888; Instructor in Gas Analysis, Massachusetts Institute of Technology, 1893-94; Assistant Professor from 1894.

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

Residence, Canton.

S. Homer Woodbridge, A.M., Associate Professor of Heating and Ventilation.
Williams College, '73.

STUDENT at the Massachusetts Institute of Technology, 1874; Instructor in Physics, 1882-95; Assistant Professor, 1895-1900; Associate Professor from 1900.

Residence, Otis Street, West Newton.

Harry E. Clifford, S.B., Assistant Professor of Theoretical Physics.
M. I. T., '86, VI.; Θ. Ξ.

ASSISTANT in Physics, 1886-88; Instructor in Theoretical Physics, 1888-95; Assistant Professor in Theoretical Physics from 1895; Assistant in Harvard College Observatory, 1887.

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

Residence, Newton Centre.
Richard W. Lodge, Assistant Professor of Mining and Metallurgy.
M. I. T., '79, III.

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

Residence, 205 Walnut Street, Brookline.

Frederick S. Woods, A.B., A.M., Ph.D., Assistant Professor of Mathematics.

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

Author of Über Pseudominimalflächen, 1893; Plane and Solid Analytic Geometry (with Professor Bailey, 1897); Editor of Annals of Mathematics.

Residence, 21 Church Street, Newton.

Theodore Hough, A.B., Ph.D., Assistant Professor of Biology.
A.B., Johns Hopkins University, '86; Ph.D., Johns Hopkins University, '93.

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

Residence, 72 Pinckney Street, Boston.
TECHNIQUE

WILLIAM Z. RIPLEY, S.B., Ph.D., Associate Professor of Sociology and Economics.
M. I. T., '90, I.

GRADUATE Student, Massachusetts Institute of Technology, 1890-91; University Fellow, Columbia College, 1892-93; Instructor in Economics, Massachusetts Institute of Technology, 1893-95; Assistant Professor, 1895-1900; Associate Professor from 1900; Expert on Transportation, U. S. Industrial Commission, 1900.
Residence, Newton Centre.

JOSEPH J. SKINNER, C.E., Ph.D., Assistant Professor of Mathematics.
Yale, '69.
Ph.B., '69, C.E., '74, Ph.D., '76, Yale.

INSTRUCTOR in Engineering and Mathematics (and for part of the time in Physics and French), Sheffield Scientific School, Yale, 1873-81; Computer and Draughtsman, Statistical Atlas of Ninth Census, 1873-75; Manager and Treasurer of the American Electric Co., New Britain, 1881-83; Instructor in Mathematics, Massachusetts Institute of Technology, 1885-90; Assistant Professor from 1890. Author of a book on Approximate Computations, and of some papers in scientific journals.
Residence, Newton Centre.

GEORGE H. BARTON, S.B., Assistant Professor of Geology.
M. I. T., '80, III.

ASSISTANT in Drawing, 1880-81; Hawaiian Government Survey, 1881-83; Assistant in Mineralogy and Lithology, 1883-88; Instructor in Determinative Mineralogy, 1888-89; Instructor in Geology, 1889-90; Assistant Professor of Geology from 1886. Author of Outline of Elementary Lithology and of various papers on geology of Massachusetts, Hawaii, Labrador, and Greenland, published in Proceedings of Boston Society of Natural History, American Journal of Science, American Geologist, Science, Technology Quarterly, etc.
Residence, 16 Lexington Avenue, Cambridge.
Arthur G. Robbins, S.B., Assistant Professor of Highway Engineering.
M. I. T., '86, I.

Assistant, Civil Engineering, 1886-88; Instructor in Civil Engineering, 1888-93; Instructor in Highway Engineering, 1893-96; Assistant Professor from 1896.

Residence, 60 Webster Street, West Newton.

William H. Lawrence, S.B., Assistant Professor of Architecture.
M. I. T., '91, IV.

Instructor in Architecture, 1891-96; Assistant Professor from 1896; Author of Elements of Shades and Shadows, Principles of Perspective.
Residence, 34 Summer Street, Dorchester.

Frank A. Laws, S.B., Assistant Professor of Electrical Measurements.
M. I. T., '89, VI.

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

Residence, Brockton.
TECHNIQUE

Harry M. Goodwin, S.B., Ph.D., Assistant Professor of Physics.

S.B., M. I. T., '90, VIII.; Ph.D., Leipzig, '93.

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

Author of Laboratory Notes on Physico-Chemical Measurements; Some Experimental Researches in Acoustics, 1890; Studien zur Voltsche Kette, 1892; The Fundamental Laws of Electrolytic Conduction, 1893; and various papers in scientific journals.

Residence, 232 Townsend Street, Roxbury.

John O. Sumner, A.B., Assistant Professor of History.

Harvard, '87.

Instructor, Massachusetts Institute of Technology, 1894; Assistant Professor from 1897.

Residence, 158 Mt. Vernon Street.

Henry G. Pearson, A.B., Assistant Professor of English.

Harvard, '93; Θ. Ξ.; Φ. B. K.

Instructor, Massachusetts Institute of Technology, 1893; Assistant Professor from 1895.

Author of The Principles of Composition.

Residence, Weston, Mass.
TECHNIQUE

WILLIS R. WHITNEY, S.B., PH.D., Assistant Professor of Theoretical Chemistry.
M. I. T., '90, V.
Assistant in Chemistry, Massachusetts Institute of Technology, 1892–94; Instructor in Chemistry, 1896–1900; Assistant Professor of Theoretical Chemistry from 1900; Studying in Leipzig, 1894–96; Studying in Paris in 1896.
Translator of Le Blanc’s Electro-Chemistry and Author of several papers in Scientific Journals; Electro-Chemist for the General Electric Company. Residence, 73 Pinckney Street.

LOUIS DERR, M.A., S.B., Assistant Professor of Physics.
Amherst, '89; M. I. T., '92, VI; Δ. Y.; Φ. B. K.
B.A., Amherst, '89; M.A., Amherst, '92; S.B., M. I. T., '92.
Assistant in Physics, Massachusetts Institute of Technology, 1892–93; Instructor in Physics, 1893–1900; Assistant Professor of Physics from 1900.
Author of Notes on Methods of Telegraphy; Notes on Dynamo Design, and a number of Articles in various Technical publications. Residence, 81 Centre Street, Brookline.

GEORGE V. WENDELL, S.B., PH.D., Assistant Professor of Physics.
M. I. T., '92, VIII; Δ. K. E.
S.B., M. I. T., '92; Ph.D., Leipzig, '98.
Assistant in Physics, Massachusetts Institute of Technology, 1892–93; Instructor in Physics, 1893–1900; Savage Fellow of Massachusetts Institute of Technology, studying in Leipzig, 1896–98; Honorary Fellow of Massachusetts Institute of Technology, studying in Berlin, 1898–99; Assistant Professor of Physics from 1900.
Author of Ueber die Rotations dispersion der Weinsäure und des Terpeninöls; Paper on some Experiments with the Phonograph relating to the Vowel Theory of Helmholtz; Secretary of Society of Arts, 1899–1901, Massachusetts Institute of Technology. Residence, 800 Massachusetts Avenue, Cambridge.
TECHNIQUE

FRANK H. THORP, S.B., Ph.D., Assistant Professor of Industrial Chemistry.
M. I. T., '89, V.
S. B., M. I. T., '89; Ph. D., University of Heidelberg, '93.
Assistant in Industrial Chemistry, Massachusetts Institute of Technology, 1889-91; Instructor, 1894-1900; Assistant Professor, 1900.
Author of Ueber die Oxime der substituierten Benzophenone (1893); Experiments on the Production of Boiled Linseed Oil (1896); A Review of Some Improvements in Chemical Industry (1896); Inorganic Chemical Preparations (1897); Outlines of Industrial Chemistry (1898).
Residence, Oriole Street, West Roxbury.

CHARLES E. FULLER, S.B., Assistant Professor of Mechanical Engineering.
M. I. T., '92, II.
Assistant in Mechanical Engineering, Massachusetts Institute of Technology, 1892-94; Instructor of Mechanical Engineering, 1894-1900; Assistant Professor of Mechanical Engineering from 1900.
Residence, Wellesley.

WILLIAM A. JOHNSTON, S.B., M. Am. Soc. M.E., Assistant Professor of Mechanical Engineering.
M. I. T., '92, II.
Assistant in Mechanical Engineering, Massachusetts Institute of Technology, 1892-94; Instructor, Mechanical Engineering, 1894-1900; Assistant Professor of Mechanical Engineering from 1900.
Residence, Belmont.
TECHNIQUE

CHARLES F. PARK, S.B., Assistant Professor of Mechanical Engineering.
M. I. T., ’92, II.

ASSISTANT in Mechanical Engineering, Massachusetts Institute of Technology, 1892-94; Instructor of Mechanical Engineering, 1894-1900; Assistant Professor of Mechanical Engineering from 1900. Residence, 23 Prospect Street, Taunton.

CHARLES L. NORTON, S.B., Assistant Professor of Heat Measurements.
M. I. T., ’93, VI.
S.B., M. I. T., ’93.

ASSISTANT in Physics, Massachusetts Institute of Technology, 1893-95; Instructor in Physics, 1895-99; Instructor in Heat Measurements, 1899-1900; Assistant Professor from 1900. Contributed to various publications, Papers on Fire Protection, Heat Conduction, The Protection of Steam Heated Surfaces, The Application of X-rays to Medicinal Diagnoses, The Illumination of Interiors by Ribbed and Prismatic Glass, Electric Furnaces, etc. Residence, Union Street, Manchester.

HENRY FAY, A.B., Ph.D., Assistant Professor of Analytical Chemistry and Metallurgy.
A.B., Lafayette College, ’89; Ph.D., Johns Hopkins University, ’95.

INSTRUCTOR in Analytical Chemistry, Massachusetts Institute of Technology, 1895-1900; Assistant Professor from 1900. Author of the Action of Light on Some Organic Acids in the Presence of Uranium Salts; The Effect of Annealing upon the Physical Properties and the Microstructure of a Low Carbon Steel; The Nature of Lead Amalgams, and various other chemical papers. Residence, 16 Marlboro’ Street.
JAMES F. NORRIS, A.B., Ph.D., Assistant Professor of Organic Chemistry.
Johns Hopkins University, '92; Ph. B. K.
A.B., Johns Hopkins, '92; Ph.D., Johns Hopkins, '95.

ASSISTANT in Chemistry, Massachusetts Institute of Technology, 1895-96; Instructor in Chemistry, 1896-1900; Assistant Professor from 1900.
Author of Papers on Chemistry published in the American Chemical Journal.
Residence, 16 Marlboro’ Street.
Henry K. Burrison, S.B. . . . Instructor in Mechanical Drawing
   M. I. T., ’75, I.
   Residence, 26 Lincoln Park, West Newton

Ellen H. Richards, A.M., S.B. . . . Instructor in Sanitary Chemistry
   M. I. T., ’73, V.; A.M., Vassar, ’70
   Residence, 32 Eliot Street, Jamaica Plain

Charles L. Adams . . . . . Instructor in Freehand Drawing
   Residence, 256 Lamartine Street, Jamaica Plain

Peter S. Burns, Ph.D. . . . . . Instructor in General Chemistry
   Iowa State College, ’86; Δ. T. Δ.
   Residence, Milton

John W. Smith . . . . . Instructor in Industrial Chemistry and Textile Coloring
   Residence, 7 Brookfield Street, Roslindale

Nathan R. George, Jr., A.M. . . . . Instructor in Mathematics
   Harvard, ’90; Θ. Δ. X.; Φ. B. K.
   Residence, 245 West Newton Street

William Lincoln Smith, S.B. . . . . Instructor in Electrical Engineering
   M. I. T., ’90, VI.
   Residence, Concord

Leonard M. Passano, A.B. . . . . . Instructor in Mathematics
   Johns Hopkins, ’89
   Residence, 5 Cottage Ave., Winchester
CHARLES H. L. N. BERNARD . . . Instructor in Modern Languages
Chaptal College, Paris, '77
Residence, 175 Tremont Street

JOSEPH BLACHSTEIN . . . Instructor in Modern Languages
Realschule erster Ordnung, Hanover, '68; Institution Springer, Paris, '70
Residence, 691 Parker Street, Roxbury

ROBERT P. BIGELOW, Ph.D. . . . Instructor in Biology; Librarian
S.B., Harvard, '87; B. Θ. II.; Ph.D., Johns Hopkins, '92
Residence, 72 Pinckney Street

BENJAMIN E. CARTER, Jr., A.M. . . . Instructor in Mathematics
Harvard, '90
Residence, 136 St. Botolph Street

SAMUEL P. MULLIKEN, Ph.D. . . . Instructor in Organic Chemistry
S.B., M. I. T., '87, V.; Ph.D., Leipzig, '90
Residence, 51 Bromfield Street, Newburyport

GÉRARD W. ROLFE, A.M. . . . Instructor in Sugar Analysis
Residence, 1 Cleveland Street, Cambridge

L. KIMBALL RUSSELL, S.B. . . . Instructor in General Chemistry
M. I. T., '86, V.
Residence, 128 Medford Street, Arlington

ERVIN KENISON, S.B., Instructor in Mechanical Drawing and Descriptive Geometry
M. I. T., '93, II.
Residence, 109 Magoun Avenue, Medford

KILBURN S. SWEET, S.B. . . . Instructor in Civil Engineering
M. I. T., '93, I.
Residence, 33 Coolidge Street, Allston

F. JEWETT MOORE, Ph.D. . . . Instructor in Analytical Chemistry
A.B., Amherst, '89, X. Φ.; Ph.D., Heidelberg, '93
Residence, 220 Marlboro' Street
W. Felton Brown . . . . Instructor in Freehand Drawing
Residence, 35 Glenwood Street, Roxbury

Justus Erhardt . . . . Instructor in Modern Languages
Residence, 5 Irvington Street

Harry W. Gardner, S.B. (Absent) . . . . Instructor in Architecture
M. I. T., '94, IV.
Residence, 90 Corey Street, West Roxbury

George B. Haven, S.B. . . . . Instructor in Mechanical Engineering
M. I. T., '94, II.
Residence, 8 Kirk Street, West Roxbury

Frank P. McKibben, S.B. . . . . Instructor in Civil Engineering
M. I. T., '94, I.
Residence, 42 Newbury Street, Newton Centre

Joseph W. Phelan, S.B. . . . . Instructor in General Chemistry
M. I. T., '94, V.
Residence, 754 Centre Street, Jamaica Plain

Samuel C. Prescott, S.B. . . . . Instructor in Biology
M. I. T., '94, V.
Residence, 234 Broadway, Cambridgeport

Archer T. Robinson, A.B. . . . . Instructor in English
Harvard, '96, Ph. B. K.
Residence, 14 Biltmore Street, Jamaica Plain

Arthur W. Weyss, Ph.D. . . . . Instructor in Biology
Residence, 30 Falmouth Street

Harry C. Bradley . . . . Instructor in Mechanical Drawing and Descriptive Geometry
M. I. T., '91, I.
Residence, 14 Westbourne Street, Roslindale

Carl H. Clorke, S.B. (Absent) . . . . Instructor in Naval Architecture
M. I. T., '95, XIII.
Residence, 66 Clifton Street, Roxbury
TECHNIQUE

CHARLES M. SPOFFORD, S.B. . . . Instructor in Civil Engineering
M. I. T., '93, I.
Residence, 39 Churchill Avenue, Newtonville

RALPH R. LAWRENCE, S.B. . . . Instructor in Physics
M. I. T., '95, VI.
Residence, 34 Summer Street, Dorchester

FRANCIS HAROLD DIKE, A.B. . . . Instructor in French
Columbia, '97
Residence, 68 Pinckney Street

GEORGE L. HOSMER . . . Instructor in Civil Engineering
Residence, 34 Lincoln Street, Malden

ALPHEUS G. WOODMAN, S.B. . . . Instructor in Sanitary Chemistry
Residence, Essex, Mass.

WILLIAM T. HALL, S.B. . . . Instructor in Analytical Chemistry
Residence, 366 Commonwealth Avenue

JOSEPH C. RILEY, S.B. . . . Instructor in Mechanical Engineering
Residence, 13 Spring Park Avenue, Jamaica Plain

WILLIAM D. COOLIDGE, Ph.D. . . . Instructor in Theoretical Chemistry
Residence, 166 West Canton Street, Boston

CHARLES W. BERRY, S.B. . . . Instructor in Mechanical Engineering
Residence, 6 Centre Street, Somerville

WALTER S. LELAND, S.B. . . . Instructor in Naval Architecture
Residence, South Framingham

CHARLES H. WARREN, Ph.D. . . . Instructor in Geology
Residence, 680 Massachusetts Avenue, Boston
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>James W. Smith, S.B.</td>
<td>Assistant in Mechanical Engineering</td>
</tr>
<tr>
<td>Oscar W. Pickering</td>
<td>Assistant in General Chemistry</td>
</tr>
<tr>
<td>Charles B. Breed, S.B.</td>
<td>Assistant in Civil Engineering</td>
</tr>
<tr>
<td>Alice G. Loring</td>
<td>Assistant in Architecture</td>
</tr>
<tr>
<td>Harrison W. Smith, A.B., S.B.</td>
<td>Assistant in Physics</td>
</tr>
<tr>
<td>Maurice De K. Thompson, Jr., S.B.</td>
<td>Assistant in Physics</td>
</tr>
<tr>
<td>Harrison W. Hayward, S.B.</td>
<td>Assistant in Mechanical Engineering</td>
</tr>
<tr>
<td>Henry E. Andrews, A.M.</td>
<td>Assistant in English</td>
</tr>
<tr>
<td>Fred E. Busby, S.B.</td>
<td>Assistant in Industrial Chemistry</td>
</tr>
<tr>
<td>William S. Newell, S.B.</td>
<td>Assistant in Mechanical Engineering</td>
</tr>
<tr>
<td>George H. Riker, S.B.</td>
<td>Assistant in Mechanical Engineering</td>
</tr>
<tr>
<td>Norman E. Seavey, S.B.</td>
<td>Assistant in Physics</td>
</tr>
<tr>
<td>Frank R. Swift, S.B.</td>
<td>Assistant in Mechanical Engineering</td>
</tr>
<tr>
<td>Charles-Edward A. Winslow, S.M.</td>
<td>Assistant in Biology</td>
</tr>
<tr>
<td>R. Wilfred Balcom, S.B.</td>
<td>Assistant in Analytical Chemistry</td>
</tr>
<tr>
<td>Edward E. Bugbee, S.B.</td>
<td>Assistant in Mining Engineering</td>
</tr>
<tr>
<td>John W. Burns, S.B.</td>
<td>Assistant in Chemistry</td>
</tr>
<tr>
<td>Charles M. Fosdick, S.B.</td>
<td>Assistant in Civil Engineering</td>
</tr>
<tr>
<td>Cyrus H. Hagood, S.B.</td>
<td>Assistant in Physics</td>
</tr>
<tr>
<td>Albert S. Merrill, S.B.</td>
<td>Assistant in Mechanical Engineering</td>
</tr>
<tr>
<td>Timothy C. O'Hearn, S.B.</td>
<td>Assistant in Mechanical Engineering</td>
</tr>
<tr>
<td>Howard C. Plummer, S.B.</td>
<td>Assistant in Mining Engineering</td>
</tr>
<tr>
<td>George E. Russell, S.B.</td>
<td>Assistant in Civil Engineering</td>
</tr>
<tr>
<td>Lawrence S. Smith, S.B.</td>
<td>Assistant in Mechanical Engineering</td>
</tr>
<tr>
<td>William L. Stevens, S.B.</td>
<td>Assistant in Mining Engineering</td>
</tr>
<tr>
<td>James H. Walton, S.B.</td>
<td>Assistant in Oil and Gas Analysis</td>
</tr>
<tr>
<td>Arthur B. White, S.B.</td>
<td>Assistant in Civil Engineering</td>
</tr>
</tbody>
</table>
INSTRUCTOR IN GYMNASTICS

WILLIAM SKARSTROM
John Alden, S.B. ........................................ Textile Printing
Truman H. Bartlett .................................... Modelling
Louis Bell, Ph.D. ........................................ The Electrical Transmission of Power
George W. Blodgett, S.B. ......................... The Application of Electricity to Railway Signalling
John Balch Blood, S.B. ............................... The Design of Alternating Current Machinery
Gary N. Calkins, Ph.D. ............................... Protozoa Inhabiting Water Supplies
Henry Carmichael, Ph.D. ........................... Electrolysis of Brine
S. Everett Doane ....................................... Incandescent Lamps
Howard C. Forbes, S.B. ............................... Commercial Electrical Testing
John R. Freeman, S.B., Fireproof Construction and the Hydraulics of Fire Protection
Hollis French, S.B. .................................... Electrical Engineering Practice and Specifications
Charles M. Green ..................................... Electric Arc Lighting
David A. Gregg ....................................... Pen and Ink Drawing
Hammond V. Hayes, Ph.D. ............................ Telephone Engineering
John George Jack ....................................... Horticulture
Charles D. Jenkins, S.B. .............................. Illuminating Gas and Pottery
Simeon C. Keith, Jr., S.B. ......................... Bacteriology of Milk Products
Walter H. Kilham, S.B. ............................... History of Ornament
Ernest A. Le Sueur, S.B. ........................... Industrial Electro-Chemistry
Arthur D. Little ....................................... Paper
James W. Loveland, S.B. ............................ Manufacture of Soaps
Guy Lowell, A.B., S.B. Grad. École des Beaux Arts Landscape Gardening
Samuel W. Mead ....................................... Architectural Design
Frederick H. Newell, S.B. ........................... Hydrography
TECHNIQUE

WALTER E. PIPER, S.B. . . . . . . . . . Rubber
ODIN B. ROBERTS, LL.B. . The Nature and Function of Patents for Inventions
ALBERT SAVOYEUR, S.B. . . . . . . . . . Metallurgy
TIMOTHY W. SPRAGUE, S.B. . . . . . . . Electricity in Mining
JOHN STONE STONE . The Application of Electrical Oscillations in Telephony
R. CLIPSTON STURGIS, A.B. English Architecture in Connection with Landscape Gardening
ELIHU THOMSON . . . . . . Recent Developments in Applied Electricity
ROSS TURNER . . . . . . Water Color
W. LYMAN UNDERWOOD . . . . . . Bacteriology in the Canning Industries
GEORGE C. WHIPPLE, S.B. . The Microscopical Examination of Drinking Water
JASPER WHITING, S.B. . . . . . . . . . Cement Manufacture
S. W. WILDER, JR., S.B. . . . . . . Alumina and Alumina Compounds
JOSEPH WILLARD, LL.B. . . . . . . . . . Business Law
C. J. H. WOODBURY, A.M. . . . . . . . Electricity in its Relation to Fire Risks
HENRY SMITH PRITCHETT

HENRY SMITH PRITCHETT was born in 1857, at Fayette, a town of about two thousand inhabitants, in central Missouri. His father, C. W. Pritchett, was at that time a Professor, and in later years became President, of Central College, a Methodist institution located in Fayette. The family lived on a farm adjoining the town, in accordance with the general custom of the time and place, and the earliest recollections of Dr. Pritchett go back to that farm during the last years of the Civil War. Those years impressed him strongly and yet remain in memory as among the most vivid of his life. Missouri, which in the beginning of the war presented a fairly evenly divided sentiment for and against the Northern side, came, in the end, to have few of its people definitely undecided. During the last years of the struggle, Dr. Pritchett passed through many experiences which do not fall to the lot of the average boy. When the annoyances of the different armies became too great, the family moved from the farm into the town proper, which at that time was under the protection of the Union troops. The sympathies of Dr. Pritchett’s father were unreservedly for the North; however, on account of the college buildings being converted into barracks, he was
forced to relinquish professional life. During the spring of 1865 Dr. Pritchett's boyhood passed very eventfully, and surely it were but a one-sided account which did not make mention of boyhood days as well as those of later life. He himself tells how, when he was eight years old and could be sent out between the lines when it was impossible to send a man, mounted on an old horse, too old to be a temptation to either Union or Confederate soldiers, he made frequent trips from the town to the country. Leaving the pickets of the Union soldiers, he would often meet the outpost of the Rebels within the next half mile. "One of the things which was impressed upon me as a boy was the bitterness of the struggle when friends and even families were divided as they were in Missouri. My mother had two brothers in one army, and two in the other. I saw my father wrung with pain when a younger brother, whom he had educated as a son, left home to join the Confederate Army. One week later my father left home to bring back his body. He had been shot through the heart in his first charge at the battle of Lexington, Missouri. Even such tragedies made less impression on a boy than the bitterness which characterized the last year of hostilities. A number of marauding bands known as 'bush-whackers,' nominally Confederates, infested the state. When captured, they were summarily shot. On one occasion, a squad of Union soldiers caught one of these men who had stopped for something to eat at our house. Without any demonstration they took him out in the front, stood
him up before a tree and shot him.” After the war was ended and the Lost Cause had become history, Dr. Pritchett’s father returned to his farm and reopened the college. A year later, however, in 1866, he removed to Glasgow, Missouri, where he opened a school, which afterwards was incorporated under the name of Pritchett Institute. It was here that Dr. Pritchett commenced his school-life, at the age of ten years. Previous to that time his studies had been directed by his mother. His entire school education was acquired in Glasgow and in the Pritchett Institute. He says, “I began Latin at entrance and took up Greek a year later, and during the whole of my college course spent much time in Latin and Greek, French and German. Mathematics and natural science interested me also, but not more than classical studies. And I have always been grateful for the time spent in Latin and Greek.”

Two events had a deep influence upon Dr. Pritchett’s subsequent life as a student. One was the installation of a library in Glasgow by one of its citizens, — a collection of about three thousand volumes. Dr. Pritchett says, “I became a reader. As I remember it, my appetite was omnivorous. Novels at that date were not looked upon as proper books for a Methodist youth and I usually read these during afternoon visits to the library, bringing for home consumption a volume of that entertaining author, Captain Mayne Reid. I soon found that the historical works of Mr. Prescott were quite as fascinating as anything classed under the head of fiction, and I was gradually led to a considerable amount of historical reading. Motley’s books were read with great relish when I was about twelve years old and they interested me profoundly. I always associated myself quite closely with the hero of the story and could never decide whether I would be a praiseworthy patriot like William the Silent, or a conqueror like Cortez.”
The other event to which allusion has been made and which marks the close of the boyhood period of Dr. Pritchett's life, was the founding of the Morrison Observatory as a department of the Institute, and of which Dr. Pritchett's father was the Director. The observatory, built through the gift of one hundred thousand dollars by Miss Berenice Morrison, was erected in 1875, the larger instruments being placed there two years later. In the same year as the building of the observatory, Dr. Pritchett graduated from Pritchett College at the age of eighteen years, having finished the regular academic college course which included "Latin and Greek, mathematics through differential and integral calculus, French and German and some work in literature and history." He had, in the meantime, become interested in astronomy and had commenced preparations for work in the observatory. His plan was to go to Harvard to study under Professor Winlock, but the sudden death of the latter altered this arrangement and Dr. Pritchett went to Washington to continue his work in astronomy and mathematics with Professor Asaph Hall of the Naval Observatory. Here Dr. Pritchett spent several years and in 1878, through competitive examination, he received the appointment of assistant astronomer in the Naval Observatory. In 1880 Dr. Pritchett resigned this place
to return to Glasgow as astronomer in the Morrison Observatory, working in conjunction with his father. In the following year he accepted an assistant professorship of mathematics and astronomy in Washington University of St. Louis, succeeding Professor John Rees. This chair had been formerly held by William Chauvenet, one of the ablest of American mathematicians. In 1882 Dr. Pritchett obtained a leave of absence to accept a place on the Transit of Venus Commission and went as assistant astronomer to New Zealand, from which point observations were made. Leaving New Zealand early in January, 1883, Dr. Pritchett with Mr. Edwin Smith of the U. S. Coast and Geodetic Survey, and who had been in charge of the Transit of Venus Commission, visited Australia, Java, China and Japan, returning to San Francisco in the summer of the same year. In 1883 Dr. Pritchett returned to his duties as assistant professor at Washington University and a year later he was raised in rank to professor. The following ten years were passed in teaching and astronomical work. In 1889, he was given charge of the Washington University party to take observations of the eclipse of the sun in California and later, in 1892, he was elected President of the Academy of Science of St. Louis, one of the oldest and most active of scientific organizations in the west. During the years of 1894 and 1895, Dr. Pritchett spent fifteen months in Europe in study and travel, much of his time being passed in Munich, Germany, where in May, 1895, he obtained the degree of Doctor of Philosophy. Two years later, he was offered the Superintendency of the United States Coast and Geodetic Survey. His work at this institution is taken up in detail later, together with other important undertakings. Dr. Pritchett was married for a second time in Washington in June, 1900, to Miss Eva McAllister of San Francisco. In 1900 Dr. Pritchett was called to the Presidency of the Massachusetts
Institute of Technology, and in September he assumed the duties of that office.

PART II

Such, broadly sketched, has been the life and work of Dr. Pritchett to the present day. In the foregoing sketch the details have been omitted, but in a life which has been so filled with work and important commissions, it were little short of impossible to include the details of his progress. What has been attempted to give here is the picture of what the man has accomplished and a comprehension of the nervous intensity and incessant energy of his life.

In this article, moreover, space forbids aught but a brief account of the specific work which Dr. Pritchett has done.

His work has been varied and of many interests. Chronologically, we may begin with his work at the Naval Observ-
atory in Washington in which, in 1878, he was appointed assistant astronomer, under Professor John R. Eastman. His work consisted of "transit observations of the positions of the sun, moon and planets and fixed stars and finally the foundation of a star catalogue." The importance of this work is great, inasmuch as it has to do with the fundamental points upon which all other observations are dependent. The position of a star, its right ascension and declination,—having been once determined, the star becomes from that time on a reference point in the sky for all other observations. Dr. Pritchett's work under Professor Eastman was, although of a routine character, a splendid training for further astronomical undertakings. For a period of two years he remained in this work, making many observations, all going to develop the accuracy which is essential in astronomical work.

Two years later Dr. Pritchett returned to Glasgow to work in the Morrison Observatory, having satisfied himself that to remain at the Naval Observatory was not conducive to the liveliest scientific enthusiasm. He had spent much labor in the latter institution and in 1878 he had been one of the observers of the solar eclipse in Colorado; but although the Naval Observatory was one of the best equipped in the world, the circumstances did not offer for him the
best chances for higher astronomical work. At the Morrison Observatory, of which his father was Director, Dr. Pritchett engaged in many observations, his chief work, however, being with the large equatorial of the observatory and in 1880–1881, a most painstaking series of double star measures was completed. It was during this time, also, that many of Dr. Pritchett's important scientific papers were composed. In 1882 with Mr. Edwin Smith as head of the Transit of Venus Commission, Dr. Pritchett, on obtaining a leave of absence, accepted a place as assistant astronomer on the Commission. In September the party left San Francisco and arrived in Auckland in the following month. The Transit took place two months later. The observations made were of great interest to the astronomical world of the time, promising as they did, to afford the most exact method of determining the distance from the sun to the earth. Since then, however, more accurate methods have been formulated. On account of the severe illness of Mr. Smith during the stay at New Zealand, the major part of the work fell to Dr. Pritchett, and though the observations made may be credited as having been in a way successful, the results were rather
disappointing inasmuch as the methods used were found to be subject to uncertainties due to differences of personal equation, to varying effects of light and shade and to other causes which had their effect upon the different observations so that they were not strictly comparable.

After the conclusion of the observations of the Transit of Venus, Dr. Pritchett, in conjunction with Mr. Edwin Smith, conducted pendulum observations in many eastern countries including Australia, Java, China and Japan. The fact that the number of vibrations of a pendulum varies as its position relative to the pole and equator changes, is, of course, well known, and if its vibrations are observed at a number of places, the relative lengths of the earth's radii at these places can be determined. It was this work that Dr. Pritchett was engaged in and it is interesting to note that the pendulums used were the famous Kater pendulums, the property of the Royal Society of England, and which have been used extensively over the known world. The clock, moreover, that accompanied the apparatus, was one which was used by Capt. Cook, when, in 1763, he went to Tahiti to observe the Transit of Venus.

So far, the astronomical side of Dr. Pritchett's work has been alone touched upon. His other work, mainly along educational lines, commenced in 1883; in the year following he was made a full Professor of astronomy at the University and
from that time until 1897, when he was appointed Superin-
tendent of the Geodetic Coast and Survey Department, he
held this office. His astronomical work, as it has been in
the main his most important, has been most enlarged upon.
In his connection with Washington University, independent
of his work as Professor of astronomy, Dr. Pritchett’s time
was largely taken up with the teaching of mathematics in
his earlier years and even in later years he continued his
mathematical work — such as least squares and their applica-
tions to astronomy. The observatory connected with the
Washington University is located in the midst of the city
of St. Louis,—unfortunately located as it is surrounded by
buildings of considerable height, the conditions thus pre-
cluding certain astronomical observations. However, there
were many observations that could be made and of these
the maintenance of an accurate time service “and the dis-
tribution of time signals to various railways” were among its
more important. In the scheme for the adoption of the
present system of standard time, in which Dr. Pritchett saw
great advantages, he was among the first to urge its adop-
tion, beginning immediately to formulate a practical time
service for railway purposes. This service consisted in distrib-
uting accurate time signals over the wires of the various
roads radiating from St. Louis. The signals consisted of
automatic clock beats from a central clock. It was not long
before this service was put into extensive operation, and for
a number of years signals were distributed from the Wash-
ington University Observatory over a great section of the
United States, the eastern limits of which were Cleveland
and Cincinnati and the western boundary Colorado and New
Mexico, the north and south boundaries being the bounding
lines of the United States. This system terminated, as did that
at the Harvard College Observatory, on the introduction of
time signals given by the Western Union Telegraph Com-
pany. These years spent as a Professor at Washington University, Dr. Pritchett regards with much satisfaction. We have here laid stress on the astronomical side of Dr. Pritchett's work because his educational work, though important in itself, was not so much his work as the other. Teaching, however, was pleasant to him and the contact with students which he enjoyed as a teacher impressed upon him that the scientific investigator should, if possible, never cease to teach.

Dr. Pritchett's work in the Coast and Geodetic Survey in which, in 1897, he was offered the office of superintendent, is perhaps his most important. The appointment arose through an investigation made by a committee of engineers appointed by Secretary Gage, to whom the difficulties and controversies which had arisen between the superintendent and his officers were referred. As a result of the
examination, the commission recommended to Secretary Gage the selection of a new superintendent, and Dr. Pritchett was chosen. He entered upon his office on December 1, 1897, at a time when, owing to political feeling and political interference, the Survey had become disorganized. Reorganization was imperative, and the task, difficult to begin with, became all the more difficult, on the withdrawal of naval officers, when the outbreak of the war with Spain came in the following March. To attest to the prompt and effective reorganization of the Survey we have but to look to the results which were obtained, to the rapid and satisfactory surveys of the Behring Sea Coast from Cape Dyer to Port Clarence, the work in Porto Rico and the Hawaiian Islands, the hydrography of the Delta of the Great Yukon, and the response to the numerous calls from the navy and the commercial marine for re-surveys and examinations of home waters of the Atlantic and Pacific Coasts. The field operations of the Transcontinental Triangulation from Cape May, New Jersey, to Point Arena, California, was finished in 1898; the same year the field work on the oblique arc between Calais, Maine, and New Orleans, Louisiana, was completed. The triangulation, which is on lines and with methods suggested by the United States Geodetic Conference of 1894, and is to span the country from the Canadian to the Mexican border, made great advances during Dr. Pritchett's term of office, and the extension into the Dominion of Canada and the Republic of Mexico has gained, by his insistence, a tentative agreement from Canada and a positive pledge from Mexico. One of the important innovations due to Dr. Pritchett was the founding of a special division for the rapid expansion of the Magnetic Work, which furnishes values of great importance for the mariner and surveyor. This was accomplished by increasing the number of field parties employed in the determinations of
the magnetic elements and in establishing a division of magnetic work. At the conclusion of Dr. Pritchett's superintendency the selection of standard magnetic stations near Washington, D.C., Sitka, Alaska, and in Hawaii, was made, where instruments will be placed to determine, from continuous records, the law of change of the magnetic forces.

PART III

BRIEFLY considered, and as free from strictly technical description as possible, the above has been Dr. Pritchett's professional work, and the review now brings us to his installation, in the fall of 1900, as President of the Massachusetts Institute of Technology, succeeding President Crafts. The formal inauguration took place on October 24, 1900, at Symphony Hall, Boston, and as an index of the appreciation of the Institute and its work, by the educational and industrial world, this event merits more than passing notice. It gave, moreover, splendid evidence of the affection of the student-body for its Alma Mater. Addresses were made by Mr. Thomas Henry Livermore on behalf of the Corporation, by ex-President Crafts on behalf of the Faculty, by Senator Henry Cabot Lodge and by President Pritchett. Practically the entire undergraduate body attended, over twelve hundred being present, and the dignified enthusiasm of the afternoon is something to be long remembered.

The very important project of the Walker Memorial Gymnasium has progressed with great rapidity since the commencement of the new administration, and steps have been taken which will enable the Institute to realize what has always been a hope, and in latter years an expectation. A
little over three years ago the scheme of erecting a lasting memorial to General Walker was "put into concrete shape" by the Alumni Association, and the Memorial Gymnasium was launched. In November, 1900, the Alumni Subscription Fund had reached over $33,000. Largely through Dr. Pritchett's efforts, this fund has been brought up to over $55,000. The Corporation of the Institute has made the provision that if the alumni subscribe the fund of $100,000 before July, 1901, a site for the gymnasium will be reserved in the land on Trinity Place, and a director of a department of physical culture will be provided. This is the first step towards the installation of a needed system of rational athletics. Dr. Pritchett's vigorous policy in this matter has been welcomed by graduates and undergraduates alike; the great importance of conserving the health of the student is becoming more and more pressing as the intellectual stress of the student's life grows greater. The subject is so significant that space may be granted here to a synopsis of the scheme in the words of Dr. Pritchett, taken from the Technology Review for January, 1901. . . . "I have, therefore, to recommend that we inaugurate at the earliest possible moment a department of physical culture, organized along the following lines:—

"At the head a man familiar with student life, a trained physician, who shall spend his whole time in the care and the supervision of the department.

"As a centre of the life for this department, we must have at an early date the Walker Memorial Building, which should be not a gymnasium in the narrow sense, but a building for physical culture and direction, in which, under the direction of the head of the department, students may be introduced by the laboratory method to a knowledge of the proper laws of health. A system of physical culture could be begun, which for the first-year students would be com-
pulmonary. The main features of this course would be, in addition to such lectures as the head of the department might give, the following:

"(1) Each man entering the first-year class should have a strict physical examination, and should receive, in accordance therewith, directions from the head of the department as to exercise, diet, and the proper method of preserving health. A careful record of these examinations and of subsequent examinations would of themselves form a most valuable series of observations.

"(2) Under the direction of the head of the department, each student so examined should spend a prescribed time daily in good weather in open-air exercise. That such exercises or sports shall be adapted to the need of the individual, so that, for example, the student who is inclined to be flat-chested, or who is inclined to pulmonary disease, may be directed to one thing, and one who suffers from an excess of fat may be sent to another. An athletic field would be a convenient but not necessary part of this system.

"(3) At times, when the weather does not permit, similar exercise should be taken in a well-lighted and well-ventilated room.

"(4) That competitive sports of such a kind only shall be encouraged as may secure outdoor exercise, and particularly those which enable the individual to compete, such as track athletics, rather than those which depend on expensive and time-consuming team work, and that, in general, athletic exercises shall be conducted in a way not only consistent with, but subordinate to, good scholarship."

While the foregoing are the most important undertakings relating to the student body that Dr. Pritchett has been engaged in, the number of smaller interests has been great. His help and appreciation of the work of the local associations and professional societies among the undergraduates
has been given freely, and improvements and suggestions have been made all along the line. To enter into a description of these would be to lengthen this article to too great an extent, and, having indicated the major undertakings, the others must be left to the future historian.

Such has been Dr. Pritchett's work, and it were but an incomplete sketch that did not in some measure give the personality of the man. If, however, the foregoing does not convey some idea of his virility and individuality, then these pages have indeed been written in vain. What Dr. Pritchett's attitude towards student-life at the Institute is, may be seen in his interest in student undertakings and student welfare. He has been at the Institute too short a time to be able to announce a formal policy. He has, however, gone forward on the line of action that the traditions of Technology are to be upheld, and that the facilities for greater and better work are to be increased as time goes on. The importance of the Engineering Education he has appreciated and added to. But he has sought not to make the training given at the Institute simply technical but he has worked for fullness and breadth, both in education and in character-building. And in this work he expects, and very justly, that the Corporation, the Faculty, the Alumni, and the undergraduates, will respond to the attainment of this ideal. More than this, Dr. Pritchett has expressed unreservedly his desire to enter into close and intimate relations with the student body. A policy more adapted than this to win the regard of those interested in Technology would be difficult to formulate.
SWEET DREAMLAND FACES, PASSING TO AND FRO,
BRING BACK TO MEMORY SCENES OF LONG AGO.
The Senior, stamped and sealed a man,
with new ambition's fires;
His S. B. won, to wealth and fame
successfully
aspires.
CLASS of 1901

OFFICERS

Ellis Fuller Lawrence President

Percy Harry Parrock 1st Vice President

Edward Seaver, Jr. 2nd Vice President

Albert Willis Higgins Secretary

Allen Winter Rowe Treasurer

CLASS DIRECTORS

Clifford Hopkins Shivers George Morton Spear

INSTITUTE COMMITTEE

Paul Gerhard Ludiger Hilkin

Frank Dillman Rash

61
AUGHTY-ONE was first recognized as an organization on the 6th of October, 1897, when we held our first class meeting and incidentally made the acquaintance of such politicians as the long-winded Rowe and the crafty Danforth. Nevertheless we profited by their advice—by not following it—and, in about a month had progressed so far as to adopt a constitution and elect as our first President, R. B. Clark—and by the way, Reub was a good boy, his only fault being that he was an ardent member of the Yacht Club, and would go a cruising of an evening.

In the football game we whitewashed 1900 to the tune of 6–0, and then let them win the cane rush by a narrow margin, just to show that there was no hard feeling.

After weathering what we then thought difficult exams we found ourselves—those of us who could scrape up the necessary price—one evening along the last of March, down at Young’s, where our friend Laws, emaciated by overwork in Course IX., was presiding as toastmaster. What a night that was! We were not all very intimately acquainted, perhaps, on first sitting down, but before the show was over such little acts of kindness as helping Thurlow and Evans from under the table where they had unfortunately slipped in laughing at the stories of the firm of Brush and Boyd,
served to put all in a fairly good state of effervescence and familiarity. Life that winter and spring was not such a con- 
tinuous round of pleasure though by any means, and the fear of being dropped or of becoming specials sowed the first seeds for the future grinds of our class.

In baseball we were justly proud of our team of invincible, and with Wood twirling the ball it was sure death for 
1900, who fell hard. That pleased most of us more than passing Descript. or Analyt. With exams over, died out the anathema of Freshmen, and with what utter disdain did we regard the entering class next fall.

The proverbial hatred of Sophomore for Freshman cul- 
minated, in our case, on the last day of October, in what was the worst rush Tech. has ever seen or is likely to see in the future. A little before noon there was a gradual gathering of the classes in Rogers Corridor, and along each front was noticed a determined expression like a thunder- 
cloud ready to burst on the instant. Suddenly the dogs of war were loosed, and havoc and numerous bleeding noses immediately resulted. Then came a short lull, only to be followed by another rush; but now someone else was also taking part, for, with face deepened in color, and arms waving frantically, we caught a passing glimpse of—horrors — the President himself! We retreated finally, even neglect- ing our wounded in our haste. These were, however, most graciously taken in charge by President Crafts, and the final tableau was one in which he was seen leading Laws and Murray toward his door. All this was mere practice for the cane rush, which we won, of course, but the football game — well, you can look that up in another Technique.

March 9th found the epicures of our class again assem- 
bled together, this time at the Vendome. We were older then, and felt the added weight of our year at the Institute. Nevertheless, as for good stories they were not lacking, and
for speeches, I think everyone voted the honors to Ralph Plumb.

In Track Athletics we had by no means been idle, but it was not until May 5th that we made our first great coup, namely, the winning of the Class Championship. Apparently even this did not quite satisfy us, for the same month we won a victory over 1902 in baseball.

Next came the scramble for the Technique Board, and here is where the wire pulling of Danforth, familiarly known as “The D—n Class Politician,” served him in good stead. He seemed a little chagrined, however, when the Board voted that Scully should be Editor in Chief. Nevertheless, “If the proof of the pudding is in the eating,” then no better judgment could have been displayed.

In September, with somewhat depleted ranks, we were welcomed back (after interviewing the Bursar) as Juniors. Holmes, “The Great Dane from the Frozen North,” we all agreed would make us a fairly good President, and we were not disappointed in him. Our athletes, moreover, did not disappoint us, for on the 21st of October, they won the Fall Handicap Games at Holmes Field.

After the mid year’s were over we had handed down to us as a sort of heirloom, our old friend, Corporal Bailey. There then seemed to be some prospect of the Corporal graduating with us, and it is even said that he has since considered a thesis; but this has been denied as a slander. He says he will swear allegiance to 1902.

On February 14th the first steps were taken for Junior Week by the appointment of the Prom. Committee, and two days later the class picture was taken. The ball of activity was kept rolling by holding our third class dinner on the evening of March 15th, at the Thorndike. Ralph Plumb was toastmaster, and aided, of course, by the speakers of the evening, made the dinner the thorough success that it was.
Of the toasts, no one can forget the spiel Billy Aldrich gave on our class in 1920—how he found Dutchy Koch had taken unto himself a frau, Greta Grey by name, and was running a brewery in the far west, and how the sanctimonious Bickford was found conducting a low down dive in Washington. Laws came in for his share of stories, of course, for one might as well try to hold a cat under water as to suppress him.

"The Medicine Man," produced at the Hollis St. Theatre on April 6th, brought forth more latent talent than was ever dreamed to have existed in our midst. Who ever realized that we had a second Charles Frohman in Laws, or an aspirant for Grand Opera, in Brush; for with what a sweet soprano voice did the latter make love to Brownell, the pretty Indian heroine with the aquiline nose and bow legs! Rowe, however, made the hit in the phantom dance, which he executed with wonderful skill and cleverness—the only fault with his part being that he never once opened his mouth, and only a Tech. man can know what a deprivation that was.

"The Medicine Man" served as a precursor to Junior Week, which opened on the twenty-third, and two days later Technique appeared—the last issue of the nineteenth century. On the same day—great things never occur singly—came the Walker Club Play, in which Johnnie Scully scored a big success in the name part of "The Miser." It is said that even Harry T's heart was affected by Scully's dramatic power, for he was overheard to remark: "Scully makes a much better actor than civil engineer;" and strange to say, Scully did not return for his senior year. There was no time wasted that week, for the next evening the long looked for event of the year had arrived—the Junior Prom. Here again our old friend, V. Frank Holmes, stepped up and made as good a floor manager as he did Class Presi-
dent, which is saying a great deal, for Frank, and everyone who attended, pronounced it the most successful Prom. ever held.

Junior Week and exams have not much in common except that the latter seem to follow the former astonishingly soon, and it was not long before the pleasures of that short time were put away on the shelf, for future reference, while we buried ourselves in such rot as Applied Mechanics, Thermodynamics, et cetera, only to emerge somewhat later to run the last lap of our race.

Seniors! Can it be possible that three years and more have passed since we, as Freshmen, looked forward into the seeming dim future to this estate, as something almost unattainable.

Elections last fall appeared to be in the hands of our friend Marcus—he of the tawny whiskers, and supposed by many to be named after Marcus A. Hanna, of Ohio. Anyway, he was "boss," and everything went through as tamely as an election of church deacons. Some said the lack of competition was because all our rabid politicians had the plum of Chief Marshal in their eye, and rather despised anything as small as the Senior Class Presidency. Whatever the cause, we profited by this aloofness in securing a man like Lawrence for President. He is so well known to all that nothing eulogistic need be said, unless it is a passing comment on his interpretations of parliamentary law. According to Lawrence, after a motion is made and seconded, and then passed, it need not be followed unless desirable. Still, Lawrence does not act in other ways like a disciple of Tammany!

Baxter kept up his reputation at the winter meet which he has so deservedly held for the last three years, and aided Naughty-one materially in doing something slightly out of the ordinary—viz., winning a victory in her senior year.

Our last dinner was held on January 9th, at the Thorn-
dike, with Perk Parrock presiding. There was no end of stories, and the speeches and music were excellent. Newlin made the hit of the evening in “Our Degrees,” and capped the climax by his story of the speedy hen. Do you suppose, Newlin, “thet thet air hen run her level best”? Laws also cracked several of his jokes, and Bailey rang in some old-timers under new names.

The old alarm cry of exams startled us once more to activity and the thought—“only one more milestone and we shall part company with Tech”—spurred us to our best endeavors, for we realized that a flunk now meant more than ever before, and accordingly—to quote Newlin once again—every one of us did his level best. We are at last on the home stretch, and not to be disturbed by anything now that the Marshals are all elected. At present our greatest solicitation is in regard to next June, for

Some one will get those parchment rolls:
Shall you, shall I? Shall you, shall I?
The Junior sees his future life a most delightful vista,
And shares his aspirations with another fellow's sister.
CLASS of 1902

OFFICERS

Louis Shattuck Cates President
Kent Tillinghast Stow 1st Vice President
Paul Hansen 2nd Vice President
Charles Wetmore Kellogg, Jr. Secretary
Clyde Richmond Place Treasurer

CLASS DIRECTORS

Charles Henry Boardman, Jr. Farley Gannett

INSTITUTE COMMITTEE

I. Rayne Adams

John Clyde Fruit
Meinself und der Classe of 1902:

It was in der year previous before der last ones dot I first came into der place dot iss called Tecknollidgerry. I neffer before had seen such a muchness of beoples as venn I walked up der steps of der Rogers Puildings, on die firsten day of school. I vent straight to der office in und ask to see, who you call it, Heinrich der Tyler, der mann mit der big head und muchness of loose chewing mit his face aroundt, but dere vas so much pretty girls in der office dot I become rät mit bashfulness und run out of der office so fast as möglich. I stoped at a table on der vay, und venn I ask for von of der leetle pooks dot dey give away, dey ask me if I go to der church in. I say I don't go to der church in but dot I go to der chapel in, every day. Dies men did not see der joke even venn I tole 'em. All der firsten year dot I vas in der place vas a long dullness mit work. Every place ve vent to puy pooks, says it, "Discount iss for Teck mens alretty," but venn ve says it dot ve Teck mens iss, denn dey raise der ante, und charge extra.

Dere vas some queer destructors mit our classe. Der vorst of all vas a ting called "Lin-es" wich I look up in der
directory und find it means "devil" vich I got not to understand. Dere vas also a mans mit our classe named Chonny Boardman but he vas a gentlemens, und a prave officer mit der army. He vas kind und goot all right, but he had sotch a bigness in der head in! He used to think, venn he got his soldier clothes on, dot he vas die only sausage dere vas in der whole meat cart.

Ve got licked in der kane-rush, but dot vas because der Softermuches had bought der vampire to see dere hands double. Ve beat dem at feet-balls, und so ve vas vat you call ihm "Squarle." Der vas a great Mility Turnments in der spring of dot year und Tecknollidgerry got a fine piece of old shieldt out of it. Hunter, der mans mit der four eyes und free hands, vas going to be in der Tecknollidgerry company, but Von Moltke Hervey fire him out und so vas it a goot ting: ve got der prize. At der end of der year, old Lin-es make a speech mit much tears of der crockerdile, und say how he vas glad dot no vones had try to make in his own vork mit someone elses name on it, und dot he would sooner flunk der ganze classe than eat. Choust aroundt dot time too von mans mit our classe named Bolt-it, or Lock-it, or sometings I don't know vich, got appointed guardian mit der Maggie Sheeny Rooms, weil he sotch a frendt mit der ladies vas, yes.

In der nexten roundt ve had lots of fun und also sleep. Ve had to go into der place vere it vas to listen to a leetle automatic doll, mit ein head like der pilliard palls. He make sotch fussy expiments dot ve all' go to sleep und denn venn ve from our sleep wake up und make applaudings to give him courage, he say how he could not say dot ve chentlemens vas, but ruff fellers dot spoil his goot time mit his playtings. Our classe made ein goot record, for he only give us der bounce vonst.

Der cirkus came yet venn ve vent mit Sharlie Bernard to
der land of Invisible French. Wenn Sharlie speak, he make it mit his hands und feet und forehead. He make us learn to speak Invisible French, but dot vas no quinziquance mit us. He could not make it in English so ve couldt understand, und so he got not der right to kick wenn ve make not der right kind of noise in unser neck. Von morning I forget to wake up until after der English speakings vas beginning, und venn. I make a poundings on der door on, der Professor vat got der speakings to make, have von heart mit face talk mit me, und say he vas insulted been. I did not miss anything yet, for all dot he speak apoudt vas beans (been?) und I can get dose at der Tecknollidgerry lunch room any time venn I vant to wait von whole day for them.

Ve had a grandt skrap mit der Freshmens by der ballgrounds, und ve lick dem mit poth our hands und our feet. Dere vas much actresses und chorus girls in der place vere it vas, und die leetle Freshmens venn dey see so much unloveliness, vas mit der sight so paralyzed dot dey could nothings do venn der time came. Der nexten event vas der time dot Nancy der Hanks Currier stop his speakings in der mittle of der lecture. He make der most awfallest preak dot ve had yet heardt, und den he have to stop und make plushings while ve make much stampings mit der feet. He tell me afterwards dat he read it in der Bolic Gazette, und he like it so much dot he keep it in der head to say it as his own.

* * * * *

In der spring ve got through mit much plue pooks, und denn ve pecame Chuniors. Venn ve came pack after der sommer vas over into der place vere it iss, ve foundt dot
ve vas now die nurses mit der new Freshmens. Dey vere a strong lot, und ve vas proud mit dem, und so ve did not have to make dem much protections from der Softermuches who tink at first dot dey vas der ganze Schmeerkase. Ve ran into some queer destructors in diesen year also. Dere vas der Admiral Doowey, und Bo-Peep, who write der “Thermo-Dam-nonsense,” und worst but not first “Getty.” Der Admiral say dot venn he ask a questoin dere iss not always a solutionizing. “To iss, or not to vas; dot is der anser,” und so ve had to stay mit der fence on und couldt not make it von vay or der odder. Mit der Bo-Peep ve had to puy more pooks as ve couldt carry, und denn venn ve got home to study mit dem ve find dot dey vas all wrong, und dot ve vas vonst more up against der ting dot real vas. Mit der Getty ve had to learn all about “Kitchen Mechanics.” Von day Getty lift up a piece of oldt junk, und denn he ask, “How much of a load have I got on?” I ask him vas it Pilsner or Rheinwein und all der classe make stampings mit der feet so I tink I hear all der pile-drivers in der whole world put mit von anudder, side by each. Getty like der stampings so vell dot he say all der funny tings dot he know, choust to hear der classee make a goot time.

In der samen year ve make der new President mit Tecknollidgerry, a man mit mein own heart after: full von chentleness, und yet so strong liken unser Bismarck. Dies only got to show eximentations of vat he vas. Ve make die brocessions mit die pands und red fire by his house, und make much in der mouth mit yells. Denn der President make ein speakings also und so ve let him have it, und denn ve go down town und raise much teufels mit Chinatowns.

In der nexten vcek after, ve make anudder brocessions mit der foundlings from der asylum in Cambridge, over der riffer. Dey vas a crowd of naughty pad boys, yes, for venn ve vant to go home und get to our leettle peds in, dey get
on der steps of der Walker Puildings, und singen sad songs mit der “Fare to Haarvard.” Ve drown dem out venn ve shout der yell vich says in it dot Teck iss mit—vell neffer mindt (der Christian Sassination says dot it iss too much und ve got not to say it). Denn ve sail into dose Harvard sheisters chouste like Teddy der Strenuousity go for der Spaniards at der pattle of Punkers Hill. Denn der coppers get chealousness venn dey see a goat scrap, und dey tink dey iss it. Dey try to drive us und preak our heads, but der Teck mens stand like der Rock of Oldness, und ve chouste kill dose coppers. Oldt Aunty Knight had der vaking spasms der nexten morgen venn he see all der pusted fences und sign poards. It nearly killed him dead for he had to make a new fence midout sending a pill of damage to anybody.

Dere vas not much excitement until ve make it on der steps of der Animal House for to put our faces in der camera. Denn dere vas two vimmins who try to preak up der picture by une—vell neffer mindt: die Co-eds vere die only peoples in der picture dot look in der machine venn der man say it. All der mens try to look like angels mit dere faces up in die sky.

* * * * * *

Venn der mittle years eximtations come, some of der mens did not make it vell mit der heat exim., pecause dey did not know vat vas a muffle. Now any tam fool knows dot a muffle iss a ting dot vimmins carry mit dere hands aroundt in der coldt vettet to keep them varm. Ve all camen pack after der outings undt nearly drop dead venn ve see
Heinrich der Tyler in der door of der President's office mit his vife’s muffle on der top of his head for a hat.

Now ve all vait for der Chunior Promenation to see who prings der girls in der lunch rooms mit dem, und denn comes der greatest ting in all der pocks of der Century, der 1902 Tecknikation.

Ludvig von Winklestein Hausenblauszer, 1902.
The Sophomore, who moves the 'Stute—
with frequent game and revel—
Breaks wine-glass, heart, and record
too, and gaily plays the devil.
CLASS of 1903

OFFICERS

RICHARD MANNING FIELD President

LAWRENCE HARGREAVE LEE 1st Vice President

HENRY THORNTON WINCHESTER 2d Vice President

JOHN T YRRELL CHENEY Secretary

RICHARD MACK LAWTON Treasurer

CLASS DIRECTORS

FRANK GILBERT BABCOCK

GALEN MOSES HARRIS

INSTITUTE COMMITTEE

PAUL REVERE PARKER

CHARLES JEWELL MCINTOSH

79
HE class of 1903 first came into existence about twenty years ago. Although some of it appeared a little earlier than that, and a part came along a year or two later, the majority managed to appear just about on time. A few of the class entered Technology immediately, so as to be sure to be on hand when the main body of the members should show up, some score of years later. Among those early birds may be mentioned one Corporal Bailey, who while not nominally one of our number, artfully planning a strategem of infinite finesse, by making arrangements to join us in our Junior or Senior year. The larger part of 1903, however, started in on other preparation. Bridges, it is understood, went through the Girls’ Latin School; while Endres—as the popular legend has it—betook himself to Rogers steps, where he played the Rip Van Winkle act until the rest of the class arrived. Most of us took the home cure for a few years, and then put in the intervening period in flunking the entrance exams. This grew monotonous to us and the Tech profs. alike, however, and the year 1899—a century or so ago—saw us segregated into a band of precocious youngsters branded with the generic name of “Freshmen.” Looking at the matter from a vantage point of nineteen
months later, we see that, though we were not "men," yet the rest of the title was emphatically correct.

We then started in on a brilliant series of strategic manœuvres, winning the confidence of our teachers and the upper class-men in a way at once effective and striking. We held a mass meeting in Huntington Hall, when we welcomed President Crafts in a neatly worded speech which he delivered. We attended Harry Tyler's half-hour receptions; but, as we didn't like the way he acted in trying to palm off a lot of logarithmic tables on us under the guise of tabular views, we refrained from shaking hands with him, and thereby made him our friend. We cut the Bursar, he having presumed to enter into correspondence with us before having a formal introduction. He would insist upon swapping autographs however, so we handed him over to our fathers and promised to forget and to try to forgive. We held some more mass meetings — class meetings they now became — and Danforth called our first assembly. Whether it was Danforth '03 or Danforth '01 who figured in this presumption, we never discovered. Later events led us to believe that it was neither, but a 1902 man of the same name, he having assumed it and we having taken him on that assumption. A committee of six worked up a constitution which, in the course of the next half a dozen meetings, we read and accepted in instalments, and finally elected Field, High Mogul of the class. An interesting thing happened at this class election, — we unearthed a new species of noxious bug known as the Class of 1902. We captured several representative specimens, gave one rather forcibly to the President as a souvenir, pitched a few into the Secretary's office for Harry, revolved the rest into H., in the corridor of Rogers, and then retired to the janitors' office to count the votes. Various of our members who had been too busy chastising Sophomores to bother to vote, we
allowed to mark their ballots through the janitors' window. The result was Field. Well, we held more class meetings in Huntington Hall. Chemistry was the chief topic for discussion; Tommy Pope generally called the meetings to order and Bardwell kept them there. Each man deposited his ballot as he went out, and a few were duly elected. It was clearly a case of intimidation at the polls — each individual poll realized that — but nothing was done; — at least, so Bardwell's reports gave us to believe, and he counted the ballots. We drilled. That is to say, we are supposed to have drilled but as a matter of fact we merely gave Lieutenant Hamilton a little exhibition of what there was in us. We are descended from good old Revolutionary stock and we lived up to our reputation. We hanged our tyrant in effigy, as did our forefathers of old, we placed him in durance vile, and we brought him weekly before a court of justice. All was going well until the Faculty, who did not appreciate our struggle for independence, allied themselves with the oppressor and what could we do? We did just what George Washington himself would have done under similar circumstances, namely, back down as gracefully as possible.* One

* Note. — It is rumored that the Faculty, finding the lieutenant too excited to give a coherent account of the trouble, made Arlo Bates a committee of investigation to inquire into the matter and serve up a report upon it at the next Faculty séance. Prof. Bates, with the true poetic instinct, made the affair immortal by reporting in verse, of which we believe the following to be a true though condensed copy:

```
Half a term — half a term
Half a term ended:
Down into Huntington Hall
The lieutenant descended.
"Order," he cried out, "Peace!
Silence! all tumult cease!"
He heard the great roar increase,
And he was offended.
Then flashed his angered eyes,
Freshmen to terrorize,
And o'er their wanton cries

Raised he his arms, and his
Voice he extended.
Then with a fevered "damn!"
Wildly he cried "I am
Going to stop lectures and
Give a full term's exam!"
Those who attended
Foresaw their doom, and their
Grief they expended.
Answered with sobs and tears,
Heard he their moans and fears;
```

Note continued on next page
noble patriot, F. S. Bradley, said he'd be damned if he would drill. He kept his word and was accordingly damned. This year Brad. is taking drill again, for now he says: “Let us have P’s — at any price.”

Another thing that deserves mention in any chronicle is our cane rush. We had a howling victory, to the tune of 8 hands to the Sophomores’ 20; at least so The Tech gave it, but a week or two later, when 1903 had got two or three of its members on The Tech board of editors, the score was corrected to 17 hands for us, instead of 8, and so agreed with the first verdict of the Referee. Where the odd hand came in, no one knew; but 17 it was; and it would have been 19 if Corporal Bailey hadn’t been counted on the other side. We also had a football game, but nothing of interest happened, except that our class colors, chosen shortly after, were fifty per cent. blue.

About this time, President Crafts resigned. An apologetic letter from him to Harry Tyler is said to have contained the following important explanation of his action: “I have waited only to see the Institute unalterably directed to honor and success in all directions. The final consideration in this regard has at last been fulfilled, and the last cause of doubt removed. The character of the class of 1903 promises to the Institute a body of students of immediate and unfailing value. They are distinctly all right. I feel that my work has ended and, pardon my pride, ended well. 1903 has arrived.” Harry, with a skepticism pardonable in the light of his knowledge of previous classes, replied, “Wait and see ’em through the finals.” The President answered, “All right.

Wailings assailed his ears
Of ambitions rended.
With his head tilted high,
Victory in his eye,
Passed he the Freshmen by,
Triumphant — splendid.

Then came the class’s vote: —
Sorrow the leading note —
Thus things were mended.
No more, ’tis plain to see,
Will the lieutenant be
Deeply offended.
Count on me. I'm good until June 4.” And he was. 1903 went through the final exams in a way that not only justified our good President’s resignation, but also completely converted Harry.

At the beginning of our Sophomore year, two visitations occurred, one to have a permanent and great effect upon Technology, the other to be a four-years’ irritation and source of despair. Reference is made, obviously, to the appearance of our honored President, Dr. Pritchett, and to the entrance of the wretched beings who are effectually concealing themselves under the title of “1904.” Both of these elements we, as a class, took well in hand and guided, by might, into the ways of right.

Our new President obediently went through his paces in Symphony Hall, giving us a half-holiday. In return, we,—bossed by Pell and aided to some degree by the other classes,—put up a spectacular performance in the shape of a torch-light spree. Dr. Pritchett made some good remarks to us, but omitted to enter specific thanks to Pell. This broke Pell’s faith in princes, and we had to look for a new impressario in our “annex” torchlight procession given in honor of our other President. Yet in spite of this, we successfully rendered null and void a squad of police and annihilated Harvard upon the steps of Walker.

We called the Freshmen together in their first class meeting, and—under chief missionary Bosworth—elected a chairman and secretary from our number for them. In general we established a brotherly protectorate over them; but the Freshmen proved obdurate as Filipinos, and we therefore thoroughly humiliated them in the Cane Spree, Cane Rush and Football game.

Meanwhile, we had been passing through the throes of class election, with Field again on top, by two votes. Various of the opposition men have since wondered whether they
merely forgot to vote or whether they failed to receive the ballots at all. On this, opinion differs; but President Pritchett's idea of conducting the gory contest through the mails was thoroughly commended; especially so, as our efficient treasurer managed to put the postage bills on Harry T.

Since then, we have figured prominently in connection with such gratifying topics as the Democratic Club, Booker Washington's visit to our class, McIntosh plus the Institute Committee, class pipes and canes, Politician Nields everywhere—yet nowhere—dinners and other dinners, the semi-annual brain distillery, and we now adorn these pages of Technique. Before us we see laurels with examinations appended, degrees floating in the far distance, and in the foreground Technique waiting to become our prey. Meanwhile we plug.
The Freshman, filled with reverence for his Senior upper classmen, foresees the time, three years hence, when he will far surpass them.
CLASS of 1904

OFFICERS

Charles Lowell Homer President
Stuart Walcott 1st Vice President
Albert Wilson Bee, Jr. 2d Vice President
Charles Loring Rodgers Treasurer
Arthur Caldwell Downes Secretary

CLASS DIRECTORS

George Warren Sanborn
George Edwin Atkins

INSTITUTE COMMITTEE

Morton Leslie Emerson
Leonard Preston Burnham
BEING A CONVERSATION OF THE SHADES
OVERHEARD ON THE BANKS
OF THE STYX

(SHADE of Christopher Columbus, evidently just arrived from a Long
Journey, narrator. Shades of Sir Walter Raleigh and Van Bibber, lounge
up to the newcomer arm in arm, leaving a strong odor of the weed behind them).

AN BIBBER—“Well, Chris, old boy, discover anything new in Boston this trip?”

CHRISTOPHER COLUMBUS—“Anything new! Wait until I tell you.” (Turning to
Sir Walter.) “Say, Walter, if you don’t remove that beastly pipe I won’t say a word.
You’ve smoked that same one ever since 1600.” (Sir Walter complies, but takes a consolatory cigarette
from Van Bibber. More Shades join them. All sit down.)

C. C.—“I arrived in Boston all right, and found the M. I. T., but do you know, the only pilot I could hire was
what they call a Freshman. Think of it! I, CHRISTOPHER COLUMBUS! The upper class-men told me the Shades were
only a trail-truck on the car of Progress! They say they make more discoveries there in one day than I did in twenty
years!” (Shade of Amerigo Vespucci titters audibly. C. C. gets red in the face but continues) “I got to Boston the
26th of September, I think it was. My young guide took
me up town to a big building, which he had to ask the name of, and up over a lot of steps, as wide as— as— my ship. The steps were covered with a crowd of youths, most of them fearfully and wonderfully dressed. These, said the Freshman, were Seniors, and Juniors, and Sophs. The last named, he explained, were the hereditary enemies of all Freshmen, and would injure my reputation if I were seen with them. And O, Walter, if you could have been there! The smoke hanging over those steps would have made even you quit.” (Sir Walter smiles a sickly smile. Cigarettes do not agree with him. Queen Bess leads him out of such company.)

“Then the Freshman took me inside while he wrote things on what he called an ‘attendance card.’ I stood there and watched the crowd, but, by Philip, I had rather have been back here. I couldn’t keep up with their talk. Much of it was of ‘Linus’ and ‘Charley’ and ‘Getty’ and ‘Blackie’ but I could not understand it. Just as we were going out to sit on the steps one fellow stepped up to us and said he had some splendid seats for chapel, as he called it, for sale cheap. My friend bought one in E 23, I think it was, for two dollars. He seemed mighty glad to get it then, but when I spoke about it once afterwards he said something about getting his leg pulled, whatever that may mean.” (Here Falstaff, who knows what dry work talking is, steps up with two steins, and both he and Columbus proceed to make Milwaukee more famous.)

C. C. (continuing) — “As I was going to say, about ten days after that the Freshman invited me to come to a class meeting, where all his like were to meet, and I went. Great Galleons! We got inside, and they began business. Then the Sophs, incited, I think, by Mrs. Nation, made an attack on the doors. But those youngsters were just as ready for an argument as you are, Hotspur, and they did what they called ‘sailing into them.’ I looked for a marlin spike, but
forgot that I was not on my own ship. Outside those doors it looked like Thermopylæ. (Leonidas is overcome and revived again.) I thought the carnage would be frightful, but some men of authority appeared and quelled the fray, leaving the Freshmen crowing from the top of the stairs. They’re great fighters! Then they had another class meeting soon afterward (increased interest on the part of the Three Musketeers, Spartacus, and others of the war party) and that time they elected a temporary leader named Emerson.” (Ralph Waldo starts up, then subsides again.)

C. C. (continuing)—“Finally they balloted and elected as president, Homer.” (Homer, the original, wonders if it is one of his grandchildren.) “Well, after that, my young friend didn’t go much of anywhere or do much of anything for some time except to learn on the sly to smoke a pipe, see the girls, buy sporty socks, and get a room at the Tuileries.” (Here several of the Cercle Français become hysterical.) “Then he cut Trig. and flunked a Chem. Exam., and—” (Dr. Johnson interrupts, frowning prodigiously)—

Dr. Johnson—“Sir, will you cease your maltreatment of the King’s English? Your unintelligibility is only outdone by your assurance and ignorance!”

C. C.—“All right, old boy, let me go on. My Freshman began to have too many cuts for his good, as he told me afterward, but he said also that he had a high old time. In time he became more familiar with Juniors and Seniors, and—”

Dr. J. (in an injured tone)—“Youth should have more respect for age.”

C. C. (not heeding him)—“Then all the classes, one night, or rather afternoon, went to a great hall called Symphony and were exhorted by many speakers” (Patrick Henry and William Pitts eye each other) “and a new President of the whole institution was declared,—Dr. Pritchett.
That night all turned out and yelling tramped up and down the streets with torches. They said it was to celebrate." (Nero, from under a bench, speaking rather thickly) "I asked t' have the shelebrashuns myself, hic, onceinawhile."

CHORUS—"Go on, Nero, go on!" (But Nero falls asleep again, and C. C. continues)—

C. C.—"The Freshmen were most anxious to present the Sophs tokens of their highest regards that night, but they were restrained. 'Another time,' said the Juniors. They, you must understand, are friends of the Freshmen."

C. C. (continuing)—"If it wasn't so late, I'd tell you about (sadly)—about another fight that my Freshman had. He and the rest of his class assembled and marched out to a place that was all decorated up with bright, pithy sayings in lurid colors. That was the battle-ground, but I — I — can't tell you anything more about that to-day." (Silence for a few minutes.) "I afterwards followed him down to the drilling place, and, I say, Philip, that Macedonian Phalanx of yours doesn't compare with the Freshman Formation. They could give you the limit for a handicap." (Philip springs to his feet in a rage, but is forcibly subdued by Samson and order is restored.)

C. C. (continuing)—"Then came the end of the first term for the Freshman. He told me, confidentially, that he expected a record of 'C' in his report, that is, very creditable, so I went to him when the next term opened to offer congratulations. But he looked as if he had the grippe and said, 'Don't speak to me. I'm bughouse.' That I could not understand, but finally, he said that his report looked like an A B C book with all but the sixth letter left out. He said that Fate was against him, that the instructors had formed a trust, and that he was going to Lawrence Scientific as soon as possible. Frightened and seemingly disgraced he acknowledged that he was Ir, and began to work.
Didn't he work! I don't believe that he has been to the Theatre more than twice from that time until now."
(Cotton Mather rises with hands outspread in pious indignation.)

Cotton Mather—"Then the ungodly have at last set up play-houses in the town of Boston? I warned them years ago, years ago. . . ."

C. C. (after withering glances at the cause of the interruption)—"As I was saying, nothing more of importance occurred after that first term in connection with that Freshman. I really got tired of following him around, he did so little but study. He went out one night, however, to what he called his class dinner. He assured me that while it was on it was great fun, but that he had such a headache the next morning that he had to cut his first two recitations. Once, too, he took me down to a—a 'hash-house.' I think he called it, where we had lunch and he had fun with the waitresses. I'm getting too old for the latter." (Hunts for more white hair in his beard.)

Father Adam—"You! Old! What do you think of me, then? I'm still in the ring!" (makes goo-goo eyes at Cleopatra.)

C. C. (scorning to heed him)—"Then my Freshman took me to a reception to meet the Faculty. They are all right, and what do you think; everyone of them said he had heard of me before. Queer. They've even got a Columbus Avenue in Boston, too." (Bitterly.) "And yet they named the Western Hemisphere after that Italian devil VESPUCCI!" (Vespucci is not to be found, C. C. continues.) "There isn't much more to be told. But, gentlemen and ladies, I have brought you a copy of The Tech (chorus of Oh's) 'which the Freshman lent me, and I am going back there next June to see how the youngster comes out on his exams. Here's good luck to him!" (Falstaff fishes
in his pockets, finds two numbers in his meal-ticket unpunched, takes C. C. off to dine with him and the party breaks up in some confusion.)
Greek Letter Fraternities

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

ALPHA THETA CHAPTER

Established March 22, 1882

FRATRES

George Desler Atwood
Barr Cushing Averill
John Shofer Burrows
Harry Beaver Canby
Charles Stinchfield Cole
Harle Oren Cummins
Charles Wickersham Elmer
Thomas Wetherbee Foote
Theodore Vietor Fowler, Jr.
Thayer Prescott Gates
Walter Bruce Greeves

Clifford Robson Hammond
Ralph Curtis Jordan
Norman Frederick Kerr
Lucius Blaine McKelvey
Mortimer Livingstone Nagel
Robert Downing Paterson
John Howard Pew
James Sheafe
Harold Walter Sherrill
Charles Sydney Thomas
Edward Cutter Thompson

Leon Rhodes Thurlow

Fratres in Urbe

Herbert Tyler Bardwell
Joseph Boss
John Andrew Curtin
William Worcester Cutler
John Ashley Highlands
Rhodes Greene Lockwood
Charles Eastman Lockwood

Charles Latham Nutter
Farley Osgood
Charles Bodwell Paine
Frank Phinney
Frank Livermore Pierce
Calvin Barton Pratt
Lucius Spalding Tyler

Edward Payson Whitman

98
Delta Psi

CHAPTER ROLL

A. Columbia College
   New York City

Delta. University of Pennsylvania

E. Trinity College
   Hartford, Conn.

A. Williams College
   Williamstown, Mass.

Phi. University of Mississippi
   Oxford, Miss.

Y. University of Virginia
   Charlottesville, Va.

Sigma. Sheffield Scientific School
   New Haven, Conn.

T. Massachusetts Institute of Technology
   Boston, Mass.
Delta Psi

TAU CHAPTER

FRATRES

Edward Pierrepont Beckwith
Louis Gustave Bouscaren
Harcourt Wesson Bull
Findley Burns
Robert Mason Derby
John Lawrence Gilson
Henry Lincoln Green
Bertram Williams Batchelder Greene
Theodore Phinney Henderson
Andrew Hopewell Hepburn

Charles Wetmore Kellogg, Jr.
James Bradford Laws
Charles Jewell McIntosh
Charles Gallope Mixter
William Jason Mixter
Benjamin Nields, Jr.
Andrew Eliot Ritchie

William Whipple
# Chi Phi

## Chapter Roll

<table>
<thead>
<tr>
<th>Chapter</th>
<th>University or College</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>University of Virginia</td>
<td>Charlottesville, Va.</td>
</tr>
<tr>
<td>B</td>
<td>Massachusetts Institute of Technology</td>
<td>Boston, Mass.</td>
</tr>
<tr>
<td>C</td>
<td>Emory College</td>
<td>Oxford, Ga.</td>
</tr>
<tr>
<td>D</td>
<td>Rutgers College</td>
<td>New Brunswick, N. J.</td>
</tr>
<tr>
<td>E</td>
<td>Hampden-Sydney College</td>
<td>Hampden-Sydney, Va.</td>
</tr>
<tr>
<td>F</td>
<td>Franklin and Marshall College</td>
<td>Lancaster, Pa.</td>
</tr>
<tr>
<td>G</td>
<td>University of Georgia</td>
<td>Athens, Ga.</td>
</tr>
<tr>
<td>H</td>
<td>Rensselaer Polytechnic Institute</td>
<td>Troy, N. Y.</td>
</tr>
<tr>
<td>I</td>
<td>Ohio State University</td>
<td>Columbus, Ohio</td>
</tr>
<tr>
<td>J</td>
<td>University of California</td>
<td>Berkeley, Cal.</td>
</tr>
<tr>
<td>K</td>
<td>Stevens Institute of Technology</td>
<td>Hoboken, N. J.</td>
</tr>
<tr>
<td>L</td>
<td>University of Texas</td>
<td>Austin, Texas</td>
</tr>
<tr>
<td>M</td>
<td>Cornell University</td>
<td>Ithaca, N. Y.</td>
</tr>
<tr>
<td>N</td>
<td>Sheffield Scientific School, Yale University</td>
<td>New Haven, Conn.</td>
</tr>
<tr>
<td>O</td>
<td>Lafayette College</td>
<td>Easton, Pa.</td>
</tr>
<tr>
<td>P</td>
<td>Wofford College</td>
<td>Spartanburg, S. C.</td>
</tr>
<tr>
<td>Q</td>
<td>Amherst College</td>
<td>Amherst, Mass.</td>
</tr>
<tr>
<td>R</td>
<td>Lehigh University</td>
<td>South Bethlehem, Pa.</td>
</tr>
</tbody>
</table>
Chi Phi

BETA CHAPTER

FRATRES

Charles Ward Adams
Allen Lansing Appleton
Carl Thompson Blyea
Howard Breed
George Bright, Jr.
Henry Kent Chapin
James Willard Cobb
Walter Lorrain Cook
Francis Woodward Davis
Mortimer Yale Ferris
Russel Henry Glover
Robert Stavely Hamilton
Charles Lowell Homer

Edwin Rowland Humphrey
Harry George Koch
Samuel Alfred McClung
Frederick Ickes Merrick
Silas Clarence Merrick
James Garrison Metcalfe
Frederic Nickerson
Henry Augustus Pemberton
George Hardy Powell
Philip Reeder Smith
Edwin Whitman Sturtevant
Thomas Wakefield
Milford Wertheimer
# Delta Kappa Epsilon

## CHAPTER ROLL

<table>
<thead>
<tr>
<th>Chapter</th>
<th>University/College</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phi</td>
<td>Yale University</td>
<td>1844</td>
</tr>
<tr>
<td>Theta</td>
<td>Bowdoin College</td>
<td>1844</td>
</tr>
<tr>
<td>Xi</td>
<td>Colby University</td>
<td>1845</td>
</tr>
<tr>
<td>Sigma</td>
<td>Amherst College</td>
<td>1846</td>
</tr>
<tr>
<td>Gamma</td>
<td>Vanderbilt University</td>
<td>1847</td>
</tr>
<tr>
<td>Psi</td>
<td>University of Alabama</td>
<td>1847</td>
</tr>
<tr>
<td>Upsilon</td>
<td>Brown University</td>
<td>1850</td>
</tr>
<tr>
<td>Chi</td>
<td>University of Mississippi</td>
<td>1850</td>
</tr>
<tr>
<td>Beta</td>
<td>University of North Carolina</td>
<td>1851</td>
</tr>
<tr>
<td>Eta</td>
<td>University of Virginia</td>
<td>1852</td>
</tr>
<tr>
<td>Kappa</td>
<td>Miami University</td>
<td>1852</td>
</tr>
<tr>
<td>Lambda</td>
<td>Kenyon College</td>
<td>1852</td>
</tr>
<tr>
<td>Pi</td>
<td>Dartmouth College</td>
<td>1853</td>
</tr>
<tr>
<td>Iota</td>
<td>Central University of Kentucky</td>
<td>1854</td>
</tr>
<tr>
<td>Alpha Alpha</td>
<td>Middlebury College</td>
<td>1854</td>
</tr>
<tr>
<td>Omicron</td>
<td>University of Michigan</td>
<td>1855</td>
</tr>
<tr>
<td>Epsilon</td>
<td>Williams College</td>
<td>1855</td>
</tr>
<tr>
<td>Rho</td>
<td>Lafayette College</td>
<td>1855</td>
</tr>
<tr>
<td>Tau</td>
<td>Hamilton College</td>
<td>1856</td>
</tr>
<tr>
<td>Mu</td>
<td>Colgate University</td>
<td>1856</td>
</tr>
<tr>
<td>Nu</td>
<td>College of the City of New York</td>
<td>1856</td>
</tr>
<tr>
<td>Beta Phi</td>
<td>University of Rochester</td>
<td>1856</td>
</tr>
<tr>
<td>Phi Chi</td>
<td>Rutgers College</td>
<td>1861</td>
</tr>
<tr>
<td>Psi Phi</td>
<td>De Pauw University</td>
<td>1866</td>
</tr>
<tr>
<td>Gamma Phi</td>
<td>Wesleyan University</td>
<td>1867</td>
</tr>
<tr>
<td>Psi Omega</td>
<td>Rensselaer Polytechnic</td>
<td>1867</td>
</tr>
<tr>
<td>Beta Chi</td>
<td>Adelbert College</td>
<td>1868</td>
</tr>
<tr>
<td>Delta Chi</td>
<td>Cornell University</td>
<td>1870</td>
</tr>
<tr>
<td>Delta Delta</td>
<td>Chicago University</td>
<td>1870</td>
</tr>
<tr>
<td>Phi Gamma</td>
<td>Syracuse University</td>
<td>1871</td>
</tr>
<tr>
<td>Gamma Beta</td>
<td>Columbia College</td>
<td>1874</td>
</tr>
<tr>
<td>Theta Zeta</td>
<td>University of California</td>
<td>1876</td>
</tr>
<tr>
<td>Alpha Chi</td>
<td>Trinity College</td>
<td>1879</td>
</tr>
<tr>
<td>Phi Epsilon</td>
<td>University of Minnesota</td>
<td>1889</td>
</tr>
<tr>
<td>Sigma Tau</td>
<td>Massachusetts Institute of Technology</td>
<td>1890</td>
</tr>
<tr>
<td>Tau Lambda</td>
<td>Tulane University</td>
<td>1898</td>
</tr>
<tr>
<td>Alpha Phi</td>
<td>University of Toronto</td>
<td>1898</td>
</tr>
<tr>
<td>Delta Kappa</td>
<td>University of Pennsylvania</td>
<td>1899</td>
</tr>
</tbody>
</table>
Delta Kappa Epsilon

SIGMA TAU CHAPTER
Established 1890

FRATRES IN FACULTATE
ALFRED EDGAR BURTON
GEORGE VINCENT WENDELL

FRATRES
Francis Kernan Baxter
Matthew Chauncey Brush
John Ford Card
Charles Joseph Emerson
Henry Callender Field
Frederic William Freeman
John Clyde Frutt
Harry Lamar Grant
Galen Moses Harris
Robert Rishworth Jordan
Albert Eaton Lombard

Robert Penniman Marsh
Herbert Schaw May
Andrew Otterson Miller
Blaine Heston Miller
Arthur Smith More
Henry Hodgman Saylor
Waldron Page Schumacher
Charles Alfred Smith
Preston Morris Smith
Clarence Benton Williams
Austin Clarence Wood

George Babcock Wood

Fratres in Urbe

William Stuart Forbes
Isaac Brewster Hazleton
Henry Ford Hoit
Walter Humphreys

Allen Winchester Jackson
Henry Orlando Marcy, Jr.
Leonard Metcalf
Benjamin Franklin Winslow Russell
Maurice Dekay Thompson
Σοφία τέχνη
Phi Beta Epsilon

Local at Technology
Phi Beta Epsilon

Founded in 1890

FRATRES

Louis Winfield Adams  
Paul Ernest Chalifoux  
John Tyrrell Cheney  
Edgar Bailey Cooper  
Fulton Crary  
Frederick Cushing Cross  
John Lee Curtiss  
Lammot du Pont  
Walter Havens Farmer  
Richard Manning Field

Ralph Stowell Franklin  
Richard Lincoln Frost  
Ernest Harrah  
Richard Mack Lawton  
Frank Kollock Mitchell  
Ray Murray  
Albert Manton Read  
Walter Frederick Roper  
Charles Adrian Sawyer, Jr.  
John Bice Turner

Henry Thornton Winchester

Frater in Urbe

George R. Anthony  
Stephen Bowen  
Richard Baker Derby  
Henry Fiske  
Sumner H. Foster  
DuRelle Gage  
David E. Gray  
George W. Hayden

Harry G. Johnson  
George W. F. Reed  
Ralph E. Sawyer  
George W. Sherman  
Walter M. Stearns  
William Thalheimer  
J. Gifford Thompson  
Charles A. Watrous

William E. West

106
# Delta Upsilon

Founded at Williams College, 1834

## Chapter Roll

<table>
<thead>
<tr>
<th>Year</th>
<th>Chapter</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>1834</td>
<td>Williams</td>
<td>Williamstown, Mass.</td>
</tr>
<tr>
<td>1838</td>
<td>Union</td>
<td>Schenectady, N. Y.</td>
</tr>
<tr>
<td>1847</td>
<td>Hamilton</td>
<td>Clinton, N. Y.</td>
</tr>
<tr>
<td>1847</td>
<td>Amherst</td>
<td>Amherst, Mass.</td>
</tr>
<tr>
<td>1847</td>
<td>Adelbert</td>
<td>Cleveland, Ohio</td>
</tr>
<tr>
<td>1852</td>
<td>Colby</td>
<td>Waterville, Me.</td>
</tr>
<tr>
<td>1852</td>
<td>Rochester</td>
<td>Rochester, N. Y.</td>
</tr>
<tr>
<td>1856</td>
<td>Middlebury</td>
<td>Middlebury, Vt.</td>
</tr>
<tr>
<td>1857</td>
<td>Bowdoin</td>
<td>Brunswick, Me.</td>
</tr>
<tr>
<td>1858</td>
<td>Rutgers</td>
<td>New Brunswick, N. J.</td>
</tr>
<tr>
<td>1860</td>
<td>Brown</td>
<td>Providence, R. I.</td>
</tr>
<tr>
<td>1865</td>
<td>Colgate</td>
<td>Hamilton, N. Y.</td>
</tr>
<tr>
<td>1865</td>
<td>New York</td>
<td>New York City</td>
</tr>
<tr>
<td>1869</td>
<td>Cornell</td>
<td>Ithaca, N. Y.</td>
</tr>
<tr>
<td>1870</td>
<td>Marietta</td>
<td>Marietta, Ohio</td>
</tr>
<tr>
<td>1873</td>
<td>Syracuse</td>
<td>Syracuse, N. Y.</td>
</tr>
<tr>
<td>1876</td>
<td>Michigan</td>
<td>Ann Arbor, Mich.</td>
</tr>
<tr>
<td>1880</td>
<td>Northwestern</td>
<td>Evanston, Ill.</td>
</tr>
<tr>
<td>1885</td>
<td>Wisconsin</td>
<td>Madison, Wis.</td>
</tr>
<tr>
<td>1885</td>
<td>Lafayette</td>
<td>Easton, Pa.</td>
</tr>
<tr>
<td>1885</td>
<td>Columbia</td>
<td>New York City</td>
</tr>
<tr>
<td>1885</td>
<td>Lehigh</td>
<td>South Bethlehem, Pa.</td>
</tr>
<tr>
<td>1886</td>
<td>Tufts</td>
<td>West Somerville, Mass.</td>
</tr>
<tr>
<td>1887</td>
<td>De Pauw</td>
<td>Greencastle, Ind.</td>
</tr>
<tr>
<td>1890</td>
<td>Minnesota</td>
<td>Minneapolis, Minn.</td>
</tr>
<tr>
<td>1891</td>
<td>Technology</td>
<td>Boston, Mass.</td>
</tr>
<tr>
<td>1894</td>
<td>Swarthmore</td>
<td>Swarthmore, Pa.</td>
</tr>
<tr>
<td>1895</td>
<td>California</td>
<td>Berkeley, Cal.</td>
</tr>
<tr>
<td>1895</td>
<td>Leland Stanford, Jr.</td>
<td>Palo Alto, Cal.</td>
</tr>
<tr>
<td>1898</td>
<td>Nebraska</td>
<td>Lincoln, Neb.</td>
</tr>
<tr>
<td>1898</td>
<td>McGill</td>
<td>Montreal, Canada</td>
</tr>
<tr>
<td>1899</td>
<td>Toronto</td>
<td>Toronto, Canada</td>
</tr>
</tbody>
</table>
Delta Upsilon

TECHNOLOGY CHAPTER
Established 1891

FRATRES IN FACULTATE

Frank Vogel

Louis Derr

FRATRES

WARREN IRA BICKFORD
FRANKLIN SAWYER BRADLEY
CLAUDIUS HOWARD COOPER
VALDEMAR FRANK HOLMES
GEORGE TAYLOR HYDE
GEORGE WASHINGTON LANDRUS
HERBERT MILTON McMasters
HERBERT MERRYWEATHER
PHILIP WYATT MOORE
PERCY HARRY PARROCK
OLIVER HAZARD PERRY, JR.

REDFIELD PROCTOR, JR.
LOUIS BALLAUF RAPP
CHARLES LORING RODGERS
GARDNER ROGERS
FRANKLIN TINKER ROOT
GEORGE TILLEY SEABURY
STANLEY COLLAMORE SEARS
GEORGE BEACH SEYMUS
CHARLES HAMILTON Sisson
EVERETT PENDLETON TURNER
HOWARD CHUBBUCK TURNER

Fratres in Urbe

JOSUHA ATWOOD, 3D
MAURICE LE BASQUE
GEORGE PHILLIPS DIKE
CHARLES DUNN
CHARLES WARREN HAPGOOD
CYRUS HOWARD HAPGOOD
ALBERT LINCOLN KENDALL
ARTHUR SAMUEL KEENE

WILLIS TAYLOR KNOWLTON
JOHN WINSLOW HRR
WALTER ELBRIDGE PIPER
THOMAS GLEASON RICHARDS
MILES STANDISH RICHMOND
FRANK CUMMINS SHEPHERD
CLIFFORD MELVILLE SWAN
ALFRED BALL TENNEY

ALFRED EDWARD ZAPF
<table>
<thead>
<tr>
<th>Chapter</th>
<th>University</th>
<th>City</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maine Alpha</td>
<td>University of Maine</td>
<td>Orono, Maine</td>
<td>Maine</td>
</tr>
<tr>
<td>Mass. Gamma</td>
<td>Harvard University</td>
<td>Ithaca, N. Y.</td>
<td>N. Y.</td>
</tr>
<tr>
<td>N. Y. Alpha</td>
<td>Cornell University</td>
<td>Annandale, N. Y.</td>
<td>N. Y.</td>
</tr>
<tr>
<td>Va. Sigma</td>
<td>Washington and Lee University</td>
<td>Chapel Hill, N. C.</td>
<td>N. C.</td>
</tr>
<tr>
<td>Ga. Psi</td>
<td>Mercer University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ga. Epsilon</td>
<td>Emory College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ga. Phi.</td>
<td>Georgia School of Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ohio Sigma</td>
<td>Mt. Union College</td>
<td>Alliance, Ohio</td>
<td>Ohio</td>
</tr>
<tr>
<td>Ohio Delta</td>
<td>Ohio Wesleyan University</td>
<td>Delaware, Ohio</td>
<td>Ohio</td>
</tr>
<tr>
<td>Ohio Epsilon</td>
<td>University of Cincinnati</td>
<td>Cincinnati, Ohio</td>
<td>Ohio</td>
</tr>
<tr>
<td>Ohio Theta</td>
<td>Ohio State University</td>
<td>Columbus, Ohio</td>
<td>Ohio</td>
</tr>
<tr>
<td>Ind. Alpha</td>
<td>Franklin College</td>
<td>Lafayette, Ind.</td>
<td>Ind.</td>
</tr>
<tr>
<td>Ind. Beta</td>
<td>Purdue University</td>
<td>Evansston, Ill.</td>
<td>Ill.</td>
</tr>
<tr>
<td>Ill. Psi Omega</td>
<td>Northwestern University</td>
<td>Champaign, Ill.</td>
<td>Ill.</td>
</tr>
<tr>
<td>Ill. Beta</td>
<td>University of Illinois</td>
<td>Richmond, Ky.</td>
<td>Ky.</td>
</tr>
<tr>
<td>Ky. Iota</td>
<td>Bethel College</td>
<td>Lexington, Ky.</td>
<td>Ky.</td>
</tr>
<tr>
<td>Ky. Epsilon</td>
<td>Kentucky State College</td>
<td>Clarksville, Tenn.</td>
<td>Tenn.</td>
</tr>
<tr>
<td>Tenn. Zeta</td>
<td>Southwestern Presbyterian University</td>
<td>Lebanon, Tenn.</td>
<td>Tenn.</td>
</tr>
<tr>
<td>Tenn. Lambda</td>
<td>Cumberland University</td>
<td>Nashville, Tenn.</td>
<td>Tenn.</td>
</tr>
<tr>
<td>Tenn. Nu</td>
<td>Vanderbilt University</td>
<td>Knoxville, Tenn.</td>
<td>Tenn.</td>
</tr>
<tr>
<td>Tenn. Kappa</td>
<td>University of Tennessee</td>
<td>Sawannee, Tenn.</td>
<td>Tenn.</td>
</tr>
<tr>
<td>Tenn. Omega</td>
<td>University of the South</td>
<td>Jackson, Tenn.</td>
<td>Tenn.</td>
</tr>
<tr>
<td>Tenn. Eta</td>
<td>Southwestern Baptist University</td>
<td>Tuscaloosa, Ala.</td>
<td>Ala.</td>
</tr>
<tr>
<td>Ala. Iota</td>
<td>Southern University</td>
<td>Auburn, Ala.</td>
<td>Ala.</td>
</tr>
<tr>
<td>Ala. Alpha Mu</td>
<td>Alabama Polytechnic Institute</td>
<td>Oxford, Miss.</td>
<td>Miss.</td>
</tr>
<tr>
<td>Miss. Gamma</td>
<td>University of Mississippi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chapter</td>
<td>University</td>
<td>Location</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------</td>
<td>------------------------</td>
<td></td>
</tr>
<tr>
<td>Mo. Alpha</td>
<td>University of Missouri</td>
<td>Columbia, Mo.</td>
<td></td>
</tr>
<tr>
<td>Mo. Beta</td>
<td>Washington University</td>
<td>St. Louis, Mo.</td>
<td></td>
</tr>
<tr>
<td>Neb. Lambda Pi</td>
<td>University of Nebraska</td>
<td>Lincoln, Neb.</td>
<td></td>
</tr>
<tr>
<td>Ark. Alpha Upsilon</td>
<td>University of Arkansas</td>
<td>Fayetteville, Ark.</td>
<td></td>
</tr>
<tr>
<td>Tex. Rho</td>
<td>University of Texas</td>
<td>Austin, Tex.</td>
<td></td>
</tr>
<tr>
<td>Col. Chi</td>
<td>University of Colorado</td>
<td>Boulder, Col.</td>
<td></td>
</tr>
<tr>
<td>Col. Zeta</td>
<td>Denver University</td>
<td>Denver, Col.</td>
<td></td>
</tr>
<tr>
<td>Cal. Alpha</td>
<td>Leland Stanford, Jr., University</td>
<td>Palo Alto, Cal.</td>
<td></td>
</tr>
<tr>
<td>Cal. Beta</td>
<td>University of California</td>
<td>Berkeley, Cal.</td>
<td></td>
</tr>
<tr>
<td>La. Tau Upsilon</td>
<td>Tulane University</td>
<td>New Orleans, La.</td>
<td></td>
</tr>
<tr>
<td>La. Epsilon</td>
<td>Louisiana State University</td>
<td>Baton Rouge, La.</td>
<td></td>
</tr>
</tbody>
</table>

---

**Sigma Alpha Epsilon**

**MASSACHUSETTS IOTA TAU CHAPTER**

**Fratres**

<table>
<thead>
<tr>
<th>Harry Vass Allen (N. C. θ)</th>
<th>Alexander Healy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Chase Allen (Mass. Δ)</td>
<td>Alonzo Keyt Isham</td>
</tr>
<tr>
<td>Roland Hunnewell Ballou</td>
<td>Lemuel Cushing Kimball (Mass Π)</td>
</tr>
<tr>
<td>Donald Minor Belcher</td>
<td>King Harding Knox (Va. O)</td>
</tr>
<tr>
<td>Herman Otto Blatt</td>
<td>Frank George Lane</td>
</tr>
<tr>
<td>Harold Otis Bosworth</td>
<td>Thomas Grey McDougal</td>
</tr>
<tr>
<td>Robert Vaughan Brown</td>
<td>Leslie Walker Millar</td>
</tr>
<tr>
<td>Edwin Parks Burdick</td>
<td>Lester Freeman Miller</td>
</tr>
<tr>
<td>William Winslow Burnham</td>
<td>Robert James Montgomery</td>
</tr>
<tr>
<td>Mayes Cooper</td>
<td>Harry Bradford Pond</td>
</tr>
<tr>
<td>Frank Gardner Cox</td>
<td>Edward Farnum Rockwood</td>
</tr>
<tr>
<td>Louis Austin Crowell</td>
<td>Kent Tillinghast Stow</td>
</tr>
<tr>
<td>Edward Henry Cutter</td>
<td>Edward Gordon Thatcher</td>
</tr>
<tr>
<td>Newman Loring Danforth</td>
<td>William Wright Walcott</td>
</tr>
<tr>
<td>Harold Hayward Dillon</td>
<td>George Davis Wilson (Tenn Ξ)</td>
</tr>
<tr>
<td>Everett Owen Eastwood (Va. O)</td>
<td>Lewis Gamaliel Wilson (Tenn Ξ)</td>
</tr>
</tbody>
</table>

**Fratres in Urbe**

| Albert Richard Beddall    | William Thomas Hall         |
| Wallace Clark Brackett    | Herman Hromel               |
| Cardella Drake Brown      | Harrington Mack             |
| Harold Chase Buckminster  | Frank Bird Masters          |
| Frederick Hosmer Cooke    | Carl Leon Morgan            |
| Luzerne Simeon Cowles     | Walter Robert Pemister      |
| Charles Spencer Crane     | Myron Everett Pierce        |
| William Wyman Crosby      | John DeLoss Underwood       |
| Herbert Nathan Dawes      | Clarence Howard Walker      |
| John Wallis Fleet         | Robert Sidney Wason         |
| Charles Mussey Fosdick    | Winslow Abbott Wilson       |

**Howard Parker Wise**

110
# Phi Gamma Delta

**Established in 1848**

## CHAPTER ROLL

<table>
<thead>
<tr>
<th>Chapter</th>
<th>University</th>
<th>City, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lambda</td>
<td>De Pauw University</td>
<td>Greencastle, Ind.</td>
</tr>
<tr>
<td>Nu</td>
<td>Bethel College</td>
<td>Russellville, Ky.</td>
</tr>
<tr>
<td>Beta Deuteron</td>
<td>Roanoke College</td>
<td>Salem, Va.</td>
</tr>
<tr>
<td>Omicron</td>
<td>University of Virginia</td>
<td>Charlottesville, Va.</td>
</tr>
<tr>
<td>Xi</td>
<td>Pennsylvania College</td>
<td>Gettysburg, Pa.</td>
</tr>
<tr>
<td>Pi</td>
<td>Allegheny College</td>
<td>Meadville, Pa.</td>
</tr>
<tr>
<td>Tau</td>
<td>Hanover College</td>
<td>Hanover, Ind.</td>
</tr>
<tr>
<td>Epsilon</td>
<td>City College of New York</td>
<td>New York, N. Y.</td>
</tr>
<tr>
<td>Psi</td>
<td>Wabash College</td>
<td>Crawfordsville, Ind.</td>
</tr>
<tr>
<td>Omega</td>
<td>Columbia University</td>
<td>New York, N. Y.</td>
</tr>
<tr>
<td>Alpha Deuteron</td>
<td>Illinois Wesleyan University</td>
<td>Bloomington, Ill.</td>
</tr>
<tr>
<td>Gamma Deuteron</td>
<td>Knox College</td>
<td>Galesburg, Ill.</td>
</tr>
<tr>
<td>Theta Deuteron</td>
<td>Ohio-Wesleyan University</td>
<td>Delaware, Ohio</td>
</tr>
<tr>
<td>Zeta</td>
<td>Indiana State University</td>
<td>Bloomington, Ind.</td>
</tr>
<tr>
<td>Delta Deuteron</td>
<td>Hampden-Sidney College</td>
<td>Hampden-Sidney, Ind.</td>
</tr>
<tr>
<td>Nu Deuteron</td>
<td>Yale University</td>
<td>New Haven, Conn.</td>
</tr>
<tr>
<td>Omicron Deuteron</td>
<td>Ohio State University</td>
<td>Columbus, Ohio</td>
</tr>
<tr>
<td>Pi Deuteron</td>
<td>University of Kansas</td>
<td>Lawrence, Kan.</td>
</tr>
<tr>
<td>Delta</td>
<td>Bucknell College</td>
<td>Lewisburg, Pa.</td>
</tr>
<tr>
<td>Lambda Deuteron</td>
<td>Denison University</td>
<td>Granville, Ohio</td>
</tr>
<tr>
<td>Rho Deuteron</td>
<td>Wooster University</td>
<td>Wooster, Ohio</td>
</tr>
<tr>
<td>Sigma Deuteron</td>
<td>Lafayette College</td>
<td>Easton, Pa.</td>
</tr>
<tr>
<td>Sigma</td>
<td>Wittenberg College</td>
<td>Springfield, Ohio</td>
</tr>
<tr>
<td>Zeta Phi</td>
<td>William Jewell</td>
<td>Liberty, Mo.</td>
</tr>
<tr>
<td>Delta Xi</td>
<td>University of California</td>
<td>Berkeley, Cal.</td>
</tr>
<tr>
<td>Theta Psi</td>
<td>Colgate University</td>
<td>Hamilton, N. Y.</td>
</tr>
<tr>
<td>Delta Chi</td>
<td>Lehigh University</td>
<td>Bethlehem, Pa.</td>
</tr>
<tr>
<td>Gamma Phi</td>
<td>Pennsylvania State College</td>
<td>State College, Pa.</td>
</tr>
<tr>
<td>Iota Mu</td>
<td>Massachusetts Institute of Technology</td>
<td>Boston, Mass.</td>
</tr>
<tr>
<td>Kappa Nu</td>
<td>Cornell University</td>
<td>Ithaca, N. Y.</td>
</tr>
<tr>
<td>Mu Sigma</td>
<td>University of Minnesota</td>
<td>Minneapolis, Minn.</td>
</tr>
<tr>
<td>Rho Chi</td>
<td>Richmond College</td>
<td>Richmond, Va.</td>
</tr>
<tr>
<td>Beta Mu</td>
<td>Johns Hopkins</td>
<td>Baltimore, Md.</td>
</tr>
<tr>
<td>Kappa Tau</td>
<td>University of Tennessee</td>
<td>Knoxville, Tenn.</td>
</tr>
<tr>
<td>Nu Epsilon</td>
<td>New York University</td>
<td>Univ. Heights, N. Y.</td>
</tr>
<tr>
<td>Alpha Chi</td>
<td>Amherst College</td>
<td>Amherst, Mass.</td>
</tr>
<tr>
<td>Tau Alpha</td>
<td>Trinity College</td>
<td>Hartford, Conn.</td>
</tr>
<tr>
<td>Chi</td>
<td>Union College</td>
<td>Schenectady, N. Y.</td>
</tr>
<tr>
<td>Mu</td>
<td>University of Wisconsin</td>
<td>Madison, Wis.</td>
</tr>
<tr>
<td>Phi Iota</td>
<td>University of Illinois</td>
<td>Champaign, Ill.</td>
</tr>
<tr>
<td>Lambda Nu</td>
<td>University of Nebraska</td>
<td>Lincoln, Neb.</td>
</tr>
<tr>
<td>Chi Mu</td>
<td>University of Missouri</td>
<td>Columbia, Mo.</td>
</tr>
<tr>
<td>Omega Mu</td>
<td>University of Maine</td>
<td>Orono, Me.</td>
</tr>
<tr>
<td>Sigma Tau</td>
<td>University of Washington</td>
<td>Seattle, Wash.</td>
</tr>
</tbody>
</table>
Phi Gamma Delta

IOTA MU CHAPTER
Established in 1889

FRATRES

Alfred Warren Allyn
Edward Sherman Baker
Burton Steadman Clark
Arthur Luke Collier
Willard Wellman Dow
Frederick Clark Durant, Jr.
Alfred William Friend

Edmund Anthony Garrett

Elliot Walker Knight
Alfred Ernest Lang
Albert Joseph Lindsly
Benjamin Edward McKechnie
Paul McClary Paine
Anthony Winfred Peters, Jr.
Elzear Joseph Proulx
Arthur Harold Sawyer

Robert Fletcher Whitney

Fratres in Urbe

Sewall Cabot
Wilbur Forbes Evans
William Gardner Pigeon
Joseph Porter Palmer
Lewis Morse Lawrence
Leonard Wesson
**Theta Xi**

**CHAPTER ROLL**

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Institution</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Rensselaer Polytechnic Institute</td>
<td>Troy, N. Y.</td>
</tr>
<tr>
<td>B</td>
<td>Sheffield Scientific School</td>
<td>New Haven, Ct.</td>
</tr>
<tr>
<td>Γ</td>
<td>Stevens Institute of Technology</td>
<td>Hoboken, N. J.</td>
</tr>
<tr>
<td>Δ</td>
<td>Massachusetts Institute of Technology</td>
<td>Boston, Mass.</td>
</tr>
<tr>
<td>E</td>
<td>Columbia University</td>
<td>New York City</td>
</tr>
</tbody>
</table>
Theta Xi

DELTA CHAPTER
Established 1885

FRATRES

William Cornel Appleton
Paul Hansen
Francis Willard Puckey
Clifford Hopkins Shivers
George Morton Spear

Fratre in Urbe

Timothy Wilson Sprague
Arthur Humphrys Alley
Alfred Lindsay Barrett
Albert Farwell Bemis
Alfred Millard Blinn
Edward Lyman Brown
Harry Ellsworth Clifford
Morton Eddy Cobb
Henry John Conant
Fred Marshall Crosby
Nathan Brown Day
Franklin Whitney Doliber

Charles Hayden
Edward Johnson, Jr.
Frederick Wait Lord
Henry Adams Morss
Henry Greenleaf Pearson
Herbert Sturgis Potter
Edward Bryant Randall
James Henry Reed, Jr.
John Watson Tarbox
James Winthrop Tewksbury
Walter Bacon Trowbridge
Harry Hayward Young
Alpha Delta Phi
Frederick Williamson Smith  Johns Hopkins Univ.

Alpha Tau Omega
William Ellis Farnham  .  Brown University
William Thomas Lane  .  University of Maine
Robert Bass Morton  .  University of Vermont
William James Sayward  .  University of Vermont
George Truman Wilson  .  University of Maine

Beta Theta Pi
Stuart Walcott  .  University of Wisconsin

Chi Psi
Frank Morris Riley  .  University of Wisconsin

Delta Phi
Paul Gerhard L. Hilken  .  Lehigh University
Robert H. Brown  .  New York University

Phi Delta Theta
Floyd Byron Hill  .  University of Michigan
Pierre Barbeau Pendill  .  University of Michigan
William Lowry Gillett  .  University of the South

Q. T. V.
Charles Franklin Willard  .  Durham, N. H.

Psi Upsilon
William Truman Aldrich  .  Brown University
Walter Irving Martin  .  Chicago University
William Jesse Newlin  .  Amherst College

Sigma Phi
John Reynold Marvin  .  Hamilton College

Theta Delta Chi
Mortimer Bristol Foster, Col. of the City of N. Y.

Zeta Psi
Herbert Harley Kennedy  .  Brown University
Frederick Howard Tillinghast  .  Brown University

Phi Kappa Psi
H. Baertje  .  Johns Hopkins University

Sigma Xi
Charles Huntington Porter  .  Brown University
### Fraternity Summary

<table>
<thead>
<tr>
<th>Fraternity</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sigma Chi</td>
<td>23</td>
</tr>
<tr>
<td>Delta Psi</td>
<td>21</td>
</tr>
<tr>
<td>Chi Phi</td>
<td>26</td>
</tr>
<tr>
<td>Delta Kappa Epsilon</td>
<td>23</td>
</tr>
<tr>
<td>Phi Beta Epsilon</td>
<td>21</td>
</tr>
<tr>
<td>Delta Upsilon</td>
<td>22</td>
</tr>
<tr>
<td>Sigma Alpha Epsilon</td>
<td>32</td>
</tr>
<tr>
<td>Phi Gamma Delta</td>
<td>17</td>
</tr>
<tr>
<td>Theta Xi</td>
<td>5</td>
</tr>
<tr>
<td>Other Fraternities represented</td>
<td>23</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>213</strong></td>
</tr>
</tbody>
</table>

### Statistics of Fraternity Men at Technology since 1885

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of men</th>
<th>Per cent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1885-86</td>
<td>52</td>
<td>8.5</td>
</tr>
<tr>
<td>1886-87</td>
<td>42</td>
<td>8.9</td>
</tr>
<tr>
<td>1887-88</td>
<td>42</td>
<td>6.1</td>
</tr>
<tr>
<td>1888-89</td>
<td>45</td>
<td>5.4</td>
</tr>
<tr>
<td>1889-90</td>
<td>93</td>
<td>10.8</td>
</tr>
<tr>
<td>1890-91</td>
<td>158</td>
<td>16.0</td>
</tr>
<tr>
<td>1891-92</td>
<td>184</td>
<td>17.1</td>
</tr>
<tr>
<td>1892-93</td>
<td>207</td>
<td>18.8</td>
</tr>
<tr>
<td>1893-94</td>
<td>191</td>
<td>16.5</td>
</tr>
<tr>
<td>1894-95</td>
<td>201</td>
<td>16.9</td>
</tr>
<tr>
<td>1895-96</td>
<td>192</td>
<td>16.2</td>
</tr>
<tr>
<td>1896-97</td>
<td>189</td>
<td>15.8</td>
</tr>
<tr>
<td>1897-98</td>
<td>173</td>
<td>14.4</td>
</tr>
<tr>
<td>1898-99</td>
<td>189</td>
<td>16.1</td>
</tr>
<tr>
<td>1899-1900</td>
<td>216</td>
<td>18.4</td>
</tr>
<tr>
<td>1900-1901</td>
<td>213</td>
<td>17.9</td>
</tr>
</tbody>
</table>
LOCAL

SOCIETIES
K₂ S
Established 1883

MEMBERS

Charles Duncan Brewer
William Nathaniel Brown
Charles Walker Cade
Harlen Monroe Chapman
Frederick Ward Coburn
Charles Hamilton Dennison
Robert Seaver Edwards
Harry Raymond Healey
Albert Willis Higgins
William Herbert Morse Latshaw
Marquis Edgar Mason

Ashton Clifford Persons
Joseph Ernest Philbrick
Ralph Chandler Robinson
Frederic Henry Sexton
Herbert Leslie Sherman
George Percival Shute
Albert Frederick Sulzer
William Waterman, Jr.
Lowell Bosworth Wilder
Robert Seaton Williams
Howard Irving Wood

Honorary Members K₂ S

Fred L. Bardwell
Samuel Cabot
Henry Carmichael
James M. Crafts
Charles R. Cross
William S. Davenport
Thomas M. Drown
Thomas Evans
Henry Fay
Augustus H. Gill
Heinrich O. Hofman
G. Russell Lincoln
Arthur D. Little

Richard W. Lodge
F. Jewett Moore
Samuel P. Mulliken
James F. Norris
Arthur A. Noyes
Thomas E. Pope
Robert H. Richards
George W. Rolfe
William T. Sedgwick
John W. Smith
Henry P. Talbot
William H. Walker
Willis R. Whitney
OFFICERS

Henry Wick Chambers, President
Frederick Ickes Merrick, Vice President
Stanley Collamore Sears, Secretary
Mortimer Bristol Foster, Treasurer

MEMBERS

Charles Ward Adams
William Truman Aldrich
Warren Ira Bickford
George Bright, Jr.
Henry Wick Chambers
Mortimer Bristol Foster
Thayer Prescott Gates
Bertram William Batchelder Greene

George Taylor Hyde
J. D. Ireland
Charles W. Kellogg, Jr.
Harry George Koch
Russell Bryant Lowe
Frederick Ickes Merrick
Franklin Tinker Root
Stanley Collamore Sears
Sherwood Club

OFFICERS

Robin Hood, Edward Cutter Thompson
Little John, Mayes Cooper
Friar Tuck, Charles Stinchfield Cole

Outlaws
Ralph Curtis Jordan
Roland Hunnewell Ballou
William Johnston Bay

Class of 1902

George Bright, Jr. Thayer Prescott Gates
Walter Lorrain Cook Charles Wetmore Kellogg, Jr.
Archibald Hyde Ehle Russell Bryant Lowe
Theodore Vietor Fowler, Jr. Mortimer Livingston Nagel
Edwin Whitman Sturtevant

Class of 1903

Charles Stinchfield Cole Charles Wickershams Elmer
Mayes Cooper Alexander Healy
Roland Hunnewell Ballou Ralph Curtis Jordan
William Johnston Bay John Howard Pew
Edward Cutter Thompson
OFFICERS

Chief
FRANCIS W. DAVIS

Chief's Daughter
CHARLES J. McINTOSH

Council of War
J. LAWRENCE GILSON

Medicine Man
BENJAMIN NIELDS, JR.

Findley Burns
MILFORD WERTHEIMER

Class of 1903
HOWARD BREED
FRANKLIN S. BRADLEY
ROGER A. BURR
WALTER M. DRURY

Braves
MORTIMER Y. FERRIS
ANDREW H. HEPBURN
LOUIS B. RAPP
GORDON M. STEARNS

George B. Seyms

Class of 1904

Braves
L. G. BOUSCAREN
H. W. BULL
H. K. CHAPIN
S. A. McCLUNG, JR.
J. W. COBB
T. P. HENDERSON
G. LANDRUS

J. G. METCALF
C. L. RODGERS
C. SAVILLE
J. M. SCOTT
C. S. SPERRY, JR.
T. WAKEFIELD
A. W. WELLS
Round Table

King Arthur, George Beach Seyms
Queen Guinevere, Findley Burns
Merlin, Mortimer Yale Ferris

Knights:
Charles Jewell McIntosh
Milford Wertheimer

Louis Ballauf Rapp

Franklin Sawyer Bradley
Howard Breed
Findley Burns
Claudius Howard Cooper
Francis Woodward Davis
Walter Maynard Drury
Mortimer Yale Ferris
John Lawrence Gilson

Andrew Hopewell Hepburn
Robert Penneman Marsh
Charles Jewell McIntosh
Benjamin Nielts, Jr.
Louis Ballauf Rapp
George Beach Seyms
Floyd Thomas Taylor
Milford Wertheimer

122
Athletics

ATHLETICS at Technology have been handicapped by a lack of training facilities and a general lack of cooperation on the part of the student body. The extent and nature of the work required by the Institute is undoubtedly the cause of the greater part of this lack of cooperation. In recent years, however, a rapid growth of interest has enabled Technology to be represented by teams which have made a most creditable showing.

The work of these teams may be judged by the records for the past year, appended in the following pages. By these records one may see that these teams have been generally successful. The success achieved has been gained, for the most part, by the untiring efforts of a few, who deserve a great deal of credit.

President Pritchett, in the short time that he has been with us, has shown a marked interest in our athletics. This support on the part of the head of the Faculty, together with the assured completion of the Walker Memorial Gymnasium, bids well for Technology’s success in the future.
ONE result of the reorganization of the M. I. T. Athletic Association in 1897 was the formation of an Advisory Council to superintend all athletics at the Institute. The Athletic Advisory Council was organized and held its first meeting January 1, 1898.

The purpose of the Council is set forth in the following extract from its Constitution: — "The purpose of this organization shall be to regulate the general athletic interests of students at M. I. T., to exercise supervision over the management, and to assume control at any time it is deemed necessary of all funds, or income, or income from funds, in any way connected with athletics, and have final jurisdiction in all matters pertaining thereunto."

**Chairman**

**Frank H. Briggs, '81**

**Treasurer**

**Harry L. Morse, '99**

**Acting Secretary**

**Ray Murray, '01**

**Representatives from M. I. T. Alumni Association**

**Thomas Hibbard, '75**

**Harry L. Morse, '99**

**Frank H. Briggs, '81**

**Representative from Institute Committee**

**Louis S. Cates, '02**

**Representative from M. I. T. Athletic Association**

**Ray Murray, '01**

**Representative from M. I. T. Foot Ball Association**

**Harry W. Maxson, '01**

125
THE Technology Athletic Club, although in existence for many years, was not formally organized until October 13, 1894. Later, in 1897, it was reorganized as the M. I. T. Athletic Association.

The Association has full charge of all Track Athletics at the Institute and holds three closed meets each year: e. g., the Fall Handicap Games in October, the Indoor Winter Meet in December, and the Spring Games in May. Representatives of the classes compete in these games, the points won in the winter and spring meets counting towards the winning of the Class Championship Cup offered by the Association. As a member of the N. E. I. A. A. the Association sends to Worcester each year, a representative team to compete in the Intercollegiate Championship Games. For the last two years dual meets have been held with Brown University.

OFFICERS

President
Herbert Milton McMaster, '01

Vice President
Harry Peake McDonald, Jr., '01

Secretary
Robert Vaughn Brown, '02

Treasurer, Charles Adrian Sawyer, Jr., '02
Representative to Advisory Council, Ray Murray, '01
Manager of Track Team, Percy Harry Parrock, '01

Executive Committee
Richard Lincoln Frost, '02, Captain of Technology Track Team
Harry Peake McDonald, Jr., Captain of 1901 Track Team
Robert Vaughn Brown, Captain of 1902 Track Team
Henry Thornton Winchester, Captain of 1903 Track Team
Joseph Warren Crowell, Captain of 1904 Track Team

126
The New England Intercollegiate Athletic Association

The organization of the New England Intercollegiate Athletic Association was effected November 23, 1886, by representatives from Amherst, Bowdoin, Brown, Dartmouth, Trinity, Tufts and Williams. Other colleges have since joined the Association until the members now number eleven.

The Association is an independent organization, being governed by its own officers and rules. All business is transacted at a convention of delegates which meets in Boston the second Saturday of February. Each college sends not more than three delegates, one of whom being allowed to vote. The officers are elected at this time, not more than one officer from any one college. The Association holds an Annual Field Meet, — usually at Worcester — each college in the Association being required to send at least one entry.

Technology joined the Association in 1894, winning the “Championship” that year. Last year Technology won fifth place, and this year the prospects are excellent for a much higher standing.

Officers

President, E. S. Goldthwaite, Williams
Vice President, H. S. Parker, Dartmouth
Secretary, R. J. Cleeland, Amherst
Treasurer, H. T. Winchester, Technology

Executive Committee

G. R. Walker, Bowdoin
H. Wells, Wesleyan
M. Barton, Trinity

Members

Dartmouth College
Brown University
Bowdoin College
Institute of Technology
Wesleyan University
University of Maine
Amherst College
Williams College
Trinity College
Tufts College

Winners of the Championship

1887 Dartmouth
1888 Amherst
1889 Dartmouth
1890 Amherst
1891 Amherst
1892 Amherst
1893 Dartmouth
1894 Technology
1895 Dartmouth
1896 Dartmouth
1897 Dartmouth
1898 Dartmouth
1899 Bowdoin
1900 Williams
Technology Track Team
W. T. T.

1900-1901

Sears  McDonald  Rowe  Murray
Driscol  Frost
Greene  Corbett  Baxter  Parrock  Winchester
Baker  Brown
OFFICERS

Captain
Richard Lincoln Frost, '02

Manager
Percy Harry Parrock, '01

TEAM

Edward Sherman Baker, '02
Francis Kernan Baxter, Jr., '01
Robert Vaughn Brown, '02
Walter England Calley, '03
James Driscoll, '02
Francis Bird Dutton, '00
Richard Lincoln Frost, '02

Carleton Francis Greene, '03
Harry Peake McDonald, Jr., '01
Ray Murray, '01
Robert Anderson Pope, '02
Allan Winter Rowe, '01
Stanley Collamore Sears, '00
Henry Thornton Winchester, '03
# The Fourteenth Annual Meet of the New England Intercollegiate Athletic Association

**WORCESTER, MAY 19, 1900**

<table>
<thead>
<tr>
<th>Event</th>
<th>Winners</th>
<th>Time, Height, or Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-Yard Dash</td>
<td>H. H. Cloudman, Bowdoin</td>
<td>10 1-5 sec.</td>
</tr>
<tr>
<td></td>
<td>R. S. Edwards, Bowdoin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. G. McDavitt, Dartmouth</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. G. McDavitt, Dartmouth</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. C. Patterson, Williams</td>
<td></td>
</tr>
<tr>
<td>440-Yard Run</td>
<td>L. R. Hill, Dartmouth</td>
<td>52 3-5 sec.</td>
</tr>
<tr>
<td></td>
<td>C. F. Park, Williams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. F. Snow, Bowdoin</td>
<td></td>
</tr>
<tr>
<td>880-Yard Run</td>
<td>D. C. Hall, Brown</td>
<td>2 min. 4 2-5 sec.</td>
</tr>
<tr>
<td></td>
<td>F. H. Klear, Amherst</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H. L. Trull, Dartmouth</td>
<td></td>
</tr>
<tr>
<td>One-Mile Run</td>
<td>J. Bray, Williams</td>
<td>4 min. 43 4-5 sec.</td>
</tr>
<tr>
<td></td>
<td>R. L. Frost, M. I. T.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E. C. Hawley, Amherst</td>
<td></td>
</tr>
<tr>
<td>Two-Mile Run</td>
<td>D. C. Hall, Brown</td>
<td>10 min. 39 sec.</td>
</tr>
<tr>
<td></td>
<td>J. Bray, Williams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E. C. Hawley, Amherst</td>
<td></td>
</tr>
<tr>
<td>Two-Mile Bicycle**</td>
<td>R. Murray, M. I. T.</td>
<td>*4 min. 36 4-5 sec.</td>
</tr>
<tr>
<td></td>
<td>B. L. Wells, Williams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H. E. Brown, Brown</td>
<td></td>
</tr>
<tr>
<td>120-Yard High Hurdle</td>
<td>P. Potter, Williams</td>
<td>16 1-5 sec.</td>
</tr>
<tr>
<td></td>
<td>P. P. Edson, Dartmouth</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H. J. Hunt, Bowdoin</td>
<td></td>
</tr>
<tr>
<td>220-Yard Low Hurdle</td>
<td>R. S. Edwards, Bowdoin</td>
<td>26 1-5 sec.</td>
</tr>
<tr>
<td></td>
<td>E. H. Tuttle, Brown</td>
<td></td>
</tr>
<tr>
<td></td>
<td>P. Potter, Williams</td>
<td></td>
</tr>
<tr>
<td>Running Broad Jump</td>
<td>H. H. Cloudman, Bowdoin</td>
<td>*22 ft. 8 in.</td>
</tr>
<tr>
<td></td>
<td>C. N. Brown, Brown</td>
<td>22 ft. 1 1-2 in.</td>
</tr>
<tr>
<td></td>
<td>G. M. Hubbard, Dartmouth</td>
<td>21 ft. 11 1-4 in.</td>
</tr>
<tr>
<td>Running High Jump</td>
<td>L. G. Blackmer, Williams</td>
<td>†5 ft. 9 in.</td>
</tr>
<tr>
<td></td>
<td>F. K. Baxter, Jr., M. I. T.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R. M. Shayne, Williams</td>
<td></td>
</tr>
</tbody>
</table>

139
SUMMARY OF POINTS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>100-Yard Dash</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>880-Yard Run</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>High Hurdles</td>
<td>5</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>440-Yard Run</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mile Run</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Low Hurdles</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>220-Yard Dash</td>
<td>1</td>
<td>0</td>
<td>5</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Two-Mile Run</td>
<td>3</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Pole Vault</td>
<td>5 3/5</td>
<td>3/5</td>
<td>0</td>
<td>3 3/3</td>
<td>3/3</td>
<td>0</td>
<td>3 3/3</td>
<td>3/3</td>
</tr>
<tr>
<td>Shot Put</td>
<td>1</td>
<td>5</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>High Jump</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hammer Throw</td>
<td>0</td>
<td>6</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Broad Jump</td>
<td>0</td>
<td>3</td>
<td>5</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Discus</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Two-Mile Bicycle</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

* N. E. I. A. A. Record.
** Charles River Park, Cambridge, May 21, 1900.
† Tie. Three points each.
‡ Tie. Two-thirds of a point each. In drawing for prizes R. S. Phillips, Amherst, drew second, and T. S. Cline, Wesleyan, drew third.
## Dual Meet

<table>
<thead>
<tr>
<th>Event</th>
<th>Winner</th>
<th>Time, Height, or Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R. V. Brown, M. I. T.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R. H. Smith, Brown</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R. H. Smith, Brown</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. W. Rowe, M. I. T.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>F. M. Kinsley, Brown</td>
<td></td>
</tr>
<tr>
<td></td>
<td>W. Smith, Brown</td>
<td></td>
</tr>
<tr>
<td>880-Yard Run</td>
<td>D. C. Hall, Brown</td>
<td>2 min. 15 2-5 sec.</td>
</tr>
<tr>
<td></td>
<td>M. H. Cann, Brown</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. F. Greene, M. I. T.</td>
<td></td>
</tr>
<tr>
<td>One-Mile Run</td>
<td>D. C. Hall, Brown</td>
<td>4 min. 48 sec.</td>
</tr>
<tr>
<td></td>
<td>R. L. Frost, M. I. T.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S. C. Sears, M. I. T.</td>
<td></td>
</tr>
<tr>
<td>Two-Mile Run</td>
<td>D. C. Hall, Brown</td>
<td>11 min.</td>
</tr>
<tr>
<td></td>
<td>P. Erwin, Brown</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E. M. Adye, Brown</td>
<td></td>
</tr>
<tr>
<td>Two-Mile Bicycle</td>
<td>R. Murray, M. I. T.</td>
<td>5 min. 21 sec.</td>
</tr>
<tr>
<td></td>
<td>J. Driscoll, M. I. T.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. P. Lynch, Brown</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E. S. Baker, M. I. T.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>J. F. O'Gara, Brown</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R. A. Pope, M. I. T.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E. H. Tuttle, Brown</td>
<td></td>
</tr>
<tr>
<td>Running Broad Jump</td>
<td>C. W. Brown, Brown</td>
<td>21 ft. 6 in.</td>
</tr>
<tr>
<td></td>
<td>B. H. Greene, Brown</td>
<td>20 ft. 4 in.</td>
</tr>
<tr>
<td></td>
<td>F. K. Baxter, Jr., M. I. T.</td>
<td>20 ft. 3 in.</td>
</tr>
<tr>
<td>Running High Jump</td>
<td>F. K. Baxter, Jr., M. I. T.</td>
<td>5 ft. 8 in.</td>
</tr>
<tr>
<td></td>
<td>C. W. Brown, Brown</td>
<td>5 ft. 6 in.</td>
</tr>
<tr>
<td></td>
<td>R. A. Pope, M. I. T.</td>
<td>5 ft. 5 in.</td>
</tr>
<tr>
<td>Pole Vault</td>
<td>A. T. Holton, Brown</td>
<td>9 ft. 6 in.</td>
</tr>
<tr>
<td></td>
<td>R. A. Pope, M. I. T.</td>
<td>9 ft. 6 in.</td>
</tr>
<tr>
<td></td>
<td>F. K. Baxter, Jr., M. I. T.</td>
<td>*9 ft. 3 in.</td>
</tr>
</tbody>
</table>
Putting Shot (16 lbs.)
  J. G. Melendy, Brown . . . . 40 ft. 1-2 in.
  H. T. Winchester, M. I. T. . . 36 ft. 8 in.
  H. P. McDonald, Jr., M. I. T. . 36 ft. 7 in.

Throwing Hammer (16 lbs.)
  N. Johnson, Brown . . . . 109 ft. 3 in.
  J. G. Melendy, Brown . . . . 94 ft. 4 in.
  T. H. Stearns, Brown . . . . 90 ft. 6 in.

Discus Throw
  L. Washburn, Brown . . . . 109 ft. 4 in.
  N. Johnson, Brown . . . . 105 ft. 2 in.
  H. T. Winchester, M. I. T. . . 97 ft. 6 in.

* Tied for second place.

SUMMARY OF POINTS

<table>
<thead>
<tr>
<th>Event</th>
<th>Brown</th>
<th>M.I.T.</th>
<th>Brown M.I.T.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-Yard Dash</td>
<td>6</td>
<td>3</td>
<td>Running Broad Jump</td>
</tr>
<tr>
<td>220-Yard Dash</td>
<td>8</td>
<td>1</td>
<td>Running High Jump</td>
</tr>
<tr>
<td>440-Yard Run</td>
<td>4</td>
<td>5</td>
<td>Pole Vault</td>
</tr>
<tr>
<td>880-Yard Run</td>
<td>8</td>
<td>1</td>
<td>Running Broad Jump</td>
</tr>
<tr>
<td>One-Mile Run</td>
<td>5</td>
<td>4</td>
<td>Hammer Throw (16 lbs.)</td>
</tr>
<tr>
<td>Two-Mile Run</td>
<td>9</td>
<td>0</td>
<td>Discus Throw</td>
</tr>
<tr>
<td>Two-Mile Bicycle</td>
<td>1</td>
<td>8</td>
<td>Totals</td>
</tr>
<tr>
<td>120-Yard High Hurdle</td>
<td>1</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>220-Yard Low Hurdle</td>
<td>1</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

M. I. T. DUAL TEAM

E. S. Baker, '02
F. K. Baxter, Jr., '01
R. V. Brown, '02
W. E. Calley, '03
E. B. Crane, '02
J. Driscoll, '02
F. B. Dutton, '00
A. J. Eveland, '01
D. D. Field, '02
G. H. French, '02
R. L. Frost, '02
G. H. Gleason, '03
L. du P. Hounfield, '01

R. B. Lowe, '02
G. B. Manson, '03
H. P. McDonald, Jr., '01
H. M. McMaster, '00
R. Murray, '01
W. P. R. Pember, '02
R. A. Pope, '02
A. W. Rowe, '01
S. C. Sears, '00
O. S. Stockman, '01
A. K. Trenholme, '01
G. D. Wilson, '03
H. T. Winchester, '03

P. H. Worcester, '02

133
M. I. T. A. A. Class Championship CUP

Previous to October, 1900, the Class Championship Cup has been awarded each year to the Class winning the largest total number of points in the Fall Indoor and Spring Games of the same scholastic year. At a meeting of the Executive Committee of the M. I. T. A. A. last Fall, it was decided to award the Championship in the future to the Class winning the majority of points in scratch events only. Hence the points won in the Indoor and Spring Games will hereafter determine the championship.

Each Class winning the Championship has a small shield affixed to the cup’s ebony pedestal. On the shield is engraved the numerals of the Class, together with the year in which the Championship was won and the total number of points.

In the summation of points for the Championship, first place counts five points, second place counts three points, and third place counts one point.

The scores for the past year are as follows:

<table>
<thead>
<tr>
<th>1901</th>
<th>116</th>
<th>1902</th>
<th>104</th>
</tr>
</thead>
<tbody>
<tr>
<td>1900</td>
<td>66</td>
<td>1903</td>
<td>55</td>
</tr>
</tbody>
</table>
1901 Track Team
M. E. T.

1900-1901

BAXTER  McDONALD  ROWE  CARR
FLEMING  MURRAY  WILDER  STOCKMAN  Eveland
GARRETT  STOCKMAN  MARCUS
Champion of the Classes 1900-1901

OFFICERS

Captain
HARRY PEAKE MC DONALD, JR.

Manager
ORLANDO SARGENT STOCKMAN

TEAM

FRANCIS KERNAN BAXTER, JR.
JAMES HENRY CARR
CLINTON MERRIL DEARDEN
ARTHUR JOHN EVELAND
EDWARD PICKERING FLEMING
WILLIAM WARREN GARRETT
ARTHUR GUNDESON HAYDEN
JAMES BRADFORD LAWS

HENRY CHARLES MARCUS
HARRY PEAKE MC DONALD, JR.
HERBERT MILTON McM ASTER
RAY MURRAY
OLIVER HAZARD PERRY, JR.
ALLAN WINTER ROWE
ORLANDO SARGENT STOCKMAN
LOWELL BOSWORTH WILDER

137
<table>
<thead>
<tr>
<th>Event</th>
<th>Winners</th>
<th>Time, Height, or Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-Yard Dash</td>
<td>A. W. Rowe, '01</td>
<td>10 4-5 sec.</td>
</tr>
<tr>
<td></td>
<td>G. H. Gleason, '03</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H. T. Winchester, '03</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. W. Rowe, '01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H. T. Winchester, '03</td>
<td></td>
</tr>
<tr>
<td>440-Yard Run</td>
<td>W. P. R. Pember, '02</td>
<td>57 1-5 sec.</td>
</tr>
<tr>
<td></td>
<td>W. H. Williston, '02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>W. E. Calley, '03</td>
<td></td>
</tr>
<tr>
<td>880-Yard Run</td>
<td>R. L. Frost, '02</td>
<td>2 min. 17 2-5 sec.</td>
</tr>
<tr>
<td></td>
<td>C. F. Greene, '03</td>
<td></td>
</tr>
<tr>
<td></td>
<td>W. H. Williston, '02</td>
<td></td>
</tr>
<tr>
<td>One-Mile Run</td>
<td>R. L. Frost, '02</td>
<td>4 min. 53 sec.</td>
</tr>
<tr>
<td></td>
<td>S. C. Sears, '00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H. F. Peaslee, '03</td>
<td></td>
</tr>
<tr>
<td>Two-Mile Run</td>
<td>O. S. Stockman, '01</td>
<td>11 min. 5 sec.</td>
</tr>
<tr>
<td></td>
<td>D. D. Field, '02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>P. H. Worcester, '02</td>
<td></td>
</tr>
<tr>
<td>Two-Mile Bicycle</td>
<td>R. Murray, '01</td>
<td>*4 min. 49 4-5 sec.</td>
</tr>
<tr>
<td></td>
<td>J. H. Carr, '01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. J. Eveland, '01</td>
<td></td>
</tr>
<tr>
<td>120-Yard High Hurdle</td>
<td>W. E. Calley, '03</td>
<td>17 3-5 sec.</td>
</tr>
<tr>
<td></td>
<td>R. A. Pope, '02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E. S. Baker, '02</td>
<td></td>
</tr>
<tr>
<td>220-Yard Low Hurdle</td>
<td>R. V. Brown, '02</td>
<td>27 3-5 sec.</td>
</tr>
<tr>
<td></td>
<td>R. A. Pope, '02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. L. Magnitzky, '03</td>
<td></td>
</tr>
<tr>
<td>Running Broad Jump</td>
<td>F. K. Baxter, Jr., '01</td>
<td>19 ft. 10 1-2 in.</td>
</tr>
<tr>
<td></td>
<td>W. P. R. Pember, '00</td>
<td>19 ft. 3 1-2 in.</td>
</tr>
<tr>
<td></td>
<td>E. P. Fleming, '01</td>
<td>19 ft. 2 1-2 in.</td>
</tr>
<tr>
<td>Running High Jump</td>
<td>F. K. Baxter, Jr., '01</td>
<td>5 ft. 7 1-4 in.</td>
</tr>
<tr>
<td></td>
<td>H. P. McDonald, Jr., '01</td>
<td>5 ft. 1 1-4 in.</td>
</tr>
<tr>
<td></td>
<td>H. T. Winchester, '03</td>
<td>4 ft. 10 in.</td>
</tr>
<tr>
<td>Pole Vault</td>
<td>F. K. Baxter, Jr., '01</td>
<td>9 ft. 3 in.</td>
</tr>
<tr>
<td></td>
<td>F. Gannett, '02</td>
<td>9 ft.</td>
</tr>
<tr>
<td></td>
<td>E. S. Baker, '02</td>
<td>8 ft. 10 in.</td>
</tr>
<tr>
<td>Putting Shot (16 lbs.)</td>
<td>H. P. McDonald, Jr., '01</td>
<td>37 ft. 7 1-4 in.</td>
</tr>
<tr>
<td></td>
<td>H. T. Winchester, '03</td>
<td>37 ft. 4 1-2 in.</td>
</tr>
<tr>
<td></td>
<td>E. B. Crane, '02</td>
<td>37 ft. 4 in.</td>
</tr>
<tr>
<td>Throwing Hammer (16 lbs.)</td>
<td>G. H. French, '02</td>
<td>82 ft.</td>
</tr>
<tr>
<td></td>
<td>E. B. Crane, '02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H. T. Winchester, '03</td>
<td></td>
</tr>
<tr>
<td>Discus Throw</td>
<td>H. T. Winchester, '03</td>
<td>*104 ft. 3 in.</td>
</tr>
<tr>
<td></td>
<td>L. A. Crowell, '00</td>
<td>97 ft. 8 in.</td>
</tr>
<tr>
<td></td>
<td>E. P. Fleming, '01</td>
<td>97 ft. 4 in.</td>
</tr>
</tbody>
</table>

*M. I. T. A. A. record.
## Annual Fall Handicap Games

**CHARLESBANK, OCT. 20, 1900**

<table>
<thead>
<tr>
<th>Event</th>
<th>Winners</th>
<th>Handicap</th>
<th>Time, Height, or Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-Yard Dash</td>
<td>J. W. Crowell, '04, 5 yards</td>
<td>F. D. Avery, '02, 4 3/4 yards</td>
<td>10 2-5 sec.</td>
</tr>
<tr>
<td></td>
<td>H. T. Winchester, '03, 3 yards</td>
<td>F. D. Avery, '02, 4 3/4 yards</td>
<td></td>
</tr>
<tr>
<td></td>
<td>W. B. Boggs, '04, 8 yards</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F. D. Avery, '02, 10 yards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>440-Yard Run</td>
<td>W. H. Williston, '02, 6 yards</td>
<td>G. B. Manson, '04, 40 yards</td>
<td>56 1-5 sec.</td>
</tr>
<tr>
<td></td>
<td>F. B. Galaher, '02, 15 yards</td>
<td>O. S. Swenson, '04, 20 yards</td>
<td></td>
</tr>
<tr>
<td>880-Yard Run</td>
<td>G. B. Manson, '03, 40 yards</td>
<td>G. H. Shaw, '03, 40 yards</td>
<td>2 min. 17 sec.</td>
</tr>
<tr>
<td></td>
<td>W. H. Williston, '02, scratch</td>
<td>H. F. Peaslee, '03, 40 yards</td>
<td></td>
</tr>
<tr>
<td></td>
<td>G. H. Shaw, '03, 40 yards</td>
<td>S. T. Worcester, '04, 15 yards</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>W. F. Robertson, '03, 100 yards</td>
<td></td>
</tr>
<tr>
<td>One-Mile Run</td>
<td>H. F. Peaslee, '03, 100 yards</td>
<td>C. M. Dearden, '01, scratch</td>
<td>4 min. 53 sec.</td>
</tr>
<tr>
<td>Two-Mile Run</td>
<td>S. T. Worcester, '04, 15 yards</td>
<td>H. F. Peaslee, '03, 140 yards</td>
<td></td>
</tr>
<tr>
<td></td>
<td>W. F. Robertson, '03, 100 yards</td>
<td>F. H. Hunter, '02, 130 yards</td>
<td></td>
</tr>
<tr>
<td>120-Yard High Hurdle</td>
<td>E. S. Baker, '02</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(By default)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>220-Yard Low Hurdle</td>
<td>E. S. Baker, '02</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(By default)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Running Broad Jump</td>
<td>A. M. Reed, '04, 2 feet</td>
<td>H. T. Winchester, '03, 18 inches</td>
<td>20 ft. 3 in.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F. K. Baxter, Jr., '01, scratch</td>
<td>20 ft. 1 in.</td>
</tr>
<tr>
<td>Running High Jump</td>
<td>H. T. Winchester, '03, 5 inches</td>
<td>G. R. Spaulding, '03, 7 inches</td>
<td>5 ft. 5 1-2 in.</td>
</tr>
<tr>
<td></td>
<td>F. K. Baxter, Jr., '01, scratch</td>
<td>G. R. Spaulding, '03, 1 foot</td>
<td>5 ft. 1 in.</td>
</tr>
<tr>
<td></td>
<td>G. R. Spaulding, '03, 1 foot</td>
<td>F. K. Baxter, Jr., '01, scratch</td>
<td></td>
</tr>
<tr>
<td>Pole Vault</td>
<td>H. W. Sherrill, '04, 8 inches</td>
<td>F. K. Baxter, Jr., '01, scratch</td>
<td></td>
</tr>
<tr>
<td></td>
<td>G. R. Spaulding, '03, 1 foot</td>
<td>G. R. Spaulding, '03, 1 foot</td>
<td>9 ft. 9 in.</td>
</tr>
<tr>
<td></td>
<td>F. K. Baxter, Jr., '01, scratch</td>
<td>F. K. Baxter, Jr., '01, scratch</td>
<td>9 ft. 7 in.</td>
</tr>
<tr>
<td>Putting Shot (16 lbs.)</td>
<td>H. T. Winchester, '03, scratch</td>
<td>H. T. Winchester, '03, 15 feet</td>
<td>35 ft. 7 1-4 in.</td>
</tr>
<tr>
<td></td>
<td>F. K. Baxter, Jr., '01, 4 feet</td>
<td>H. P. McDonald, Jr., '01, scratch</td>
<td>35 ft. 4 1-4 in.</td>
</tr>
<tr>
<td></td>
<td>G. R. Spaulding, '03, 1 foot</td>
<td>R. W. Bailey, '01, 15 feet</td>
<td>32 ft. 9 in.</td>
</tr>
<tr>
<td>Throwing Hammer (16 lbs.)</td>
<td>R. M. Field, '03, 10 feet</td>
<td>R. W. Bailey, '01, 15 feet</td>
<td>77 ft. 5 in.</td>
</tr>
<tr>
<td></td>
<td>H. T. Winchester, '03, 10 feet</td>
<td>H. T. Winchester, '03, 15 feet</td>
<td>66 ft. 4 in.</td>
</tr>
<tr>
<td></td>
<td>F. K. Baxter, Jr., '01, 4 feet</td>
<td>R. W. Bailey, '01, 15 feet</td>
<td>59 ft. 5 in.</td>
</tr>
<tr>
<td>Discus Throw</td>
<td>E. P. Fleming, '01, 6 1/2 feet</td>
<td>E. P. Fleming, '01, 6 1/2 feet</td>
<td>101 ft. 2 in.</td>
</tr>
<tr>
<td></td>
<td>H. T. Winchester, scratch</td>
<td>H. T. Winchester, scratch</td>
<td>99 ft. 10 in.</td>
</tr>
<tr>
<td></td>
<td>H. C. Crowell, '03, 6 1/2 feet</td>
<td>H. C. Crowell, '03, 6 1/2 feet</td>
<td>96 ft. 6 in.</td>
</tr>
</tbody>
</table>
## Annual Indoor Games

**TECHNOLOGY GYMNASIUM, DEC. 21, 1900**

<table>
<thead>
<tr>
<th>Event</th>
<th>Winners</th>
<th>Time, Height, or Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>J. W. Crowell, '04</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H. T. Winchester, '03</td>
<td></td>
</tr>
<tr>
<td>35-Yard Low Hurdle</td>
<td>R. V. Brown, '02</td>
<td>5 1-5 sec.</td>
</tr>
<tr>
<td></td>
<td>G. H. Gleason, '03</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N. E. Borden, '02</td>
<td></td>
</tr>
<tr>
<td>Potato Race</td>
<td>E. L. Doyle, '04</td>
<td>29 4-5 sec.</td>
</tr>
<tr>
<td></td>
<td>R. V. Brown, '02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>J. W. Crowell, '04</td>
<td></td>
</tr>
<tr>
<td>Running High Jump</td>
<td>F. K. Baxter, Jr., '01</td>
<td>5 ft. 10 in.</td>
</tr>
<tr>
<td></td>
<td>G. A. Curtis, '04</td>
<td>5 ft. 6 in.</td>
</tr>
<tr>
<td></td>
<td>H. T. Winchester, '03</td>
<td>5 ft. 3 in.</td>
</tr>
<tr>
<td>Standing Broad Jump</td>
<td>F. K. Baxter, Jr., '01</td>
<td>9 ft. 11 in.</td>
</tr>
<tr>
<td></td>
<td>L. B. Wilder, '01</td>
<td>9 ft. 4 in.</td>
</tr>
<tr>
<td></td>
<td>H. T. Winchester, '03</td>
<td>9 ft. 3 1-2 in.</td>
</tr>
<tr>
<td>Putting 16-lb. Shot</td>
<td>H. T. Winchester, '03</td>
<td>*38 ft. 7 1-2 in.</td>
</tr>
<tr>
<td></td>
<td>H. P. McDonald, Jr., '01</td>
<td>36 ft. 6 3-4 in.</td>
</tr>
<tr>
<td></td>
<td>F. K. Baxter, Jr., '01</td>
<td>32 ft. 2 in.</td>
</tr>
<tr>
<td>Pole Vault</td>
<td>F. K. Baxter, Jr., '01</td>
<td>9 ft. 7 1-2 in.</td>
</tr>
<tr>
<td></td>
<td>G. A. Curtis, '04</td>
<td>9 ft. 5 3-4 in.</td>
</tr>
<tr>
<td></td>
<td>G. R. Spaulding, '03</td>
<td>9 ft. 2 1-2 in.</td>
</tr>
<tr>
<td>Fence Vault</td>
<td>H. M. McMaster, '01</td>
<td>6 ft. 7 in.</td>
</tr>
<tr>
<td></td>
<td>L. E. Schlemm, '03</td>
<td>6 ft. 5 1-2 in.</td>
</tr>
<tr>
<td></td>
<td>F. K. Baxter, Jr., '01</td>
<td>6 ft. 4 in.</td>
</tr>
</tbody>
</table>

Class Relay Race, 35-yard relays, won by 1902 (Avery, Grant, Borden, Brown); 1904, second; 1903, third. Time, 15 4-5 sec.

* M.I. T. A. A. Record
M. I. T. A. A. Annual Cross
Country Run

APRIL 13, 1900

Course — To Coolidge Corner and return. Distance — 4 3-4 miles

<table>
<thead>
<tr>
<th>Place</th>
<th>Winners</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>O. S. Stockman, '01</td>
<td>28 min. 48 sec.</td>
</tr>
<tr>
<td>Second</td>
<td>P. H. Worcester, '02</td>
<td></td>
</tr>
<tr>
<td>Third</td>
<td>G. B. Manson, '03</td>
<td></td>
</tr>
<tr>
<td>Fourth</td>
<td>F. H. Hunter, '02</td>
<td></td>
</tr>
<tr>
<td>Fifth</td>
<td>H. A. Stiles, '03</td>
<td></td>
</tr>
</tbody>
</table>
Summary of Points for the Class Championship 1899-1900

CHAMPIONSHIP won by the CLASS of 1901, with 116 Points

FALL Handicap Games, Holmes Field, October 21, 1899

<table>
<thead>
<tr>
<th>Event</th>
<th>'00</th>
<th>'01</th>
<th>'02</th>
<th>'03</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-Yard Dash</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>220-Yard Dash</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>440-Yard Run</td>
<td>0</td>
<td>3</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>880-Yard Run</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>One-Mile Run</td>
<td>3</td>
<td>0</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Two-Mile Run</td>
<td>0</td>
<td>1</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>Two-Mile Bicycle</td>
<td>0</td>
<td>9</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>35-Yard High Hurdle</td>
<td>5</td>
<td>0</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>40-Yard Low Hurdle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Running Broad Jump</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Running High Jump</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pole Vault</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Putting Shot (16 lbs.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Throwing Hammer (16 lbs.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discus Throw</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>45</td>
<td>41</td>
<td>16</td>
</tr>
</tbody>
</table>

ANNUAL Indoor Games, M. I. T. Gymnasium, December 22, 1899

<table>
<thead>
<tr>
<th>Event</th>
<th>'00</th>
<th>'01</th>
<th>'02</th>
<th>'03</th>
</tr>
</thead>
<tbody>
<tr>
<td>35-Yard Dash</td>
<td>8</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Potato Race</td>
<td>5</td>
<td>0</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>35-Yard Low Hurdle</td>
<td>4</td>
<td>0</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Running High Jump</td>
<td>3</td>
<td>5</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Standing Broad Jump</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fence Vault</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Putting Shot (16 lbs.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28</td>
<td>19</td>
<td>9</td>
<td>7</td>
</tr>
</tbody>
</table>

ANNUAL Spring Games, Riverside, May 5, 1900

<table>
<thead>
<tr>
<th>Event</th>
<th>'00</th>
<th>'01</th>
<th>'02</th>
<th>'03</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-Yard Dash</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>220-Yard Dash</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>440-Yard Run</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td>880-Yard Run</td>
<td>0</td>
<td>0</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>One-Mile Run</td>
<td>3</td>
<td>0</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>Two-Mile Run</td>
<td>0</td>
<td>5</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Two-Mile Bicycle</td>
<td>0</td>
<td>9</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>120-Yd. High Hurdle</td>
<td>0</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>220-Yard Low Hurdle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Running Broad Jump</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Running High Jump</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pole Vault</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Putting Shot (16 lbs.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Throwing Hammer (16 lbs.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discus Throw</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>45</td>
<td>41</td>
<td>16</td>
</tr>
</tbody>
</table>

ANNUAL Cross Country Run, April 13, 1900

<table>
<thead>
<tr>
<th>Event</th>
<th>'00</th>
<th>'01</th>
<th>'02</th>
<th>'03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Games</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winter Games</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring Games</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cross Country Run</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course 43/4 Miles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>47</td>
<td>51</td>
<td>31</td>
</tr>
</tbody>
</table>

Totals                     | 142 | 66  | 116 | 104 |

Note: The numbers in the table represent points scored in each event.
Summary of Points for Individual Excellence

N. E. I. A. A. Meet, first place counts 15 points; second, 9; third, 3. Dual Meet, first place counts 10 points; second, 6; third, 2. M. I. T. A. A. Games, first place counts 5 points; second, 3; third, 1.

<table>
<thead>
<tr>
<th>Name</th>
<th>Points</th>
<th>Name</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>F. K. Baxter, Jr., '01</td>
<td>58</td>
<td>R. B. Lowe, '02</td>
<td>6</td>
</tr>
<tr>
<td>H. T. Winchester, '03</td>
<td>37</td>
<td>E. B. Crane, '02</td>
<td>5</td>
</tr>
<tr>
<td>R. Murray, '01</td>
<td>35</td>
<td>A. J. Eveland, '01</td>
<td>5</td>
</tr>
<tr>
<td>J. F. Wentworth, '00</td>
<td>33</td>
<td>G. H. French, '02</td>
<td>5</td>
</tr>
<tr>
<td>R. A. Pope, '02</td>
<td>28</td>
<td>C. F. Greene, '03</td>
<td>5</td>
</tr>
<tr>
<td>R. L. Frost, '02</td>
<td>25</td>
<td>J. B. Laws, '01</td>
<td>5</td>
</tr>
<tr>
<td>R. V. Brown, '02</td>
<td>22</td>
<td>M. W. Hall, '00</td>
<td>4</td>
</tr>
<tr>
<td>W. E. Calley, '03</td>
<td>19</td>
<td>F. H. Hunter, '02</td>
<td>4</td>
</tr>
<tr>
<td>A. W. Rowe, '01</td>
<td>18</td>
<td>W. H. Williston, '02</td>
<td>4</td>
</tr>
<tr>
<td>H. P. McDonald, Jr., '01</td>
<td>15</td>
<td>P. H. Worcester, '03</td>
<td>4</td>
</tr>
<tr>
<td>E. S. Baker, '02</td>
<td>14</td>
<td>J. H. Carr, '01</td>
<td>3</td>
</tr>
<tr>
<td>W. P. R. Pember, '02</td>
<td>13</td>
<td>F. M. Conant, '00</td>
<td>3</td>
</tr>
<tr>
<td>O. S. Stockwell, '01</td>
<td>11</td>
<td>L. B. Crowell, '00</td>
<td>3</td>
</tr>
<tr>
<td>F. B. Dutton, '00</td>
<td>10</td>
<td>F. Gannett, '02</td>
<td>3</td>
</tr>
<tr>
<td>H. M. McMaster, '00</td>
<td>10</td>
<td>C. W. Kellogg, Jr., '02</td>
<td>3</td>
</tr>
<tr>
<td>G. H. Gleason, '03</td>
<td>9</td>
<td>O. H. Perry, Jr., '01</td>
<td>3</td>
</tr>
<tr>
<td>W. W. Garrett, '01</td>
<td>8</td>
<td>E. P. Fleming, '01</td>
<td>2</td>
</tr>
<tr>
<td>D. D. Field, '02</td>
<td>8</td>
<td>R. B. Clark, '01</td>
<td>1</td>
</tr>
<tr>
<td>H. E. Marcus, '01</td>
<td>8</td>
<td>A. L. Magnitzky, '03</td>
<td>1</td>
</tr>
<tr>
<td>S. C. Sears, '09</td>
<td>8</td>
<td>G. B. Manson, '03</td>
<td>1</td>
</tr>
<tr>
<td>K. T. Stow, '02</td>
<td>8</td>
<td>R. D. Morris, '03</td>
<td>1</td>
</tr>
<tr>
<td>L. B. Wilder, '01</td>
<td>8</td>
<td>H. F. Peaslee, '03</td>
<td>1</td>
</tr>
<tr>
<td>J. Driscoll, '02</td>
<td>6</td>
<td>C. A. Sawyer, Jr., '02</td>
<td>1</td>
</tr>
</tbody>
</table>
Captains and Managers of Technology
Track Teams since 1894

<table>
<thead>
<tr>
<th>CAPTAINS</th>
<th>MANAGERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>F. W. Lord, ’94</td>
<td>1894</td>
</tr>
<tr>
<td>J. W. Thomas, ’95</td>
<td>1895</td>
</tr>
<tr>
<td>H. Cummings, Jr., ’96</td>
<td>1896</td>
</tr>
<tr>
<td>R. L. Frost, ’02</td>
<td>1901</td>
</tr>
</tbody>
</table>
# Records

## World

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-Yard Dash</td>
<td>10 sec</td>
<td>1898</td>
</tr>
<tr>
<td>220-Yard Dash</td>
<td>22 1-5 sec</td>
<td>1900</td>
</tr>
<tr>
<td>440-Yard Run</td>
<td>50 1-5 sec</td>
<td>1900</td>
</tr>
<tr>
<td>880-Yard Run</td>
<td>2 min</td>
<td>1898</td>
</tr>
<tr>
<td>One-Mile Run</td>
<td>4 min. 24 3-5 sec</td>
<td>1898</td>
</tr>
<tr>
<td>Two-Mile Run</td>
<td>10 min. 3 4-5 sec</td>
<td>1898</td>
</tr>
<tr>
<td>Two-Mile Bicycle</td>
<td>4 min. 36 4-5 sec</td>
<td>1900</td>
</tr>
<tr>
<td>120-Yard High Hurdle</td>
<td>15 3-5 sec</td>
<td>1895</td>
</tr>
<tr>
<td>220-Yard Low Hurdle</td>
<td>25 4-5 sec</td>
<td>1898</td>
</tr>
<tr>
<td>Running Broad Jump</td>
<td>22 ft. 8 in.</td>
<td>1898</td>
</tr>
</tbody>
</table>

## N.E.I.A.A.

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-Yard Dash</td>
<td>10 sec</td>
<td>1898</td>
</tr>
<tr>
<td>220-Yard Dash</td>
<td>22 1-5 sec</td>
<td>1900</td>
</tr>
<tr>
<td>440-Yard Run</td>
<td>50 1-5 sec</td>
<td>1900</td>
</tr>
<tr>
<td>880-Yard Run</td>
<td>2 min</td>
<td>1898</td>
</tr>
<tr>
<td>One-Mile Run</td>
<td>4 min. 24 3-5 sec</td>
<td>1898</td>
</tr>
<tr>
<td>Two-Mile Run</td>
<td>10 min. 3 4-5 sec</td>
<td>1898</td>
</tr>
<tr>
<td>Two-Mile Bicycle</td>
<td>4 min. 36 4-5 sec</td>
<td>1900</td>
</tr>
<tr>
<td>120-Yard High Hurdle</td>
<td>15 3-5 sec</td>
<td>1895</td>
</tr>
<tr>
<td>220-Yard Low Hurdle</td>
<td>25 4-5 sec</td>
<td>1898</td>
</tr>
<tr>
<td>Running Broad Jump</td>
<td>22 ft. 8 in.</td>
<td>1898</td>
</tr>
</tbody>
</table>

## M.I.T.A.A.

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-Yard Dash</td>
<td>10 sec</td>
<td>1995</td>
</tr>
<tr>
<td>220-Yard Dash</td>
<td>23 sec</td>
<td>1995</td>
</tr>
<tr>
<td>440-Yard Run</td>
<td>51 1-5 sec</td>
<td>1996</td>
</tr>
<tr>
<td>880-Yard Run</td>
<td>2 min</td>
<td>1991</td>
</tr>
<tr>
<td>One-Mile Run</td>
<td>4 min. 37 4-5 sec</td>
<td>1995</td>
</tr>
<tr>
<td>Two-Mile Run</td>
<td>10 min. 44 4-5 sec</td>
<td>1999</td>
</tr>
<tr>
<td>Two-Mile Bicycle</td>
<td>4 min. 49 4-5 sec</td>
<td>1901</td>
</tr>
<tr>
<td>120-Yard High Hurdle</td>
<td>16 3-5 sec</td>
<td>1996</td>
</tr>
<tr>
<td>220-Yard Low Hurdle</td>
<td>25 4-5 sec</td>
<td>1999</td>
</tr>
<tr>
<td>Running Broad Jump</td>
<td>22 ft. 1 1-2 in.</td>
<td>1999</td>
</tr>
</tbody>
</table>

## Notes

- **J. OWEN, Jr.**
  - Washington, 1890
- **B. J. WEFERS**
  - Berkeley Oval, 1897
- **W. M. LONG**
  - Gutenberg Track, 1900
- **C. H. KILPATRICK**
  - New York, 1895
- **T. P. CONNEFF**
  - Travers Island, 1895
- **W. G. GEORGE**
  - England, 1884
- **J. G. HEIL**
  - Denver, 1897
- **A. C. KRAENZLEIN**
  - Chicago, 1898
- **A. C. KRAENZLEIN**
  - Berkeley Oval, 1898
- **A. C. KRAENZLEIN**
  - New York, 1899
- **A. L. WRIGHT**
  - Brown, 1898
- **O. N. BEAN**
  - Brown, 1898
- **R. MURRAY**
  - Technology, 1900
- **S. CHASE**
  - Dartmouth, 1895
- **G. P. BURCH**
  - Technology, 1898
- **H. H. CLOUDMAN**
  - Bowdoin, 1900
- **R. W. CARR**
  - Bowdoin, 1900
Running High Jump
5 ft. 9 3/4 in.
I. K. Baxter
Trinity, 1896

C. D. Heywood, ’93

Putting Shot (16 lbs.)
38 ft. 10 1/2 in.
J. G. Melendy
Brown, 1899

H. T. Winchester, ’03

Throwing Hammer (16 lbs.)
107 ft. 10 1/2 in.
F. C. Ingalls
Trinity, 1899


Discus Throw
108 ft. 8 in.
A. W. Grover
Maine, 1900

H. T. Winchester, ’03

* Straight-away track. Long also holds world’s record for circular track — 47 4-5 sec. made at Travers Island, September 29, 1900

Special Events of the M. I. T. A. A.

<table>
<thead>
<tr>
<th>Event</th>
<th>Winners</th>
<th>Time, Height, or Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potato Race</td>
<td>J. A. Rockwell, Jr., ’96</td>
<td>50 1-5 sec.</td>
</tr>
<tr>
<td>Cross Country Run (5 mi.)</td>
<td>H. A. B. Campbell, ’99</td>
<td>27 min. 58 sec.</td>
</tr>
<tr>
<td>35-Yard Low Hurdle</td>
<td>J. W. Hink, ’03</td>
<td>4 3-5 sec.</td>
</tr>
<tr>
<td>Standing Broad Jump</td>
<td>L. Burnett, ’96</td>
<td>10 ft. 1 1-2 in.</td>
</tr>
<tr>
<td>Standing High Jump</td>
<td>F. R. Young, ’86</td>
<td>4 ft. 10 in.</td>
</tr>
<tr>
<td>Standing Broad Jumps (3)</td>
<td>E. A. Boeske, ’95</td>
<td>32 ft. 8 1-8 in.</td>
</tr>
<tr>
<td>Fence Vault</td>
<td>A. H. Greene, ’96</td>
<td>7 ft. 2 1-4 in.</td>
</tr>
<tr>
<td>Running High Kick</td>
<td>C. D. Heywood, ’93</td>
<td>9 ft. 3 1-2 in.</td>
</tr>
<tr>
<td>Relay Race†</td>
<td>M. W. Hall, ’00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H. M. McMaster, ’00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R. P. Priest, ’00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>W. W. Garrett, ’01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>F. D. Avery, ’02</td>
<td>3 min. 14 2-5 sec.</td>
</tr>
<tr>
<td>Relay Race‡</td>
<td>K. C. Grant, ’02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N. E. Borden, ’02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R. V. Brown, ’02</td>
<td>15 4-5 sec.</td>
</tr>
</tbody>
</table>

* World’s record
† 1500 yards
‡ 140 yards
Football Association.

The Technology Football Association was organized March 6, 1895. Its object is to further all interests pertaining to football at the Institute and to have supervision of the same. Beside having control of the Institute Football Team, the Association has full charge of the annual Sophomore-Freshman football game, cane rush, and cane spree.

OFFICERS

President, Henry Keene Hooker, '02
Vice-President, Paul Revere Parker, '03
Secretary-Treasurer, John Tyrrell Cheney, '03
Captain of Team, Henry Keene Hooker, '02
Manager, Walter Lorrain Cook, '02
Assistant Manager, John Mariott Grice, '03

Executive Committee

Charles Emmet McCarthy, '02
Silas Clarence Merrick, '03
Walter F. Dillon, '04

Representative to Advisory Council

Robert Anderson Pope, '02
Captains and Managers of Technology
Football Teams since 1885

<table>
<thead>
<tr>
<th>CAPTAINS</th>
<th>MANAGERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. R. Fletcher, '87</td>
<td>Solomon Sturgis, '87</td>
</tr>
<tr>
<td>M. W. Cooley, '87</td>
<td>W. L. Dearborn, '88</td>
</tr>
<tr>
<td>E. W. Herrick, '88</td>
<td>R. Devens, '88</td>
</tr>
<tr>
<td>W. M. Duane, '89</td>
<td>W. F. Merrill, '89</td>
</tr>
<tr>
<td>O. Gerner, '91</td>
<td>H. M. Waite, '90</td>
</tr>
<tr>
<td>O. Gerner, '91</td>
<td>H. N. Williams, '93</td>
</tr>
<tr>
<td>E. D. Clarke, '94</td>
<td>H. N. Williams, '93</td>
</tr>
<tr>
<td>J. W. Thomas, '95</td>
<td>J. S. Pechin, '94</td>
</tr>
<tr>
<td>J. W. Thomas, '95</td>
<td>C. F. Tillinghast, '95</td>
</tr>
<tr>
<td>J. H. Manahan, '96</td>
<td>E. S. Mansfield, '96</td>
</tr>
<tr>
<td>G. F. Ulmer, '98</td>
<td>G. A. Hutchinson, '98</td>
</tr>
<tr>
<td>B. E. Morse, '99</td>
<td>A. R. Holliday, '99</td>
</tr>
<tr>
<td>H. D. Jouett, '00</td>
<td>W. R. Collier, '00</td>
</tr>
<tr>
<td>H. W. Maxson, '01</td>
<td>P. G. L. Hilken, '01</td>
</tr>
</tbody>
</table>
Football Team
M.E.T.

1900-1901

COOK WILSON, G. D. POPE FRENCH HOOKER BROWN, TRAINER
ROBERTS HUNTER WILSON, L. G. NAGLE
DILLON HAMILTON, T. H. HILKEN MAXSON CROCHIUS HECKMAN METCALFE
HAMILTON, R. S. CROCKER BABY SMITH WOOD
Technology Football Team

OFFICERS

Captain
Harry Westcote Maxson, '01

Manager
Paul Gerhard L. Hilken, '01

Assistant Manager
Walter Lorrain Cook, '02

Coach
F. J. Crollius, Dartmouth, '99

TEAM

C. F. Hunter, '04; J. B. Laws, '01; F. A. Nagle, '02 . . . . Centres
T. M. Hamilton, '04; R. S. Hamilton, '04; G. B. Wilson, '03 . Guards
A. O. Roberts, '04; G. H. French, '02; R. A. Pope, '02 . . Tackles
C. N. Chubb, '01; H. K. Hooker, '02; F. W. Crocker, '04 . . Ends
H. W. Maxson, '01 (Capt.); H. K. Hooker, '02; P. M. Smith, '04 . Qb-Backs
W. F. Dillon, '04; R. A. Pope, '02; L. G. Wilson, '04; G. B.
Wood, '03; D. B. Bary, '04 . . . . . . . . . . . . . . Half Backs
J. G. Metcalfe, '04; J. F. Heckman, '03 . . . . . . . . Full Backs
## Schedule of Games

**Season of 1900**

<table>
<thead>
<tr>
<th>Date</th>
<th>Opponents</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 5</td>
<td>Technology vs. Exeter, at Exeter</td>
<td>6-6</td>
</tr>
<tr>
<td>October 10</td>
<td>Technology vs. Brown University, at Providence</td>
<td>0-22</td>
</tr>
<tr>
<td>October 13</td>
<td>Technology vs. New Hampshire State College, Durham</td>
<td>6-0</td>
</tr>
<tr>
<td>October 20</td>
<td>Technology vs. Stevens Institute of Technology, at Boston</td>
<td>35-0</td>
</tr>
<tr>
<td>October 27</td>
<td>Technology vs. Tufts College, at Tufts</td>
<td>0-0</td>
</tr>
<tr>
<td>October 31</td>
<td>Technology vs. Worcester Polytechnic Institute, at Boston</td>
<td>17-2</td>
</tr>
<tr>
<td>November 3</td>
<td>Technology vs. Amherst College, at Amherst</td>
<td>0-18</td>
</tr>
<tr>
<td>November 17</td>
<td>Technology vs. Holy Cross College, at Worcester</td>
<td>0-16</td>
</tr>
<tr>
<td>November 21</td>
<td>Technology vs. Burdett College, at Boston</td>
<td>17-0</td>
</tr>
</tbody>
</table>

Games won, 4.  
Games lost, 3.  
Games tied, 3.

Total points scored by Technology, 81
Total points scored by opponents, 64
Percentage of games won, 55.55

The following men are entitled to wear the emblem, "T," having participated in two-thirds of scheduled games:

- F. W. Crocker, '04
- C. N. Chubb, '01
- W. F. Dillon, '04
- G. H. French, '02
- R. S. Hamilton, '04
- T. M. Hamilton, '04
- J. F. Heckman, '03
- H. K. Hooker, '02
- C. F. Hunter, '04
- H. W. Maxson, '01
- J. G. Metcalfe, '04
- A. O. Roberts, '04
- L. G. Wilson, '04
SOUTH END GROUNDS, November 15, 1901

CLASS of 1903 vs. CLASS of 1904

Light Weight Class
H. H. Gould, '04, defeated W. S. Craven, '03

Middle Weight Class
O. I. Godfrey, '04, defeated R. H. Rogers, '03

Heavy Weight Class
Draw between C. L. Homer, '04, and L. H. Underwood, '03

Spree won by 1904

CANE SPREE

CLASS of 1903 vs. CLASS of 1904

Won by Class of 1903

1903, 19 hands: 1904, 11 hands
OFFICERS

Captain
Van Irving Nettleton

Manager
John Tyrrell Cheney

TEAM

Curtis Rockwell Gray  
John William Crosby  
Frank Miller Babcock  
James Filton Doran  
George Holland Garcelon  
Frederick Ickes Merrick  
Stanley Alfred Foster  
Mellen Chamberlain Mason Hatch  
Van Irving Nettleton  
Paul Revere Parker  
Lucius Blaine McKelvey  

Left End
Left Tackle
Left Guard
Centre
Right Guard
Right Tackle
Right End
Quarter-Back
Left Half Back
Right Half Back
Full Back

Substitutes

Robert Lewis Kruse  
Walter Frederick Roper  
John Tyrrell Cheney

Gilbert Howe Gleason  
William Remsen Lewis  
Laurence Hargreave Lee

SCHEDULE OF GAMES

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Opponent</th>
<th>Result</th>
<th>Scores</th>
</tr>
</thead>
<tbody>
<tr>
<td>October</td>
<td>19</td>
<td>Technology 1903 vs.</td>
<td>Cambridge Latin School</td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>1</td>
<td>Technology 1903 vs.</td>
<td>Mechanic Arts High School</td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>2</td>
<td>Technology 1903 vs.</td>
<td>Medford High School</td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>7</td>
<td>Technology 1903 vs.</td>
<td>Haverhill High School</td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>10</td>
<td>Technology 1903 vs.</td>
<td>Lowell Y. M. C. I.</td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>15</td>
<td>Technology 1903 vs.</td>
<td>Technology 1904</td>
<td></td>
</tr>
</tbody>
</table>

Percentage of games won, 66.66

155
1904 Football Team
M. X. T.

1900-1901

BROAD MORTON DRAPER BROWN, TRAINER SULLIVAN CARD CURTIS
BEE WHITE DOYLE EMERSON SANDBORN ANDERSON MILLER BARY
KENDALL BRADLEY O'LEARY DOTEN
OFFICERS

Captain
GEORGE WARREN SANBORN

Manager
CHARLES EDWARD BROAD

TEAM

<table>
<thead>
<tr>
<th>Position</th>
<th>Player Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left End</td>
<td>George Alden Curtis</td>
</tr>
<tr>
<td>Left Tackle</td>
<td>Richard Thomas Sullivan</td>
</tr>
<tr>
<td>Left Guard</td>
<td>Frederick Sanford Anderson</td>
</tr>
<tr>
<td>Centre</td>
<td>Merton Leslie Emerson</td>
</tr>
<tr>
<td>Right Guard</td>
<td>Charles Edward Broad</td>
</tr>
<tr>
<td>Right Tackle</td>
<td>George Warren Sanborn</td>
</tr>
<tr>
<td>Right End</td>
<td>Stephen Lawrence Bradley</td>
</tr>
<tr>
<td>Quarter Back</td>
<td>John Ford Card</td>
</tr>
<tr>
<td>Left Half Back</td>
<td>Andrew John O'Leary</td>
</tr>
<tr>
<td>Right Half Back</td>
<td>Jules Edward White</td>
</tr>
<tr>
<td>Full Back</td>
<td>Herbert Kinsley Draper</td>
</tr>
</tbody>
</table>

Substitutes

HARRY STILLMAN KENDALL
ANDREW OVERTON MILLER
HUGH CHADWICK MOORE
WILLIAM LESLIE DOTEN
EDWARD LEA DOYLE
DIMITRI BENJAMIN BARY

SCHEDULE OF GAMES

<table>
<thead>
<tr>
<th>Date</th>
<th>Opponent</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 2</td>
<td>Technology 1904 vs. Thayer Academy</td>
<td>5–0</td>
</tr>
<tr>
<td>November 10</td>
<td>Technology 1904 vs. South Groveland</td>
<td>0–0</td>
</tr>
<tr>
<td>November 15</td>
<td>Technology 1904 vs. Technology 1903</td>
<td>0–5</td>
</tr>
</tbody>
</table>

Percentage of games won, 50
1902 Baseball Team

1899-1900

AVERY  SAWTER  GARDNER
FRANKLIN  POND  McCarthy
PATCH  CHAPMAN  GANNETT
1902
BASE BALL
TEAM

OFFICERS
Captain, Harry Bradford Pond
Manager, Farley Gannett

TEAM
Harry Bradford Pond
Farley Gannett
Charles Emmet McCarthy
Charles Adrian Sawyer, Jr.
Claude Eldred Patch
Harlen Monroe Chapman
Harold Coburn Fish
Ralph Stowell Franklin
Stephen A. Gardner, Jr.

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

Substitutes
Thomas Witherbee Foote
Francis Deane Avery

SCHEDULE OF GAMES
April 5 Technology 1902 vs. Cambridge High and Latin .... 10-8
April 21 Technology 1902 vs. Dean Academy .... 4-1
April 14 Technology 1902 vs. Groton School .... 9-7
May 2 Technology 1902 vs. Harvard 1903 .... 4-15
May 10 Technology 1902 vs. Brown 1903 .... 9-10
May 18 Technology 1902 vs. Technology 1903 .... 5-6

Percentage of games won, 50

159
**OFFICERS**

**Captain**

Van Irving Nettleton

**Manager**

John Tyrrell Cheney

**TEAM**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitcher</td>
<td>Henry Thornton Winchester</td>
</tr>
<tr>
<td>Catcher</td>
<td>Arthur Hooper Langley</td>
</tr>
<tr>
<td>First Base</td>
<td>Van Irving Nettleton</td>
</tr>
<tr>
<td>Second Base</td>
<td>John Tyrrell Cheney</td>
</tr>
<tr>
<td>Short Stop</td>
<td>Curtis Rockwell Gray</td>
</tr>
<tr>
<td>Third Base</td>
<td>William Fred Helmick</td>
</tr>
<tr>
<td>Left Field</td>
<td>Stanley Alfred Foster</td>
</tr>
<tr>
<td>Centre Field</td>
<td>Ralph Holt Howes</td>
</tr>
<tr>
<td>Right Field</td>
<td>Earl Richard Pembroke</td>
</tr>
</tbody>
</table>

**Substitutes**

Joseph Archibald Mears  
John Marriott Grice  
Arthur Benjamin Allen

**SCHEDULE OF GAMES**

<table>
<thead>
<tr>
<th>Date</th>
<th>Opponent 1</th>
<th>Opponent 2</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 12</td>
<td>Technology 1903</td>
<td>Hopkinson School</td>
<td>21–20</td>
</tr>
<tr>
<td>April 18</td>
<td>Technology 1903</td>
<td>St. Marks</td>
<td>2–23</td>
</tr>
<tr>
<td>April 24</td>
<td>Technology 1903</td>
<td>Wakefield High School</td>
<td>1–16</td>
</tr>
<tr>
<td>April 27</td>
<td>Technology 1903</td>
<td>Somerville High School</td>
<td>4–5</td>
</tr>
<tr>
<td>May 3</td>
<td>Technology 1903</td>
<td>Harvard 1903</td>
<td>12–30</td>
</tr>
<tr>
<td>May 5</td>
<td>Technology 1903</td>
<td>Adams Academy</td>
<td>15–17</td>
</tr>
<tr>
<td>May 9</td>
<td>Technology 1903</td>
<td>Dean Academy</td>
<td>3–15</td>
</tr>
<tr>
<td>May 15</td>
<td>Technology 1903</td>
<td>Tufts 1903</td>
<td>19–14</td>
</tr>
<tr>
<td>May 18</td>
<td>Technology 1903</td>
<td>Technology 1902</td>
<td>6–5</td>
</tr>
</tbody>
</table>

Percentage of games won, 33.33
THE New England Intercollegiate Lawn Tennis Association was organized February 24, 1900, by representatives from Amherst, Bates, Bowdoin, Brown, Dartmouth, Tufts, Technology, Wesleyan, and the University of Vermont. The Association was formed for the purpose of promoting the interests of Lawn Tennis among the Colleges and holds an annual tournament in May, each college being represented by two single teams and one double team.

OFFICERS

President, E. Gordon Thatcher, Technology
Vice-President, A. L. Dana, Bowdoin
Secretary-Treasurer, E. Tudor Gross, Brown

MEMBERS

Amherst
Bates
Bowdoin
Brown

Colby
Dartmouth
Technology
Trinity

Tufts
Vermont
Wesleyan
Williams

ANNUAL TOURNAMENT

Longwood, May 14–19, 1900

Singles, Won by E. Tudor Gross, Brown

Doubles, Won by Summerbell and Willis, Bates
THE Technology Tennis Association was organized in the fall of 1895 and has grown rapidly since its organization. In the spring of 1896 courts were laid out on the lot next to the Architectural building. Upon the erection of the Pierce building, however, courts were laid out on the lot between the Rogers and Walker buildings. The Association holds two tournaments each year—a members' tournament in the spring and an open tournament in the fall.

OFFICERS

President, E. Gordon Thatcher, '01
Vice-President, Lammot du Pont, '01
Secretary-Treasurer, Edward H. Cutter, '02

Board of Directors

N. Loring Danforth, '01 Frances Bradley, '02 Joseph R. Jones, '03

C. L. Bates, '03 T. Henderson, '04
D. M. Belcher, '02 J. R. Jones, '03
G. B. Bouscareen, '04 E. F. Lawrence, '01
N. E. Borden, '02 A. S. Leavitt, '03
F. Bradley, '02 A. B. McDaniel, '04
J. R. Brownell, '01 F. O. Miller, '02
J. T. Cheney, '03 R. H. Rogers, '03
E. H. Cutter, '02 C. A. Sawyer, Jr., '02
N. L. Danforth, '01 H. H. Saylor, '02
A. G. Drew, '04 E. G. Thatcher, '01
L. du Pont, '01 L. H. Underwood, '03
P. D. A. Hawkins, '04 W. W. Whipple, '01

MEMBERS

Representatives at New England Intercollegiate Tournament

F. Bradley, '02, and E. G. Thatcher, '01

Open Fall Tournament

F. Bradley defeated E. G. Thatcher, 6–4, 6–4, 6–2

163
The Hare and Hounds Club was organized November 14, 1896. The main object of the Club is the promotion of Cross-Country running as a means of healthful exercise. The Club holds a number of runs yearly of an average length of six and one-half miles. In May of each year the Club holds its annual Cross-Country Run over a course of eight miles. The Advisory Council in March, 1900, granted the Club the emblem T. H. H. to be won by members who finish three-fourths of the year’s runs within a specified time limit, also to the winners in the championship run.

**OFFICERS**
- **Manager**: Frederick Huston Hunter, '02
- **Captain**: Walter Purton Ross Pember, '02

**MEMBERS**
- Horace Singer Baker, '03
- Frederic William Crocker, '04
- Clinton Merrill Dearden, '01
- Alden Glover Drew, '04
- Charles Henry Drew, '04
- Herbert Willard Goddard, '04
- Harold Howard Gould, '04
- Carleton Francis Green, '03
- Arthur Gunderson Hayden, '01
- Charles Rogerson Haynes, '04
- Amasa Maynard Holcomb, '03
- Frederick Huston Hunter, '02
- Kenneth DuBois Jewett, '03
- Jesse Strassburger Joseph, '03
- Gyula Bennett Manson, '03
- John Reginald Marvin, '02
- Philip Coombs Pearson, '02
- Hiram Fred Peaslee, '03
- Walter Purton Ross Pember, '02
- Roland Ball Pendergast, '02
- William Copeland Pickersgill, '02
- Arthur Peabody Porter, '04
- Gordon MacIntyre Proudfoot, '04
- Harrie Bridgeman Pulsifer, '03
- Thomas Frederick Reardon, '01
- George Sibbett, '03
- Harry Allard Stiles, '03
- William High Williston, '02

**T. H. H. Annual Cross Country Run**

<table>
<thead>
<tr>
<th>Place</th>
<th>Winners</th>
<th>Handicap</th>
<th>Actual Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>H. B. Pulsifer, '03</td>
<td>8 minutes</td>
<td>59 min. 22 sec.</td>
</tr>
<tr>
<td>Second</td>
<td>H. A. Stiles, '03</td>
<td>8 minutes</td>
<td>59 min. 33 sec.</td>
</tr>
<tr>
<td>Third</td>
<td>W. H. Williston, '02</td>
<td>5 minutes</td>
<td>56 min. 59 sec.</td>
</tr>
</tbody>
</table>

Time prize won by O. S. Stockman, '01, scratch in 53 min. 34 sec.

164
THE M. I. T. Hockey Club was organized in the winter of 1899 to introduce the Canadian game of Hockey in the Institute. The Club controls the Technology Hockey Team.

OFFICERS

President, Roger Ames Burr, '03  Secretary, John Tyrrell Cheney, '03
Treasurer, Arthur Clarence Walworth, '00
Captain, Francis Fay Hill Smith, '02  Manager, Roger Ames Burr, '03

TEAM

Francis Fay Hill Smith, '02  Left Forward
Frank Albert Hill, '03  Left Forward
Arthur Clarence Walworth, '00  Right Forward
Arthur K. Trenholme, '01  Right Forward
Austin Tabor Hyde, '01  Cover Point
Charles Edward Baldwin, '00  Point
Herbert Holmes Howe, '00  Goal

SCHEDULE OF GAMES

January  8  Technology vs. Harvard at Soldiers Field  3–9
January 15  Technology vs. Brown at Providence       2–6
February  7  Technology vs. Harvard at Soldiers Field 4–8
February 14  Technology vs. Dorchester A. A. at Franklin Field 5–1
February 21  Technology vs. Andover at Andover       3–1

Percentage of games won, 40

165
Technology Basketball Team
M. T. T.

1900-1901

DILLON COX  FIREY
PEASLEY  PELL
LIBBEY  BABY
OFFICERS

Captain
FRANK GARDNER COX, '03

Manager
HIRAM FRED PEASLEE, '03

TEAM

GEORGE EASTMAN LIBBEY, '03 . . . . . . . . . Right Forward
WALTER F. DILLON, '04 . . . . . . . . . . . . . . . . Left Forward
WALTER SPENCER FITCH, '02 . . . . . . . . . Centre
FRANK GARDNER COX, '03 . . . . . . . . . . . . . Right Guard
CHARLES FREDERICK HUNTER, '04 . . . . . . . . . Left Guard

Substitutes

HARRY STILLMAN KENDALL, '04
JOHN FRANCIS PELL, '03

SCHEDULE OF GAMES

<table>
<thead>
<tr>
<th>Date</th>
<th>Opponent</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 21</td>
<td>Technology vs. Dean Academy</td>
<td>22-1</td>
</tr>
<tr>
<td>January 30</td>
<td>Technology vs. Holy Cross</td>
<td>6-16</td>
</tr>
<tr>
<td>February 6</td>
<td>Technology vs. Haverhill Y. M. C. A.</td>
<td>17-14</td>
</tr>
<tr>
<td>February 9</td>
<td>Technology vs. Co. E, 6th Regt. M. V. M.</td>
<td>1-22</td>
</tr>
<tr>
<td>February 16</td>
<td>Technology vs. Newton Y. M. C. A.</td>
<td>5-6</td>
</tr>
<tr>
<td>February 19</td>
<td>Technology vs. Harvard</td>
<td>15-55</td>
</tr>
<tr>
<td>February 21</td>
<td>Technology vs. Lowell Y. M. C. A.</td>
<td>14-28</td>
</tr>
<tr>
<td>February 23</td>
<td>Technology vs. Boston Y. M. C. A.</td>
<td>9-7</td>
</tr>
<tr>
<td>February 28</td>
<td>Technology vs. Tufts</td>
<td>13-11</td>
</tr>
<tr>
<td>March 7</td>
<td>Technology vs. Harvard</td>
<td></td>
</tr>
<tr>
<td>March 16</td>
<td>Technology vs. Lawrence Y. M. C. A.</td>
<td></td>
</tr>
<tr>
<td>March 30</td>
<td>Technology vs. Brown</td>
<td></td>
</tr>
</tbody>
</table>
Years Ago

I
EBSTER WELLS was once the Bursar,
Business only, then, was slow,
Ne'er was Bursar's time made terser,—

Years ago.

II
Wells was also once a teacher
In Descrip. — vocation low!
But he lived down such a feature —

Years ago.

III
Drill at Tech was necessary
Every year: — they tell us so, —
Students found it pleasant — very!

Years ago.

IV
Tommy Pope left work collegiate
And resigned his job; — but lo!
Back he came, almost immejate — "

Years ago.

V
Richards once was Secretary,
And he sent — (the records show) —
P. E. Y. A. cards to Harry!

Years ago.
Professional

Societies
ON October 15, 1886, a few members of the architectural department formed a sketch club of which the present Architectural Society is the outgrowth. The Architectural Review was first started by the society under the name of the Technology Review.

Each member is required to make a certain number of tracings of architectural details, from which blue prints are made, thus enabling the members to obtain a valuable collection for future use.

Smoke talks and Bohemian dinners, which are held throughout the college year, enable the members of the society to meet the professors of the course and also prominent architects of the city.

OFFICERS

President, Ellis Fuller Lawrence
Vice-President, Frank Nelson Emerson
Secretary, Francis Willard Puckey
Treasurer, John Clyde Fruit

Executive Committee

William Truman Aldrich
Hugh Templeton Blanchard
Frank Arnold Colby

HONORARY MEMBERS

Prof. F. W. Chandler
Prof. D. Despradelle
Prof. E. B. Homer
Prof. W. H. Lawrence
Prof. J. O. Sumner
Mr. C. L. Adams
Mr. W. F. Brown
Mr. T. H. Bartlett
Mr. H. W. Gardner
Mr. D. A. Gregg
Mr. W. H. Kilham
Mr. Guy Lowell
Mr. S. W. Mead
Mr. Ross Turner
Mr. C. H. Walker
THE ARCHITECTURAL SOCIETY

ACTIVE MEMBERS

I. R. Adams
W. T. Aldrich
A. W. Allyn
W. C. Appleton
J. McF. Baker
Wm. Barber
H. E. Bartlett
C. T. Bilyea
A. H. Birks
R. Van B. Blaisdell
H. T. Blanchard
C. H. Boardman, Jr.
F. H. Bond, Jr.
L. S. Butler
A. E. Campau
F. W. Carpenter
A. R. Childs
B. S. Clark
F. A. Colby
W. B. Crowell
F. N. Emerson
G. B. Ford
J. C. Fruit
M. Goldenberg
W. R. Greeley
J. M. Hamilton
E. Henne
L. R. Henrich
W. G. Holford
G. T. Hyde
R. F. Jackson
A. D. Jenkins

A. L. Klieves
H. G. Koch
A. E. Lang
L. Luquer
E. F. Lawrence
J. L. Little, Jr.
A. B. McDaniel
E. B. McNaughton
E. W. Mason
H. W. Maxson
F. I. Merrick
A. P. Merrill
L. F. Miller
A. R. Nichols
F. Nickerson
W. P. R. Pember
R. A. Pope
P. L. Price
F. W. Puckey
F. L. W. Richardson
H. Sawyer
H. H. Saylor
W. J. Sayward
C. H. Shivers
S. W. St. Clair
O. S. Swenson
A. K. Trenholme
L. E. Vaughn
F. R. Walker
P. R. Whitney
H. A. Whiton
C. A. Whittemore

A. C. Wood
THE Civil Engineering Society of the Massachusetts Institute of Technology was founded in February, 1889, with a membership consisting of the Professors of Civil Engineering, and all regular members of the three upper classes in the Mining, Civil and Sanitary departments. Its object, as stated in the Constitution, "is to promote interest in Civil Engineering subjects."

The society holds meetings every two or three weeks at which speeches by Professors and prominent business men form an important part.

OFFICERS

President, F. H. Bass
Secretary, F. Gannett

Vice-President, R. S. Loring
Treasurer, H. H. Fletcher

EXECUTIVE COMMITTEE

L. S. Florsheim, '01
H. E. Hildreth, '01
F. H. Bass, '01

L. C. Hammond, '02
F. Gannett, '02

PROGRAMME COMMITTEE

Prof. Geo. F. Swain
Prof. A. E. Burton
H. P. McDonald, Jr., '01
R. H. Stearns, '01
L. P. Wood, '01

Prof. Dwight Porter
Prof. C. Frank Allen
P. H. Worcester, '02
G. T. Seabury, '02

HONORARY MEMBERS

Ex-Pres. Henry S. Pritchett
Prof. George F. Swain
Prof. Dwight Porter
Asst. Prof. Arthur G. Robbins

Ex-Pres. James M. Crafts
Prof. A. E. Burton
Prof. C. Frank Allen

Mr. F. P. McKibben
Mr. C. B. Breed
Mr. F. H. Watts
Mr. A. B. White
Mr. C. W. Perley

Mr. K. S. Sweet
Mr. C. M. Spofford
Mr. G. L. Hosmer
Mr. Fosdick
Mr. Russell
CIVIL ENGINEERING SOCIETY

ACTIVE MEMBERS

Class of 1901

F. H. Bass
L. H. Bigelow
P. Boynton
J. P. Briggs
A. A. Casani
C. M. Culp
F. B. Driscoll
F. J. Dulude
L. du Pont
L. S. Florsheim
E. C. Harper

A. G. Hayden
S. Hazlewood
H. E. Hildreth
J. F. Lange
R. S. Loring
W. I. Martin
H. McBurney
H. P. McDonald, Jr.
J. R. Morse
Ray Murray
L. A. Nims
L. P. Wood

A. D. Nutter
G. Th. Paraschos
H. McNiel
A. W. Peters
E. J. Proulx
J. T. Scully, Jr.
R. H. Stearns
A. J. Taylor
W. C. Taylor
R. Whitman
W. G. Wilkes

Class of 1902

F. D. Allen, Jr.
F. D. Avery
C. S. Baker
Ross Bates
C. J. Bonnemort
D. M. Belcher
E. LeR. Brainerd
A. W. Crowell
W. H. Farmer
H. H. Fletcher
F. Gannett
F. G. Field
F. N. Fowler, Jr.

E. W. Hadcock
L. C. Hammond
Paul Hansen
A. E. Hansen
H. F. Hills
C. F. Knights
A. E. Lombard
A. S. More
A. S. Nelson
L. Pearse
W. Putnam
C. R. Place
H. B. Pond

J. H. Redfield
G. T. Seabury
J. W. Smith, Jr.
J. L. Taylor, Jr.
J. B. Turner
J. W. Wadleigh
C. H. Walker
R. M. Whittet
W. J. Winslow
S. L. Wonson
P. H. Worcester
C. L. Shed
K. C. Grant

Class of 1903

E. F. Allbright
S. K. Baker
F. G. Babcock
W. W. Burnham
H. Baetjer
H. S. Baker
E. A. Comer
R. A. Cook
H. N. Cross

L. E. Crouch
G. H. Clapp
W. R. Davis
M. P. Drake
J. W. Howard
L. L. Hunter
E. O. Hiller
F. Johnson
W. A. Harrigan

W. R. Lewis
B. H. Miller
C. P. Mulherin
W. V. McMemmen
H. S. Morse
V. I. Nettleton
C. P. Nebecker
L. H. Underwood
R. R. Newman

174
THE Electrical Engineering Society was reorganized in 1893, having been first started in '89 as the Electric Club. Active membership is open to all Juniors and Seniors of Courses VI and VIII. The two lower classes being eligible to associate membership. Honorary membership is open to all persons interested in the society. The object of the society is to increase and maintain the interests of its members in scientific subjects. At the regular meetings the members are usually addressed by Professors or by prominent engineers. Of late years the society has made several trips to different power plants, etc., which come within the scope of electrical engineers.

**OFFICERS**

*President, F. L. Cady*  
*Vice-President, W. I. Bickford*  
*Secretary and Treasurer, M. B. Foster*

**HONORARY MEMBERS**

<table>
<thead>
<tr>
<th>Pres. H. S. Pritchett</th>
<th>Mr. L. Derr</th>
<th>Mr. M. DeK. Thompson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. C. R. Cross</td>
<td>Mr. G. V. Wendell</td>
<td>Mr. C. L. Norton</td>
</tr>
<tr>
<td>Prof. W. L. Puffer</td>
<td>Mr. R. V. Laurence</td>
<td>Mr. N. E. Seavy</td>
</tr>
<tr>
<td>Prof. H. E. Clifford</td>
<td>Prof. F. A. Laws</td>
<td>Mr. H. W. Smith</td>
</tr>
<tr>
<td>Prof. H. M. Goodwin</td>
<td></td>
<td>Mr. C. H. Hapgood</td>
</tr>
<tr>
<td>Mr. W. S. Smith</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MEMBERS**

<table>
<thead>
<tr>
<th>H. V. Allen</th>
<th>M. B. Foster</th>
<th>F. P. Montgomery</th>
</tr>
</thead>
<tbody>
<tr>
<td>W. I. Bickford</td>
<td>H. G. Folsom</td>
<td>E. L. Ovington</td>
</tr>
<tr>
<td>W. G. Blauvelt</td>
<td>M. A. Fogy</td>
<td>C. H. Porter</td>
</tr>
<tr>
<td>R. H. Bolster</td>
<td>E. Gorfinkle</td>
<td>R. B. Pendergast</td>
</tr>
<tr>
<td>F. R. C. Boyd</td>
<td>J. C. Howe</td>
<td>F. C. Randall</td>
</tr>
<tr>
<td>F. L. Cady</td>
<td>W. G. Kelley</td>
<td>J. W. Reynolds</td>
</tr>
<tr>
<td>J. P. Catlin</td>
<td>H. N. Kennedy</td>
<td>G. Rogers</td>
</tr>
<tr>
<td>G. H. Clark</td>
<td>K. H. Knox</td>
<td>R. E. Thurston</td>
</tr>
<tr>
<td>G. W. Carter</td>
<td>E. E. Kimball</td>
<td>G. W. Sanborn</td>
</tr>
<tr>
<td>C. M. Dearden</td>
<td>B. Miller</td>
<td>W. I. Sturtevant</td>
</tr>
<tr>
<td>K. W. Endres</td>
<td>G. LeR. Mitchell</td>
<td>C. P. Tolman</td>
</tr>
<tr>
<td>W. E. Farnham</td>
<td>R. B. Morton</td>
<td>R. White, Jr.</td>
</tr>
<tr>
<td>C. K. Flint</td>
<td></td>
<td>J. C. Woodsome</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>175</td>
<td></td>
</tr>
</tbody>
</table>
THE Mining Engineering Society was organized November 30, 1897, by members of Course III. The object of the society is to enliven the interest of its members in the study of Mining Engineering and depending subjects. Every three weeks meetings are held, at which papers are read by Professors or students, discussion following.

OFFICERS

Honorary President, Prof. Robert H. Richards.
President, Frank D. Rash
Vice Pres. and Treas. Fred H. Sexton
Secretary, Paul E. Chalifoux

Executive Committee

Frank D. Rash
Wm. W. Garrett
Fred H. Sexton
Charles A. Sawyer, Jr.
Paul E. Chalifoux

HONORARY MEMBERS

Prof. Robert H. Richards
Prof. William H. Niles
Prof. Alfred E. Burton
Prof. Heinrich O. Hofman
Prof. Henry P. Talbot

Prof. Richard W. Lodge
Prof. Geo. H. Barton
Prof. Arthur G. Robbins
Prof. Wm. O. Crosby
Mr. F. Jewett Moore

176
# Mining Engineering Society

## Active Members

### Class of 1901

- Albert H. B. Arnold
- Francis K. Baxter, Jr.
- Frank J. Eager
- William W. Garrett
- Jules H. Hirt
- Henry C. Marcus
- Jay H. Sabin
- Charles I. Auer
- John Boyle, Jr.
- Edward P. Fleming
- Alberto P. Gonzalez
- Emilio Madero
- Guy C. Peterson
- Orlando S. Stockman
- Lowell B. Wilder
- Eric W. Bailey
- Walter P. Davis
- Frederic W. Freeman
- Dennis F. Haley
- Salvador Madero
- Frank D. Rash
- Wm. W. Welch

### Class of 1902

- Charles D. Brewer
- Paul E. Chalifoux
- Walter L. Cook
- Charles B. Hollis
- Mortimer L. Nagle
- Arthur H. Sawyer
- Geo. Bright, Jr.
- Albert T. Church
- Milton C. Dunham
- Eliot W. Knight
- Frank D. Rathburn
- Charles H. Sisson
- Charles S. Thomas
- J. B. Simons
- Louis S. Cates
- Waldo H. Comins
- Thomas W. Foote
- Benjamin E. McKechnie
- Charles A. Sawyer, Jr.
- Charles A. Smith

### Class of 1903

- F. G. Babcock
- Otis J. Godfrey
- Harry R. Low
- Lucius B. McKelvey
- Frank A. Sherman
- Mayes Cooper
- Carleton F. Green
- Gyula B. Manson
- Hiram F. Peaslee
- B. A. Shaw
- Walter M. Drury
- Alex. Healy
- Arthur S. Martin
- John F. Pell
- Lowell E. Smith

177
The Naval Architectural Society was organized in March, 1900, by members of Course XIII, 1901.

All regular students in Course XIII, third and fourth years, are eligible to membership.

The object of the society is to benefit the students in the course in both a professional and social way. Meetings are held once a month, at which lectures are given upon subjects which relate to the work of the course. Trips are taken to the various ship-yards, etc., where information of importance along professional lines may be obtained.

**OFFICERS**

*President, E. O. Eastwood*  
*Vice-President, W. M. Rice*  
*Secretary, G. S. Taylor*  
*Treasurer, G. M. Spear*

**MEMBERS**

<table>
<thead>
<tr>
<th>F. C. Ayers</th>
<th>B. F. Haand</th>
<th>G. S. Taylor</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Appleton</td>
<td>P. G. L. Hilken</td>
<td>W. O. Teague</td>
</tr>
<tr>
<td>C. B. Allen</td>
<td>L. W. Horne</td>
<td>C. Roosmassler</td>
</tr>
<tr>
<td>R. W. Bailey</td>
<td>R. S. Littlefield</td>
<td>R. W. Wight</td>
</tr>
<tr>
<td>E. F. Church, Jr.</td>
<td>A. Gardner</td>
<td>Miss Lydia G. Weld</td>
</tr>
<tr>
<td>O. M. Davis</td>
<td>S. A. Gardner</td>
<td>E. Walker</td>
</tr>
<tr>
<td>P. R. Dickson</td>
<td>L. W. Millar</td>
<td>H. R. White</td>
</tr>
<tr>
<td>F. C. Durant, Jr.</td>
<td>O. H. Perry, Jr.</td>
<td>C. F. Willard</td>
</tr>
<tr>
<td>E. O. Eastwood</td>
<td>C. E. Patch</td>
<td>E. F. Robbins</td>
</tr>
<tr>
<td>H. A. Everett</td>
<td>N. L. Skene</td>
<td>C. B. Coburn</td>
</tr>
<tr>
<td>E. S. Foljambe</td>
<td>A. Schwartz</td>
<td>J. A. Ross, Jr.</td>
</tr>
<tr>
<td>H. A. Ferrin</td>
<td>G. M. Spear</td>
<td>W. A. Read</td>
</tr>
<tr>
<td>H. L. Grant</td>
<td>W. M. Rice</td>
<td>F. B. Webster</td>
</tr>
</tbody>
</table>
THE
SOCIETY of ARTS

THE Society of Arts was organized in conformity with an act passed by the Legislature of Massachusetts April 10, 1861, making William Rogers with twenty others "a body corporate, under the name of the Massachusetts Institute of Technology, for the purpose of interesting and maintaining a Society of Arts, etc." Its object is as stated in the act passed by the Legislature, "to maintain an active interest in the practical sciences."

Its membership is open to all graduates of the Institute and others interested in the work of the society. The society publishes its proceedings in the Technology Quarterly. Meetings are held regularly twice a month.

President
HENRY S. PRITCHETT

Secretary
GEORGE V. WENDELL

Executive Committee

GEORGE H. BLODGETT

DESMOND FITZ GERALD

EDMUND H. HEWINS

CHARLES T. MAIN

JAMES P. MUNROE

179
Spinoza

A Ballad of Old Clothes

N front of old Rogers, the queerest of dodgers
Is busily spending each day
With his eye on the clothes of the Seniors he knows
As they pass back and forth on their way.

To Chapel he goes — as shown by his nose: —
And the Junior was not so far wrong
When he said it was sport to think one so short
Could be at one tipple so long.

They call him Spinoza — but doubtless he owes a
Good part of this eloquent name
To the Soph'moric blades who have lost by his trades
And who freely make fun of the same.

Israel Rome, he declares, is the true name he bears,
With a far eastern land as his home,
And Freshmen inclined to sell clothing will find
All roads lead to Israel Rome.
THE Andover Club of the Massachusetts Institute of Technology was organized February 23, 1894. Its membership is open to Tech. men who have been students at Phillips-Andover Academy. The object of the club is the promotion of good fellowship among its members. The annual dinner, the club's social event of the year, serves to bring into closer relationship the Andover men of the various classes.

OFFICERS

President, Ellis Fuller Lawrence
Vice-President
Alfred Warren Allyn
Secretary and Treasurer
Paul Ernest Chalfoux

MEMBERS

Alfred Warren Allyn
Allen Lansing Appleton
Franklin Seaver Bradley
Paul Ernest Chalfoux
Henry Kent Chapin
Harold Henry Davis
Robert Seaver Edwards
Joseph Kittredge Elliott
Ralph Stowell Franklin

Thayer Prescott Gates
Frank Albert Hill
Frank Albert Lang
Ellis Fuller Lawrence
John Josiah Lee
George Chadwick Richards
George Otto Schneller
Herman Roswell Simmons
Henry Wilmarth Wescott
THE M. I. T. Chicago Club was organized in October, 1895, through the efforts of Mr. Beers. The project met with immediate success and its membership soon numbered 35 men who lived within a radius of 25 miles from Chicago. The object of the club is to promote the social interests of its members and to make the Institute still better known in that part of the west. Occasional dinners form a pleasant part of the work of the club.

OFFICERS

President, Kenneth Lockett
Secretary, John F. Card
Vice-President, Harold Young Currey
Treasurer, Horace S. Baker

Executive Committee

Joseph Russell Jones
Walter Maynard Drury

MEMBERS

Horace S. Baker
John R. Brownell
John F. Card
Frank D. Chase
John T. Cheney
Edward H. Cutter
Harold Y. Currey
Oliver M. Davis
Walter M. Drury
Leonard S. Florsheim
Thomas W. Foote

Joseph R. Jones
Kenneth Lockett
George C. D. Lenth
Walter I. Martin
Henry C. Morris
Roland B. Pendergast
George M. Proudfoot
Charles A. Sawyer, Jr.
Albert F. Sulzer
Herbert S. Walker
William Waterman, Jr.

Lawrence H. Underwood

183
THE present M. I. T. Southern Club was organized March 4, 1901. The object of the club is to arouse interest in Technology throughout the southern states, and to provide for the welfare of new men from the south during the first days of their stay at the Institute. The club holds occasional banquets at which papers relating to social problems, politics, literature, etc., are read.

### OFFICERS

- **President**, Paul Gerhard L. Hilken, Maryland
- **Vice-President**, Ralph Curtis Jordan, Georgia
- **Secretary**, Lewis George Wilson, Tennessee
- **Treasurer**, Mayes Cooper, Tennessee

**Executive Committee**

- James Garrison Metcalfe, Kentucky
- Everett Owen Eastwood, Virginia
- Floyd Thomas Taylor, Virginia

### MEMBERS

<table>
<thead>
<tr>
<th>Harry V. Allen, North Carolina</th>
<th>Charles L. Homer, Texas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bark C. Averill, Texas</td>
<td>Ralph C. Jordan, Tennessee</td>
</tr>
<tr>
<td>Howard Baetjer, Maryland</td>
<td>Lewis R. Kaufman, Kentucky</td>
</tr>
<tr>
<td>Sheldon K. Baker, Dist. of Columbia</td>
<td>King H. Knox, Louisiana</td>
</tr>
<tr>
<td>Warren I. Bickford, Dist. of Columbia</td>
<td>Leroy E. Kern, Virginia</td>
</tr>
<tr>
<td>William B. Boggs, Dist. of Columbia</td>
<td>Charles S. Lawson, Alabama</td>
</tr>
<tr>
<td>Frank Z. Brown, Virginia</td>
<td>Samuel C. Lind, Tennessee</td>
</tr>
<tr>
<td>Finley Burns, Maryland</td>
<td>Simon J. Martenet, Jr., Maryland</td>
</tr>
<tr>
<td>Flavel W. Carpenter, Tennessee</td>
<td>James G. Metcalfe, Kentucky</td>
</tr>
<tr>
<td>Mayes Cooper, Tennessee</td>
<td>Humphreys Milliken, Dist. of Columbia</td>
</tr>
<tr>
<td>Everett O. Eastwood, Virginia</td>
<td>Charles P. Mulherin, Georgia</td>
</tr>
<tr>
<td>Charles W. Elmer, Maryland</td>
<td>George H. Powell, Maryland</td>
</tr>
<tr>
<td>Walter B. Greeves, Texas</td>
<td>Frank D. Rash, Kentucky</td>
</tr>
<tr>
<td>Farley Gannett, Dist. of Columbia</td>
<td>William G. Sucro, Maryland</td>
</tr>
<tr>
<td>Paul Hansen, Dist. of Columbia</td>
<td>Floyd T. Taylor, Virginia</td>
</tr>
<tr>
<td>Paul G. L. Hilken, Maryland</td>
<td>George D. Wilson, Tennessee</td>
</tr>
<tr>
<td>Lewis G. Wilson, Tennessee</td>
<td></td>
</tr>
</tbody>
</table>

184
THE Walker Club was organized in December, 1894. Its membership consists of the members of the Faculty as well as Sophomores, Juniors, and Seniors of Course IX. Its object is twofold: — the social and intellectual advancement of its members. Regular monthly meetings are held at which informal talks are usually given by some professor of the Institute. In 1896 the club gave a comedy, "Mr. Jones, Instructor," by Harry D. Hunt, '97, and "The X-ray Machine," and since then the Walker Club play has become a regular event of Junior week. Last year the "Miser" was presented. The actors are drawn from the student body at large.

President, RUSSELL BRYANT LOWE
Secretary, EVERETT LYM AN UPHAM
Treasurer, WILLIAM WRIGHT WALCOTT

FACULTY MEMBERS

Prof. Arlo Bates
Prof. Charles R. Cross
Prof. C. F. A. Currier
Prof. Davis R. Dewey
Prof. George T. Dippold
Prof. Wm. H. Niles
Prof. Henry G. Pearson
Pres. Henry S. Pritchett
Prof. Wm. Z. Ripley
Mr. Archer T. Robinson
Prof. Wm. T. Sedgwick
Prof. John O. Sumner
Prof. Harry W. Tyler
Prof. Frank Vogel

MEMBERS

HOWARD BREED
FINDLEY BURNS
CHARLES F. F. CAMPBELL
RUSSELL BRYANT LOWE
PATRICK HENRY MAGRANE
WILLIAM EDWARD STANOPE

FREDERIC CUSHING CROSS
WILLARD WELLMAN DOW
JOHN LAWRENCE GILSON
EVERETT PENDLETON TURNER
EVERETT LYMAN UPHAM
WILLIAM WRIGHT WALCOTT

BERTRAM W. B. GREENE
GEORGE ANTHONY HALL
JAMES BRADFORD LAWS

185
THE Cleofan is the outcome of a society organized in 1890 by the young women at the Institute. This society, the Eta Sigma Mu, was at first secret but soon it was decided to give up the secrecy and make it a purely social organization welcoming all young women who cared to join. In the fall of '95 the name was changed to "Cleofan." An Annual Meeting is held in May for the election of officers. Regular meetings are held every Friday afternoon at 4:30 in the Margaret Cheney Room in the Pierce Building, and at the Annual Meeting in May, officers are chosen for the coming year.

All women students coming to the Institute are invited to join the club.

OFFICERS

President, Anna B. Gallup
Vice-President, Edith A. Beckler
Treasurer, Beulah C. Hill
Secretary, Ava M. Stoddard

MEMBERS

Sarah E. Bates
Edith A. Beckler
E. May W. Best
Alice F. Blood
Marion L. Cade
Eliza Codd
Laura A. Colbath
Llora R. Culver
Kathrine Dexter
Alice N. Dike
Anna B. Gallup
Jessie G. Gibson
Greta Gray
Beulah C. Hill
Edith M. Hobbs
Laura M. Lundin
Grace MacLeod
Alice McCarthy
Elvira Wood

Eleanor Rathbun
Fanny Ropes
Cecilia Septon
Lucy M. Stevenson
Ava M. Stoddard
Edna D. Stoddard
Lydia G. Weld
Florence L. Wetherbee
Elizabeth L. Williams

186
THE Chess Club was organized in the Fall of 1896, through the efforts of Mr. Jackson, '98. There is one tournament among the members scheduled for every year. Last year this tournament was won by F. E. Cox, '03.

During the past winter the club played a series of Match Games, losing only to Harvard.

OFFICERS

President, J. R. Brownell  Vice-President, E. Seaver, Jr.

Secretary and Treasurer, C. B. Cox

MEMBERS

R. H. Bolster  A. M. Deane  H. Madero
J. S. Bridges  L. du Pont  R. Madero
J. R. Brownell  A. P. Gonzalez  S. S. Madero
F. E. Cady  C. M. Hardenbergh  R. A. Pope
H. B. Chalmer  S. Hazelwood  S. Robinson
C. B. Cox  G. Hill  E. Seaver, Jr.
Fulton Crary  R. M. Hood  R. A. Wentworth
H. B. Wood
The M. I. T. Chauncy-Hall Club was organized during the winter of 1899, as a social organization, with the following officers:

H. H. Fletcher, President; J. R. Bates, Vice-President; J. R. Jones, Secretary and Treasurer.

The object of the club is to promote good fellowship among the men coming from the Chauncy-Hall School. The Club holds monthly meetings.

**OFFICERS**

*President, J. R. Bates*  
*Vice-President, E. M. Doyle*

*Secretary and Treasurer, R. S. Franklin*

*Executive Committee*

J. R. Bates  
E. M. Doyle  
H. H. Fletcher

**MEMBERS**

I. R. Adams, '02  
José Agüilar, '03  
E. B. Allen, '01  
George Atkins, '04  
John Barry, '04  
J. R. Bates, '02  
Walter Brown, '04  
Frederick Crocker, '04

H. T. Winchester, '03  
E. M. Doyle, '04  
H. C. Fish, '02  
H. H. Fletcher, '02  
R. S. Franklin, '02  
J. Gurza, '03  
J. Russell Jones, '03  
A. Potter, '03  
C. J. Smith, '03
DIE Gesellschaft was organized, in 1899, by several undergraduates who wished to become more proficient in German conversation than was possible under Institute routine. At club meetings, extracts from German authors are read and discussed, the conversation being entirely in German.

OFFIZIER

Präsident
C. W. Kellogg, Jr.

Secretär
Eva L. Feltis

MITGLEIDER

C. S. Aldrich, '03
Eva L. Feltis, '03
W. Helmick, '03
A. E. Hansen, '02
P. Hansen, '02

R. Stresau, '04

Beulah C. Hill, '03
C. W. Kellogg, Jr., '02
G. C. Kaiser, '04
A. H. Küdlich, '04
A. E. Place, '02
During the first term of the year 1893–1894, a society known as the "Cercle Français" was founded with the object of promoting a knowledge of French conversation and literature. The club was formed chiefly by members of the Architectural course, who found that they were not familiar enough with conversational French to be able to understand the criticisms of M. Despradelle. Shortly afterwards the name was changed to "L'Avenir." Meetings are held every little while during the scholastic year, at which readings, monologues, etc., are given, and various topics discussed in French.

**OFFICIERS**

Président, Renaud Lage
Vice-Président, Louis G. Bouscaren
Secrétaire, Antoine Lage
Trésorier, Paul G. L. Hilken
Membre du Conseil d'Administration
Bertram W. B. Greene

**MEMBRES**

R. W. Bailey
L. G. Bouscaren
E. P. Burdick
W. H. Conant
J. L. Gilson
B. W. B. Greene
P. G. L. Hilken
C. A. Whittemore

Guy Hill
C. W. Kellogg, Jr.
A. Lage
H. Lage
R. Lage
B. A. Shaw
J. L. Taylor, Jr.
THE TECH

THE TECH was first published in November, 1881, under the management of a board of directors chosen from the undergraduate body. It was published bi-weekly and was of the same general appearance as at present. Several attempts had previously been made, but The Tech was the first to meet with any success. Since '92 The Tech has appeared as a weekly paper. Between '97 and '98 it ran an illustrated cover. The Board of Editors is chosen by competition and has varied from ten to fifteen men from the various classes.

Editors in Chief and Business Managers of THE TECH

'81-'82
A. W. Walker, Editor in Chief

'82-'83
H. S. Chase, Editor in Chief

'83-'84
A. D. Little, Editor in Chief

'84-'85
T. W. Fry, Editor in Chief
T. Stebbins, Advertising Agent

'85-'86
W. R. Ingalls, Editor in Chief
T. Stebbins, Advertising Agent

'86-'87
S. Warren, Editor in Chief
H. C. Spaulding, Advertising Agent

'87-'88
S. Warren, Editor in Chief
R. Robb, Advertising Agent

'88-'89
G. T. Greeley, Editor in Chief
J. L. Mauran, Advertising Agent

'89-'90
J. L. Batchelder, Editor in Chief

'90-'91
Theo. Spencer, Editor in Chief
H. N. Williams, Business Manager

'91-'92
F. H. Howland, Editor in Chief
H. N. Williams, Business Manager

'92-'93
H. L. Rice, Editor in Chief
C. R. Knapp, Business Manager

'93-'94
R. B. Price, Editor in Chief
C. R. Knapp, Business Manager

'94-'95
A. D. Fuller, Editor in Chief
H. P. Coddington, Acting Manager

'95-'96
C. G. Hyde, Editor in Chief
W. R. Strickland, Business Manager

'96-'97
C. E. A. Winslow, Editor in Chief
W. R. Strickland, Business Manager

'97-'98
C. E. A. Winslow, Editor in Chief
W. R. Strickland, Business Manager

'98-'99
M. Barney, Editor in Chief
E. B. Cooke, Business Manager

'99-'00
S. G. H. Fitch, Editor in Chief
T. W. Brigham, Business Manager

'00-'01
I. R. Adams, Editor in Chief
T. W. Brigham, Business Manager

H. H. Saylor, Editor in Chief
A. E. Lombard, Business Manager
TECHNIQUE

IN December, 1885, the Class of '87 published a small paper-covered book named "TECHNIQUE, 1885." This book contained about one hundred and fifty pages besides a few drawings and cuts. The plan was at once adopted by following classes and since then has become the College Annual, edited by a board elected from the Junior class and contains everything in the Athletic and Social branches of the Institute. For a number of years there was disagreement whether the book should be named after the class publishing it, or, as was originally the case, by the year in which it was issued. After numerous changes it has been decided to use the name of the class by which it was published.

Each class in turn has made some improvement in the book, until it now stands at the head of all college annuals.

Editors in Chief and Business Managers of Technique

"Technique '85"
F. P. Gulliver, Editor in Chief
H. C. Spaulding, Manager

"Technique '85"
G. E. Claflin, Editor in Chief
L. A. Ferguson, Manager

"Technique '87"
J. L. Mauran, Editor in Chief
R. L. Russell, Manager

"Technique '90"
F. Metcalfe, Editor in Chief
H. M. Waite, Manager

"Technique '89"
H. E. Hathaway, Editor in Chief
F. C. Blanchard, Manager

"Technique '92"
R. Waterman, Jr., Editor in Chief
F. H. Meserne, Manager

"Technique '93"
L. B. Dixon, Editor in Chief
A. L. Kendall, Manager

"Technique '94"
R. K. Sheppard, Editor in Chief
A. M. Robeson, Manager

"Technique '95"
A. D. Fuller, Editor in Chief
A. L. Canfield, Manager

"Technique '97"
W. Bancroft, Editor in Chief
T. Washburn, Manager

"Technique '98"
R. S. Willis, Editor in Chief
H. I. Lord, Manager

"Technique '99"
C. Renshaw, Editor in Chief
A. L. Hamilton, Manager

"Technique 1900"
L. Stewart, Editor in Chief
G. H. Belknap, Manager

"Technique '01"
J. T. Scully, Jr., Editor in Chief
P. H. Parrock, Manager

"Technique '02"
C. A. Sawyer, Jr., Editor in Chief
A. E. Lombard, Manager
Editor in Chief, Walter Havens Farmer, 1902

Assistant Editor in Chief, Roland Ball Pendergast, 1902

Secretary, I. Rayne Adams, 1902

Harry Westcote Maxson, 1901
Robert White, Jr., 1901
Paul Gerhard Ludiger Hilken, 1901
John Clyde Fruit, 1902

Charles Adrian Sawyer, Jr., 1902
*Henry Hodgman Saylor, 1902
Kenneth Windram Endres, 1903
Howard Scott Morse, 1903

Art Editor, Ernest Boyd MacNaughton, 1902
Business Manager, Arthur Smith More, 1902
Assistant Business Manager, Ernest Harrah, 1904

* Mr. Saylor was Editor in Chief from October, 1900, to March, 1901
THE TECHNOLOGY QUARTERLY was first issued in '87 under the management of the classes of '87 and '88. It ran for two years under student editors, but in order to further its interests, its management was placed into the hands of a Faculty Committee. The Quarterly is a book representative of the original work carried on by the Massachusetts Institute of Technology. Each number contains articles of permanent value in the departments of Scientific investigation, such as Mathematics, Engineering, Chemistry, Physics, Biology, etc. It also contains investigations and results of Alumni in their practical work. Since 1892 the Society of Arts has published its proceedings in the Quarterly, thus making it the official organ of the Institute.

Committee on Publication

WILLIAM T. SEDGWICK, Chairman

CHARLES R. CROSS

Dwight Porter

A. LAWRENCE ROTCH

ROBERT P. BIGELOW

Editor, Robert P. Bigelow

198
The Technology Review was first published in January, 1899 by the Association of Class Secretaries. Its object is the welfare and advancement of the Massachusetts Institute of Technology. In its longer articles it takes up the growth of the Institute, suggests new lines for expansion, and calls attention to the large and important problems of education that, at that time, are confronting every large college. It also treats in a more informal way the Institute life as relating to the administration, teaching staff, students and the public. The social side of Technology is taken up from reports of the Technology Club, Alumni Associations all over the country, graduate secretaries and undergraduate organizations.

The first year of its publication met with marked success and its support has been continually growing. It fills a long felt want in keeping the Alumni and Undergraduates, as well as the Faculty, in touch with one another.

Committee on Publication

C. Frank Allen, '72
Walter B. Snow, '82
Leonard Metcalf, '92

James P. Munroe, '82
Walter Humphreys, '97
PREVIOUS to the year 1894, a custom of the Senior class had been the exchange and collection of photographs by a majority of the members. The '94 Photograph Committee, however, appreciating the trouble in procuring and the subsequent inconvenience of, such a collection, conceived the idea of a portfolio, in which might be found a half-tone of each member of the class.

Recent Portfolios have given, in addition to the half-tones, the honors each man has acquired since his connection with Tech. The honors include class offices he has held, clubs and societies of which he was a member, etc., etc. The Senior Portfolio of 1900 also contained excellent full page photogravures of the four Presidents of the Institute, from the time of its foundation in 1865 to the retirement of President Crafts in 1900.

1901 Portfolio Committee

Ellis Fuller Lawrence, Chairman

Percy Harry Parrock
William Wright Walcott

Samuel Winthrop St. Clair
Frank Arnold Colby
Leader, Henry K. Hooker, '02
Manager, Claude E. Patch, '02

FIRST TENORS
George W. Bateman, '03
Charles A. Whittemore, '01

SECOND TENORS
Frank G. Babcock, '03
Edward Seaver, Jr., '01
Roger D. Babson, '03
J. C. Woodsome, '01

FIRST BASSES
James Driscoll, '02
Lewis G. Wilson, '03

SECOND BASSES
G. Winthrop Allen, '01
Lewis A. Miller, '01
Claude E. Patch, '02
William N. Brown, '02
Henry K. Hooker, '02
George D. Wilson, '03

OMAS S. SWENSON, '03
WALTER P. DAVIS, '01
WALTER WELLMAN, '02
HENRY N. HUDSON, '01
Mandolin Club
M.E.T.

1900-1901
GOODWIN  MORSE
FIELD  WHIPPLE  HAZELTINE
SHERHILL  HIGGINS  BROWNELL  MORTON  CADY
Leader, Robert B. Morton, '01  Manager, Albert W. Higgins, '01

Mandolins
Francis E. Cady, '01  William T. Goodwin, '04  John R. Morse, '01
Frank D. Chase, '01  Reginald Hazeltine, '04  Paul M. Paine, '04
Francis J. Field, '03  Albert W. Higgins, '01  Harold W. Sherrill, '04
Stuart W. Benson, '04  Paul D. Hawkins, '04  Robert B. Morton, '01

Flutes

Guitars

Cellos
Harry T. Stix, '04
Banjo Club
M.E.T.

1900-1901

MARTIN MAGRANE BENSON CURREY CUMMINS
BELCHER ALLEN LOCKETT BOYD FOSTER KRUSE BURDICK
Leader, Frederic R. C. Boyd, '01

Manager, Kenneth Lockett, '02

Donald M. Belcher, '02
Mortimer B. Foster, '01

Banjeaurines
Frederic R. C. Boyd, '01
W. I. Martin, '01

Mandola
Harle O. Cummins, '02

Banjos
Harold Y. Currey, '02

Guitars
Robert L. Kruse, '03

Kenneth Lockett, '02

Edwin P. Burdick, '01

Harry R. Low, '03
The Glee Club was organized in the fall of '83. The club gave two or three very successful concerts and soon combined with an orchestra which had just been formed. These clubs met with various successes until they finally disbanded owing to lack of support. In 1890 the Glee Club was reorganized, and a Banjo Club took the place of the orchestra. Shortly after this a Mandolin Club was organized, and the three clubs united under the name of the Massachusetts Institute of Technology Musical Clubs. Each club has its own leader and manager but all are under the control of the Association. The clubs give a number of concerts in and around Boston, and generally take several short trips. Three home concerts are given during the year, one in December, one in Junior week, and one in June, complimentary to the graduating class.

Officers

President, Mortimer B. Foster
Manager, Henry N. Hudson
Treasurer and Assistant Manager, Roger D. Babson

Vice-President, Charles A. Whittemore
Secretary, Robert B. Morton

Schedule of Concerts, Season 1900–1901

Nov. 23 Concord Junction
Dec. 3 Boston College
Dec. 6 Colonial Club, Salem
Dec. 11 Winter Concert
Dec. 19 Young's Hotel
Dec. 26 Roslindale
Dec. 27 Needham
Jan. 2 Stoneham
Jan. 10 Y. M. C. A., Lynn
Feb. 12 Hunnewell Club, Newton
Feb. 16 Colonial Club, Cambridge
Mar. 2 Northampton
Mar. 8 Arlington
Mar. 14 Y. M. C. A., Cambridge
Mar. 21 Y. M. C. A., Watertown
April 11 Marblehead
April 16 Technology Club
April 24, Spring Concert
MISCELLANEOUS
Institute Committee
M. I. T.

1900-1901

ADAMS  HILKEN  McINTOSH  HOMER  FRUIT

RASH  LAWRENCE  CATES

BURNHAM  PARKER  EMERSON  FIELD
THE plan for an Institute Committee was organized by the class of '93, and submitted to the other undergraduate classes at that time. The President and Vice President respectively of the committee, while the Secretary and Treasurer is either a Junior or Sophomore. The committee consists of ten members during the first term, and twelve during the second. The committee has three honorary members, consisting in the President and Secretary of the Institute and one other member of the Faculty. Its meetings are held weekly.

One member of the committee is appointed custodian of the Trophy room, one member is elected to the Association of Class Secretaries, while another is elected a representative to the Advisory Council on Athletics.

The object of this organization is to further the interests of Technology and to form a responsible body through which communication can be directly made between students and faculty.

President, Ellis Fuller Lawrence, '01  Vice-Pres., Louis Shattuck Cates, '02

Secretary-Treasurer, Frank Dillman Rash, '01

Representative to Association of Class Secretaries, I. Rayne Adams, '02

Representative to Advisory Council on Athletics, Louis Shattuck Cates, '02

Paul Gerhard Ludiger Hilken  Frank Dillman Rash
Ellis Fuller Lawrence, President  1901

I. Rayne Adams  John Clyde Fruit
Louis Shattuck Cates, President  1902

Charles Jewell McIntosh  Paul Revere Parker
Richard Manning Field, President  1903

Leonard Preston Burnham  Merton Leslie Emerson
Charles Lowell Homer, President  1904

211
TECHNIQUE Electoral Committee

THE Class of ’91, in its Sophomore year, wishing to have particular care taken in the election of the Technique Board, adopted a plan which all succeeding classes have followed.

The class elects, by ballot, twenty-five men out of its number to serve on the “Electoral Committee.” All regular members of the class are eligible to serve on the committee. This committee then organizes under a chairman and secretary, and proceeds to elect a board of eight, consisting until this year, of two associate editors, a business manager, an assistant manager, two statisticians, a society and an athletic editor. The artistic staff is chosen by a competition open to all members of the class. This year the Electoral Committee elected three associate editors, and the board then chose one of these as editor in chief. After the board is once chosen any vacancy which may occur is filled by the board.

1902

TECHNIQUE ELECTORAL COMMITTEE

Chairman, H. O. Bosworth
Secretary, J. C. Fruit

I. R. Adams          H. Y. Currey          A. E. Lombard
A. W. Allyn          W. H. Farmer          C. E. McCarthy
D. M. Belcher        A. W. Friend          R. B. Pendergast
H. O. Bosworth       J. C. Fruit           H. B. Pond
M. Brodie            F. Gannett           R. Proctor, Jr.
R. V. Brown          P. Hansen            C. A. Sawyer, Jr.
L. S. Cates           C. W. Kellogg, Jr. H. H. Saylor
P. E. Chalifoux      K. Lockett            G. T. Seabury

W. H. Simpson        K. T. Stow

213
Technology Club

THE Technology Club, founded in the Spring of 1896 by a representative body of Alumni and Members of the Faculty and Corporation, was the realization of the then growing sentiment in favor of adopting some means for the development of social life at the Institute. A meeting was held May 1, 1896, to consider the problem, and the Technology Club stands today, the successful solution. Membership in the Club is open to all past students of the Massachusetts Institute of Technology, all past or present members of the Corporation, Faculty and Instructing Staff of the Institute, and to a limited number of upper classmen (60). The present total membership of the Club is 600.

The object of the Club is to provide a suitable place for reading rooms, libraries, and for social meetings of the members, also to promote the welfare of the Institute and the common social interests of its past and present officers and students. The clubhouse at 71 Newbury Street is provided with pool and billiard rooms, dining room, reading rooms, an assembly hall, and a few bedrooms. There have been on an average, twelve smoke talks during each winter, which, together with the "ladies' nights," musicales, receptions, and the like, make the Club exceedingly popular.

OFFICERS

President, James Phineas Munroe, '83
Vice-President, Francis Henry Williams, '73
Secretary, Walter Humphreys, '97
Treasurer, Walter Elbridge Piper, '84

HOUSE COMMITTEE

Harry Wentworth Gardner, '94
Walter Harrington Kilham, '89
Charles Perkins Moat, '90
Y. M. C. A.

THE Young Men's Christian Association of M. I. T. was organized on January 17, 1895. The Association maintains regular weekly meetings, Bible Classes, a Mission Study Class, and a number of social entertainments at the Student House, 566 Massachusetts Avenue. Aside from this work their chief aim is to help new students, and with this in view they conduct information bureaus at both the June and September entrance examinations, where they keep a carefully selected list of boarding and lodging houses. They also issue a hand book which contains every possible information that can be of use to men unfamiliar with Boston. The Society also gives a reception of welcome, in September, to the Freshman Class.

OFFICERS

President, Joseph P. Catlin, HERBERT PHINNEY
Secretary, CLYDE R. PLACE
Treasurer, WALTER S. FITCH
General Secretary, WILLIAM C. PICKERSGILL

MEMBERS

Faculty and Instructing Staff

Pres. HENRY S. PRITCHETT
Prof. JAMES M. CRAFTS
Prof. JOHN D. RUNKLE
Prof. ROBERT H. RICHARDS
Prof. WILLIAM H. NILES
Prof. WILLIAM T. SEDGWICK
Prof. Cecil H. Peabody
Prof. Dwight Porter
Prof. Allyn E. Merrill
Prof. Frank Vogel
Prof. Fred L. Bardwell
Prof. S. Homer Woodbridge

William R. Whitney
William A. Johnston
Ervin Kenison
Kilburn S. Sweet

Miles S. Sherrill

Class of 1900

George B. Ford
Paul L. Price
Class of 1901

W. Cornell Appleton
Frank K. Baxter
Perkins Boynton
Joseph P. Catlin
William E. Farnham
Arthur G. Hayden

Sumner Hazlewood
Louis R. Henrich
William G. Holford
Archibald L. Klieves
Ellis F. Lawrence
Charles E. Martin
Waldo G. Wildes

George LeR. Mitchell
Oliver H. Perry, Jr.
F. Willard Puckey
Clifford H. Shivers
Roland D. Simonds
Arthur K. Trenholme

Class of 1902

Stephen R. Bartlett
Harold O. Bosworth
Norman E. Borden
Walter S. Fitch
Harold H. Fletcher
Alfred W. Friend
George A. French
Archibald Gardner

Paul Hansen
Wilson P. Harris
Arthur S. More
Arthur R. Nichols
John R. Odell
Claude E. Patch
Herbert Phinney
William C. Pickersgill

Clyde R. Place
Henry H. Saylor
Howard C. Judson
Albert E. Lombard
Zenas N. Mattroian
Robert Mayo, Jr.
Kent T. Stow
Everett L. Upham

Henry W. Westcott
Irving Williams

Class of 1903

John S. Bridges, Jr.
George H. Clapp
Hewitt Crosby
Howard S. Denham
Le Roy B. Gould
Justin E. Harlow

Edward E. Hoxie
Robert J. King
Lawrence H. Lee
Bernard W. Latham
William C. Lounsbury
George C. D. Lenth

Ralph D. Morris
Virgil M. Palmer
R. Hayes Rogers
Omar S. Swenson
William F. Tanner
H. H. Valiquet

Class of 1904

S. W. Benson
Ernest W. Calkins, Jr.
William A. Evans
O. D. Fellows
Don L. Galusha
Jas. H. Harnett
Percy G. Hill

Herbert Hollnagel
Alfred Kudlich
M. Edgar Mason
Howard Moore
H. LeRoy Pierce
Alexander W. Richards
Bertram A. Richardson

John Royal Sanborn
Henry C. Schaefer
Herman R. Simmons
Charles L. Steinrok
Edwin P. Tripp
Wm. G. H. Whitaker, Jr.
Chas. G. Williams

217
THE M. I. T. Co-operative Society was organized in April, 1886, by the Class of '87. It is under the management of a board of directors consisting of the President of the Institute and representatives from the three upper classes. The society operates a book exchange, as well as supply rooms in the Engineering and Architectural Buildings. The money obtained from these sources and from the membership tickets, is devoted to scholarships. The membership ticket entitles the holder to discounts at various stores with which arrangement has been made by the society. A lunch room was started by the society, but was finally turned over to the corporation. Since its establishment the society has given about four thousand five hundred dollars in scholarships.

OFFICERS

President, Herbert Haley Kennedy, 1901
Vice-President, Kent Tillinghast Stow, 1902
Secretary, Albert Eaton Lombard, 1902
Treasurer, Andrew Dugald Maclachlan, '96

DIRECTORS

For the Faculty, Henry S. Pritchett

For 1901
William Truman Aldrich
Newman Loring Danforth
Herbert Haley Kennedy

For 1902
Louis Shattuck Cates
Albert Eaton Lombard
Kent Tillinghast Stow

For 1903
Hewitt Crosby
Lawrence Hargreave Lee
IN conformity with the requirements of the Acts of Congress of July 2, 1862, and August 30, 1890, and the Acts of the General Court of Massachusetts in furtherance thereof, the Institute provides instruction in Military Science and Tactics. All male students (unless aliens, or above the age of 23) taking a majority of their hours in the first year are required to attend exercises in Military Drill two hours a week and a lecture on Military Science once a week. For a few years previous to '95 the Battalion held exhibition drills, but these were dropped and a series of Intercollegiate Drills were held instead. The most successful of these was held in May, '96, under the auspices of the Class of '99, when Technology won the battalion drill against Brown University and also took first and third prizes in the individual drill against Brown, Harvard, and Massachusetts Agricultural College. In the fall of '98 a picked company from the 1902 battalion won the prize for company drill and firing, against State troops and marines.

OFFICERS

Adjutant, Walter J. Gill, Jr.  

Sergeant-Major, Guy W. Eastman

Company A  

Captain  
L. P. Burnham  
First Lieutenant  
A. D. Smith  
Second Lieutenant  
H. W. Goddard  
First Sergeant  
W. F. Gerry  
Sergeants  
Shohl, Smith, Fellows, Doherty

Company B  

Captain  
J. S. Burrows  
First Lieutenant  
C. R. Haynes  
Second Lieutenant  
L. R. Grant  
First Sergeant  
D. L. Galusha  
Sergeants  
Crowell, Russell, Sweetser

Company C  

Captain  
H. F. Noyes  
First Lieutenant  
G. E. Willcomb  
Second Lieutenant  
E. Jenkins  
First Sergeant  
W. H. Conant  
Sergeants  
Richardson, Richards, Rockwood, Underhill

Company D  

Captain  
G. W. Briggs  
First Lieutenant  
M. E. Weaver  
Second Lieutenant  
L. A. Russell  
First Sergeant  
C. L. Homer  
Sergeants  
Emerson, Miller, Saville, Rodgers, Yoder
OFFICERS

President, Wm. Whipple, '01  
Vice-President, W. T. Aldrich, '01  
Secretary, A. W. Rowe, '01

Executive Committee

J. B. Laws, '01  
E. F. Lawrence, '01
G. T. Seabury, '02  
L. H. Underwood, '03
M. L. Emerson, '04
Alumni Associations

Technology Alumni Association

President, C. T. Main, ’76
Vice-President, H. H. Campbell, ’79
Secretary, E. F. Miller, ’86, Massachusetts Institute of Technology

Members of Executive Committee

C. T. Main, ’76
H. H. Campbell, ’79
E. F. Miller, ’86
C. A. Stone, ’88
H. C. Forbes, ’91

W. J. T. Society of New York

Organized June 8, 1895

Executive Committee

Secretary and Treasurer, A. R. McKim, ’85, 106 East 23d St., New York, N. Y.
W. B. Dowse, ’74
C. A. Meade, ’94
E. R. French, ’92
A. Ames, Jr., ’95

Northwestern Association of W. J. T.

President, I. W. Litchfield, ’85
Vice-President, E. L. Andrews, ’94
Secretary and Treasurer, E. M. Hagar, ’93, 1060 The Rookery, Chicago

Executive Committee

I. W. Litchfield, ’85
L. B. Dixon, ’93
C. L. Burlingham, ’86
E. L. Andrews, ’94
E. M. Hagar, ’93
L. K. Yoder, ’95

Connecticut Valley Alumni Association

Organized 1896

Executive Committee

N. P. A. Carter, ’87
H. Souther, ’86
J. S. Newton, ’88, Chairman
G. L. Munn, ’88
H. A. Francis, ’83

222
M. J. T. Western Association

President, E. W. Rollins, '71  Vice-President, B. H. Locke, '72
Secretary-Treasurer, F. E. Shepard, '87, 924 Washington Ave., Denver

The Tech Society of Philadelphia

Secretary-Treasurer, S. S. Sadler, '95

Executive Committee

A. J. Boyden, '75  S. A. Neidich, '98
A. B. Stoughton, '86  Benj. Adams, '95

The Pittsburg Association of M. J. T.

Organized April, 1898

President, W. M. Reah, '79  Vice-President, A. B. Bellows, '90
Secretary-Treasurer, P. H. Blodgett, '95, National Tube Co., Pittsburg, Pa.

The Tech Society of Western New York

Organized Sept. 17, 1898

Executive Committee

G. A. Ricker, '86  M. B. Patch, '72
H. L. Noyes, '90  E. C. Lufkin, '85
Secretary-Treasurer, H. A. Boyd, '79, 125 Erie Co. Bank Bldg., Buffalo, N.Y.

The Washington Society of M. J. T.

Organized Feb., 1899

President, H. A. Pressey, '96  Vice-President, P. L. Dougherty, '97
Treasurer, F. O. Stetson, '88  Secretary, A. W. Proctor, '99
                      U. S. Patent Office, Wash., D.C.

Executive Committee

P. L. Dougherty, '97  F. O. Stetson, '88
Winthrop Cole, '87

223
Association of Class Secretaries at the Massachusetts Institute of Technology

Secretary, Walter B. Snow

Assistant Secretary, Frederic H. Fay

Members and Class Representatives

'68 Prof. Robert H. Richards, Secretary
Massachusetts Institute of Technology, Boston, Mass.

'69 Mr. Howard A. Carson, Representative
20 Beacon Street, Boston, Mass.

'70 Prof. Chas. R. Cross, Secretary
Massachusetts Institute of Technology, Boston, Mass.

'71 Mr. Edward W. Rollins, Secretary
53 State Street, Boston, Mass.

'72 Prof. C. Frank Allen, Secretary
Massachusetts Institute of Technology, Boston, Mass.

'73 Mr. Samuel E. Tinkham, Secretary
City Hall, Boston, Mass.

'74 Mr. Chas. F. Read, Secretary
Old State House, Boston, Mass.

'75 Mr. E. A. W. Hammatt, Secretary
53 State Street, Boston, Mass.

'76 Mr. J. R. Freeman, Secretary
4 Market Square, Providence, R. I.
<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Position</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>'77</td>
<td>Mr. Richard A. Hale</td>
<td>Secretary</td>
<td>Lawrence, Mass.</td>
</tr>
<tr>
<td>'78</td>
<td>Mr. Linwood O. Towne</td>
<td>Secretary</td>
<td>Haverhill, Mass.</td>
</tr>
<tr>
<td>'79</td>
<td>Mr. Harry H. Campbell</td>
<td>Secretary</td>
<td>Steelton, Pa.</td>
</tr>
<tr>
<td>'79</td>
<td>Mr. Edwin C. Miller</td>
<td>Representative</td>
<td>88 Boylston Street, Boston, Mass.</td>
</tr>
<tr>
<td>'80</td>
<td>Prof. George H. Barton</td>
<td>Representative</td>
<td>Massachusetts Institute of Technology, Boston, Mass.</td>
</tr>
<tr>
<td>'81</td>
<td>Mr. Frank E. Came</td>
<td>Secretary</td>
<td>17 Place d'Armes Hill, Montreal, P. Q.</td>
</tr>
<tr>
<td>'81</td>
<td>Major Frank H. Briggs</td>
<td>Representative</td>
<td>2 High Street, Boston, Mass.</td>
</tr>
<tr>
<td>'82</td>
<td>Mr. Walter B. Snow</td>
<td>Secretary</td>
<td>Watertown, Mass.</td>
</tr>
<tr>
<td>'83</td>
<td>Mr. Harvey S. Chase</td>
<td>Secretary</td>
<td>8 Congress Street, Boston, Mass.</td>
</tr>
<tr>
<td>'84</td>
<td>Dr. Augustus H. Gill</td>
<td>Secretary</td>
<td>Massachusetts Institute of Technology, Boston, Mass.</td>
</tr>
<tr>
<td>'85</td>
<td>Prof. E. B. Homer</td>
<td>Secretary</td>
<td>1 Somerset Street, Boston, Mass.</td>
</tr>
<tr>
<td>'86</td>
<td>Prof. Arthur G. Robbins</td>
<td>Secretary</td>
<td>Massachusetts Institute of Technology, Boston, Mass.</td>
</tr>
<tr>
<td>'87</td>
<td>Mr. Edward G. Thomas</td>
<td>Secretary</td>
<td>4 State Street, Boston, Mass.</td>
</tr>
<tr>
<td>'88</td>
<td>Mr. William G. Snow</td>
<td>Secretary</td>
<td>704 Arch Street, Philadelphia, Pa.</td>
</tr>
<tr>
<td>'89</td>
<td>Mr. W. H. Kilham</td>
<td>Secretary</td>
<td>3 Hamilton Place, Boston, Mass.</td>
</tr>
<tr>
<td>'90</td>
<td>Mr. George L. Gilmore</td>
<td>Secretary</td>
<td>Lexington, Mass.</td>
</tr>
<tr>
<td>'91</td>
<td>Mr. Chas. Garrison</td>
<td>Secretary</td>
<td>Lexington, Mass.</td>
</tr>
<tr>
<td>'92</td>
<td>Prof. Severance Burrage</td>
<td>Secretary</td>
<td>Purdue University, Lafayette, Ind.</td>
</tr>
</tbody>
</table>
'92 Mr. LEONARD METCALF, Representative
14 Beacon Street, Boston, Mass.

'93 Mr. Frederic H. Fay, Secretary
60 City Hall, Boston, Mass.

'94 Mr. S. C. Prescott, Secretary
Massachusetts Institute of Technology, Boston, Mass.

'95 Mr. E. H. Huxley, Secretary
29 Hampshire Street, Cambridgeport, Mass.

'96 Mr. F. E. Guptill, Secretary
1006 E. Main Street, Richmond, Va.

'96 Mr. Chas. G. Hyde, Representative
Room 140, State House, Boston, Mass.

'97 Mr. J. A. Collins, Secretary
55 Jackson Street, Lawrence, Mass.

'98 Mr. C.-E. A. Winslow, Secretary

'99 Mr. Walter O. Adams, Secretary
1776 Massachusetts Avenue, North Cambridge, Mass.

1900 Mr. G. E. Russell, Secretary
Massachusetts Institute of Technology, Boston, Mass.

Ellis Fuller Lawrence, '01, President of Senior Class
I. Rayne Adams, '02, Representative of Institute Committee
Mr. James P. Munroe, President of Technology Club,
179 Devonshire Street, Boston, Mass.

Dr. Harry W. Tyler, Secretary of the Institute
Massachusetts Institute of Technology, Boston, Mass.

Mr. C. T. Main, President of Alumni Association
Mr. E. F. Miller, Secretary of Alumni Association
DInNERS
Class of 1901

Toastmaster, Percy H. Parrock

The Class          Ellis Fuller Lawrence
                     “Without a Peer.”

Quartet            Charles A. Whittemore
                    Edward Seaver
                    Claude E. Patch
                    George W. Allen

War                Robert William Bailey
                     “Oh, ye gods—of peace!”

Quartet

The President      Willard Wellman Dow
                     “A man that men honor.”

Duet                Mortimer B. Foster
                     Frederick R. C. Boyd

Athletics          Ray Murray
                     “Let me go, sir, or I’ll knock you o’er the mazzard.”

Quartet

Our Degrees        William Jesse Newlin
                     “Forgive us our sins! O help—”

Duet                Albert W. Higgins
                     Frederick R. C. Boyd

The Thorndike, January 9, 1901

228
Class of 1902

Toastmaster, George Tilley Seabury

Address

Louis Shattuck Cates

Music

Donald Minor Belcher
Harle Oren Cummins
Kenneth Lockett

"Phys Lab"

"Science is nothing but the finding of analogous identity in the most remote parts." — Emerson

Matthew Brodie

The New Gym

Stephen A. Gardner, Jr.

"I will a round unvarnished tale deliver." — Othello

Music

Donald Minor Belcher
Harle Oren Cummins
Kenneth Lockett

"Chapel"

Charles Sydney Thomas

"Gentleness, perchance you wonder at this show,
But wonder on, 'till truth make all this plain." — Shakespeare

Our President

John Clyde Fruit

"The heart to conceive, the understanding to direct, the hand to execute."

The Lenox, March 7, 1901

229
Sophomore Dinner
Massachusetts Institute of Technology

Class of 1903

Toastmaster, John Lawrence Gilson

Address

RICHARD MANNING FIELD

"Common fame is to every man only what he himself commonly hears."

Music

ALFRED ERNEST LANG

"I would it were impossible."

The President

BENJAMIN NELDS, JR.

"Wonders are willingly told and willingly heard."

The Oars

FLOYD THOMAS TAYLOR

"Every man has a lurking wish to appear great among his friends and those he knows."

Music

HENRY RAYMOND LOW

"Once more it comes."

The Faculty

FINDLEY BURNS

"The size of a man's understanding may always be justly measured by his mirth."

Track Athletics

HENRY THORNTON WINCHESTER

"Allow children to be happy in their own way, for what better way will they ever find."

Music

ALFRED ERNEST LANG

"It begins to please, as a recreation from weighty matters."

Town Topics

WALTER MAYNARD DRURY

"Seldom any story is wholly true."

Our Technique

MORTIMER YALE FERRIS

"Prodigious things are always seen in proportion as they are expected."

The Thorndike, March 16, 1901

230
FRESHMAN DINNER

Class of 1904

Toastmaster, H. W. Bull

Address ........................................ C. L. Homer
The Freshmen ................................. J. W. Cobb

Music

Athletics ....................................... Fulton Crary

Music

To "04" ......................................... E. L. Doyle

The Thorndike, Saturday, March 30, 1901

231
Junior Week

1901

APRIL 24
* Annual Spring Concert of the Musical Clubs and dance, Paul Revere Hall.

APRIL 25

APRIL 26
* Reception at Technology Club. * Junior Promenade, Pierce Hall.

APRIL 27
* Tea given by The Tech, The Tech office.
1902
JUNIOR
WEEK
FUNCTIONS

MONDAY EVENING
April 22
Walker Club Play

WEDNESDAY EVENING
April 24
Musical Clubs' Annual Spring Concert and Dance

THURSDAY
April 25
TECHNIQUE Volume XVI issued
*The Tech* tea, *The Tech* office

THURSDAY EVENING
April 25
Junior Promenade, Algonquin Club
Pierce Hall, April 26, 1900

Committee

C. W. Adams
W. I. Bickford
V. F. Holmes

W. T. Aldrich
N. L. Danforth
W. Whipple

Matron:

Mrs. George Swain

Mrs. A. Laurence Rotch

Mrs. Alexander S. Porter
Algonquin Club, Thursday, April 25, 1901

Committee

Redfield Proctor, Jr.  
L. S. Cates  
H. Y. Currey  
H. S. May  
W. J. Mixter  
K. T. Stow

Mrs. Pritchett

Mrs. Robert S. Peabody  
Mrs. A. Laurence Rotch  
Mts. Henry Whitman  
Mts. Henry M. Whitney

Will receive
WALKER CLUB PLAY

"The Miser"

CAST

LOVEGOLD ....................... John Timothy Scully, Jr.
RAMILIE ......................... William Cornell Appleton
FREDERICK ....................... Charles Prescott Tolman
CLERMONT ....................... Andrew Hopewell Hepburn
JAMES ......................... Arthur John Eveland
DECOY ......................... Frederick Newton Fowler, Jr.
UPHOLSTERER ................... Frederick Henry Sexton
MERCER ......................... Benjamin Nield, Jr.
JEWELER ....................... John Lawrence Gilson
THOMAS ......................... Frederick Newton Fowler, Jr.
MARIANA ....................... Edward Pierrepont Beckwith
HARRIET ....................... Arthur McGregor Constantine
LAPPET ......................... Herbert Holmes Howe
MISTRESS WYSELEY ............ Anthony Winfred Peters
MISTRESS WHEEDLE ............ John Russell Morse
LA BELLE ...................... Frank Blair Driscoll

Scenes

Class of 1900

Saturday, June 2
Concert tendered to the Graduating Class by the Technology Glee, Banjo, and Mandolin Clubs
Huntington Hall, 8 p.m.

Sunday, June 3
Baccalaureate Sermon preached by Rev. George Hodges, D.D., at
Trinity Church, 4 p.m.

Monday, June 4
Class Day Exercises
Huntington Hall, 2:30 p.m.

Tuesday, June 5
Graduating Exercises
Huntington Hall, 2:30 p.m.
Class-Day Exercises.

Huntington Hall, Monday, June 4, 1900

Class Day Officers

First Marshal, Percy Rolph Ziegler
Second Marshal, Walter Louis Rapp
Third Marshal, Marcy Leavensworth Sperry

President of 1900: Clifford Milton Leonard
Historian: Herbert Milton McMaster
Statistician: Newitt Jackson Neall
Prophet: Frederick Hosmer Cooke
Poet: Herbert Holmes Howe
Orator: Charles Van Merrick

Class Day Committee

Morgan Barney
James Hervey Bacheller
Frank David Chase
William Rawson Collier
Walter Crane Chaffee

Francis Bird Dutton
William Baldwin Hough
Henry Detrick Jouett
Lewis Morse Lawrence
Clifford Milton Leonard

Herbert Austin Macpherson
Harry Edmund Osgood
Robert Parker Roberts
Stanley Collamore Sears

Class Day Exercises

Address by Class President: Clifford Milton Leonard
Address by First Marshal: Percy Rolph Ziegler

History: Herbert Milton McMaster
Statistics: Newitt Jackson Neall
Prophecy: Frederick Hosmer Cooke

Poem: Herbert Holmes Howe
Oration: Charles Van Merrick
Huntington Hall, Tuesday, June 5, 1900

Address

President James M. Crafts

Reading of Abstracts of Theses

Experiments to determine the Accuracy that may be attained with the Pilot Tube in the Measurement of the flow of Water through Pipes

Clinton Draper Thurber

An Investigation of the Friction of Steam in Elbows and Bends

Arthur Clarence Walworth, Jr.

An Investigation of the Effect of Annealing upon the Physical and Microstructure of a Low Carbon Steel

Stephen Badlam

Design for a University Library

George Burditt Ford

The Recovery of Zinc from Pyrite Residues

Harry Martin Thayer
A Study of Wave Forms in the Three-wire Generators of the Institute Plant at Trinity Place  

A Study in Variation: taking certain features of the shell of the Marine Gastropod, Purpura Lapillus  

An Investigation of the Effects of Dilution on the Color of Copper Solution, and its relation to the Dissociation Theory  

A Review of State Legislation since 1890 in regard to Trusts  

The Mercerization of Cotton with the addition of Aluminates, Silicates, Glycerine and Glucosides, to the Mercerization Bath  


Collection and Reduction of Data for the Powering of Ships  

Leigh Shelton Keith  

Harold Sargent Conant  

Grace Langford  

Joseph Porter Draper  

Stanley Gay Hyde Fitch  

Charles Mussey Fosdick  

Robert Coffin Simpson
Summer Schools
The Summer School of Architecture

As in previous years, the Summer School of Architecture was held during the last three weeks of June, 1900. The party, consisting of nine members of Course IV, travelled about New England, under the guidance of Professor Homer, of the Architectural department, the object being the study of the choicer examples of Colonial Architecture. Although sketches were made and a few photographs taken of the better known works, the school in general confined its efforts to unstudied types.

King's Chapel, Boston's famous old land-mark, furnished the material for the first day's work, as the many measurements enabled the more inexperienced men to get what necessary practice they needed. The party left Boston the next day for Providence, R. I., where many excellent examples furnished by Professor Homer, kept each member of the party busy day and evening for a week. The First Baptist Church, a very fine example of its kind, showing the influence of the English Wren's school on our early Architecture, was thoroughly studied and carefully worked out. The details and general measurements were recorded and later put into the form of finished plates, which in case the church was destroyed would be of much value in rebuilding.

The church is situated on a hillside, and is surrounded by noble old elms, which add to its general atmosphere of ancientness, and which, like a centenarian bodyguard, seem imbued with secrets of some nine score years or more.

Most exciting was the measuring of the high steeple, which is indeed a land-mark, reaching up far above the elm tops and nearby buildings. Several typical doorways were also studied, the taste of variety being
added to by the study of the old Carrington House and the Rufus Greene mansion. The doorways were found in the poorer quarter of the city, and were in the last stages of decay and ruin. One seems to feel a certain sense of loneliness as he regards that which was once the entrance to an ideal American sea captain's home, which now shelters large families of foreigners. On the other hand, the Carrington House, having been kept up by its owners, contains besides delightful architectural detail, many interesting relics of past days. The Rufus Greene mansion, too, is typical of the prosperous homes of the early New Englanders, and like our Salem colonial brick work, speaks most eloquently of the virtues of that class, New England's own. The party made the Pierce Building its headquarters for the remaining two weeks, working on unfinished Providence plates and making bicycle sketching trips to such places as Wayland, Weston, Lexington and Concord, Mass. The bicycle trips gave the men much experience in quick sketching, besides giving them a taste of an ideal college good fellowship. The last two days, the most remembered of all, were spent in and about Gloucester and Newburyport, those picturesque old coast towns which abound with quaint old characters and buildings. A fish dinner was enjoyed at Parker River and a midnight lunch and sail indulged in that evening. After the sail came the never-to-be-forgotten early morning search for a lodging place, with the inevitable result in such cases, four in an eight by twelve. The last day was spent in wheeling from Newburyport to Gloucester, where the school disbanded after three most delightful weeks of work and pleasure.
THE school had its headquarters at the Burkehaven House, a hotel on the shore of Lake Sunapee, N. H., the proprietor having been persuaded to open several weeks earlier for our convenience. The main feature of the work was the preparation, on four plane-table sheets, of a topographical map, with ten foot contour intervals, of the valley and hills on either side of Sugar River, the outlet of Lake Sunapee. This territory included a considerable portion of the village of Sunapee, lying along the river. The mapping also included a part of the shore of the lake above the outlet. As the district was for us a virgin territory, the first work was the establishment of a system of triangulation. Signals were erected on five hills immediately surrounding, or included in, the territory to be mapped, and a base line measured. At least three of these signals could be plotted on each plane-table sheet, and on occupying them successively a number of secondary signals and prominent points on the landscape were obtained in the usual manner as a basis for the contouring and detail work.

It was also desired to get the elevation of the base line, in order to refer the contours to a known datum. For this purpose two parties started from different points on the railroad (Claremont Branch, B. & M.), whose elevations were given by the profile, and ran a line of levels to the base. Their results differed by some 20 feet. Each party was confident of its own work and inclined to suspect that of the other: a subsequent line run over the railroad itself, however, showed the error to be entirely on the profile.

Another and somewhat more successful attempt to orient our map as a whole, was made near the end of our stay. Mts. Sunapee and Kearsarge, the two highest points within a radius of some miles, had been located on the triangulation system of the Coast Survey. One of our stations, "Burkehaven," formed an excellent triangle with these. Parties were sent therefore to take angles and give signals at these mountains. The signals were given
by heliographs roughly made for the occasion, but flashing with the utmost
clearness over the 18 or 20 miles between stations. The Kearsarge party
enjoyed a magnificent view from the summit; Mt. Washington and the Notch,
Lake Winnepiseogee, the Merrimac and
Mt. Monadnock, all being plainly visible.
The Sunapee party had rather a hard
time of it in climbing the mountain over
very rough ground choked with fallen trees
and boulders. There are three peaks to
the mountain and all were climbed before
the party succeeded in finding the trian-
gulation station. Two of the members
were left behind on the return trip and
were obliged to sprint along the railroad
for something over a mile to catch the
last boat for the hotel.
In addition to the surveying, instruction was given in field geology and
hydraulic measurements. The geological work included some stiff tramps
across country with Professor Barton. The evidences of ice action were
studied both in the general configuration of the country, and in the details
of scarring and polishing. Attention was called to the nature and relation
of the outcropping strata, and many excellent mineralogical specimens
secured. The hydraulic work included the taking and location by sextant of
soundings upon the lake, gauging of the flow of Sugar River by floats and
several types of current meters, and the rating of the meters on the still
waters of the lake. An additional feature was the running of a short road
traverse, using a very simple form of plane-table, the table being oriented
entirely by compass, and the distances measured by counting revolutions of
a carriage wheel. The entire area
mapped on the plane-table sheets
was a little over one square mile,
the scale being 1-5000.
The chief amusement of the party
during spare hours of daylight was
baseball, an excellent opportunity for
which was offered by a large field
in front of the hotel. On the last Saturday of our stay, the party chartered a
coach and drove to Newport, a nearby town, to play a game with a local
team. We celebrated with a will after the game but it was in spite of the score rather than because of it.

The lake of course offered excellent opportunities for fishing, boating and swimming, which were fully enjoyed and appreciated.

Finally, a word should be said in appreciation of the instructors, and especially of Mr. George L. Hosmer, who had charge of the school. His management was marked by fine tact and perfect control together with the best of good fellowship between instructors and students: indeed this spirit of camaraderie was a most important part of the pleasure of the school.
The Summer School of Mining Engineering

The Mining Engineering Summer School of 1900 left Boston on June 8, for Dover, N. J. The party consisted of fifteen students in charge of Professor Richards, who was aided by Mr. Watts of the Civil Engineering and Mr. Walker of the Mining Engineering departments. After several amusing adventures the party arrived in Dover, and was quartered at two hotels, the Mansion House and the Park. Early Monday morning the party started for Port Oran, N. J., where the Thomas Iron Co's mine and furnace were studied, as were also the boilers, engines, and machinery used for compressing air and for hoisting purposes. A survey was made in one level of the mine and notes were taken on the dip and strike of the vein, character of the country, rock, etc. At Hibernia, the Hibernia, Beech Glen and Andover Mines, and the Ball-Norton magnetic concentrating works were next visited. The Andover mine was the deepest and wettest mine met with, the water in some places coming from the roof in large quantities. On the fourteenth, the Edison concentrating works at Edison, New Jersey, were studied. These works were the most interesting of any visited during the trip. Mr. Edison himself showed the party about the plant, taking great pains in pointing out and explaining the more important machinery used in his so-called "Magnetic Concentrating." The ore used is quarried in open workings and contains about twenty per cent iron, which at the completion of the Edison process contains about sixty-six per cent. Mr. Edison added a great deal to the pleasure of the day by entertaining the party at dinner at
the "White House" that noon. The party left Dover at seven o'clock on
the morning of the fifteenth, arriving at Pottsville, Penn., after a delightful
ride through New Jersey and the mountainous eastern portion of Pennsyl-
vania. Here, Hotel Allan was the headquarters of the party, for which one
wing of the top floor had been reserved.
The following day, mine drawings of the
Philadelphia and Reading Coal Company
were inspected by the party preliminary
to a study of the mine on the following
Monday. An inspection of the methods
of coal mining was made at the Com-
pny's mine in Mahanoy City, the coal
being followed from the mine, through
the breaker and to the cars for shipment.

On the morning of the twentieth, Pottsville was vacated for Bethlehem,
where the Eagle Hotel sheltered the party during the remainder of the
Summer School. The twenty-first and twenty-second were spent in studying
the processes of working and washing ore at the Ironton hematite mine
and the manufacture of cement at the works of the American and Coplay
Cement Company. A short visit was made to the New Jersey Zinc Works
of South Bethlehem, where a study was made of the methods of abstracting
metallic zinc from its ores and the utilization of the waste product of the
process. The work of the Summer School ended with a visit to the plant of
the Bethlehem Steel Company. Here the making of big guns was followed
from the drawing of the newly made steel from the open hearth furnace to
the final turning down of the barrels on the large engine lathes of the
machine shops.

In conclusion it might be said that the unanimous opinion of those who
accompanied Professor Richards, was to the effect that the Summer School
of 1900 had been a "great success." This success was due, for the greater
part, to the untiring efforts of Professor Richards, who arranged and carried
out a most interesting and instructive itinerary.
The Institute's Exhibit at the Paris Exposition

The Institute of Technology was notified by Mr. H. J. Rogers, United States Director of Education and Social Economy, during the summer of 1899, that the United States Government invited the Institute of Technology and Cornell University to exhibit the Architectural and Engineering standards attained by the scientific schools of the United States, at the International Exposition to be held at Paris in 1900. The Institute accepted this invitation and a committee consisting of Professors Chandler, Despradelle, Burton, Merrill, and Dr. Tyler, was appointed to direct the preparation of the exhibit. Ex-President Crafts acted as chairman of this committee. Besides the large amount of labor necessary for the preparation of exhibits of this sort, an unusual amount of work and care devolved upon the committee in this case because of the fact that only a very limited amount of space in the Exposition was placed at its disposal. It was essential not only to select the best material but also to select it of such a character that it might conveniently and appropriately fill its allotted position. Hence the arrangement of departmental work for the most advantageous display under these conditions presented many unforeseen difficulties.

The expense incidental to the conveyance and installation of the exhibit was borne by the United States Government. Other expenses, however, to the amount of one thousand dollars, were met by the Institute. Specific instructions concerning the arrangement of the exhibit accompanied it. In the case of the architectural part, these instructions were forwarded to Paris by the following excellent method: The dimensions of the space provided for it were sent to Professor Despradelle, who arranged the drawings in a similar space in the Architectural department of the Institute. A photograph of this display was taken and forwarded to Paris. The arrangement thus shown was actually duplicated when the drawings were placed in position. The installation of the whole exhibit was under the personal direction of Messrs.
A. D. Fuller, C. D. Farquahr, W. D. Coolidge, and G. K. Burgess, all Institute Alumni. The exhibit itself was prominently situated in the educational section of the gallery of the Engineering Building. The engineering display is shown in the accompanying illustration. Below the handsome and prominent tablet in the photograph are three wing frames. On the outside of the right hand frame are printed the thirteen courses given at the Institute and a colored map of the United States showing the geographical distribution of the students. The inner leaves of this frame contain photographs of the carpenter shops, mining and metallurgical laboratories, chemical laboratories and lecture rooms, and testing and experimental laboratories. There is a map in colors showing the location of the different Institute buildings on the outside of the middle frame. The inside leaves contain photographs of the interior of the Engineering Building, among which are the machinery departments showing various metal, beam, and rope tests. On the outside of the left hand wing-frame is a list of the graduate and local societies, also a map in colors showing the geographical distribution of Institute graduates. Directly above these frames are various samples of metal tests. Just below, on the back portion of the table, are pieces of metal also showing the results of tests. On the table and on the shelves beneath are folio volumes, samples of beam tests, and catalogues and pamphlets relating to the Institute. These folio volumes contain Civil Engineering thesis drawings, Naval Architectural drawings, Civil and Mechanical Engineering designs and drawings, and tests in the engineering laboratories.

The Architectural exhibit was contained in several large oak panels handsomely mounted and placed on the outside of the booth in which the Engineering exhibit was located. This was not only a place of distinction, but also one in which the drawings were most likely to be seen by the passers-by. The drawings themselves were exceedingly well arranged by grades and classes. Among them were freehand drawings by J. F. Clapp and G. M. Gale, and sketches by F. R. Walker and W. T. Aldrich. L. R. Henrick’s drawing, “Glass in Rendering,” represented second year work. The third year drawings included “Study of a Loggia” by C. Werner, “Entrance to a Pantheon as seen under Peristyle” by J. N. Beekman, and “A Loggia” by

In comparison with similar exhibits made by the United States and foreign countries, that of the Institute ranks very high. As previously stated Cornell University was the only other Institution in the United States chosen to represent the standing of the United States along these lines. Cornell made no exhibit of architecture and her showing in the engineering departments was less prominent, less in quantity, and certainly of no higher standard than that made by the Institute. Comparison with the exhibits of similar departments of the more important foreign countries is extremely difficult, as each country had its own form of classification and display. The excellence of their standards as shown by their exhibits corresponded to a great extent with their degree of civilization and general superiority. With these points in mind, the engineering display made by Japan was marvelous, that of Russia surprising in its excellence, that of Great Britain a disappointment, and the exhibits of Belgium, Italy, and Hungary interesting but not in any way extraordinary. Unfortunately Germany was not represented in this department, but would undoubtedly have made a creditable showing had she done so. As further evidence of the favorable comparison of the Institute exhibit, four awards have been given to various parts of it; one Grand Prix, two gold medals, and a silver medal.

Compared with the exhibits that the Institute has made at former expositions, the one in question stands second only to that made at the World's Fair at Chicago in 1893, which contained the most elaborate and expensive exhibit ever made by M. I. T. The expense incurred was in the neighborhood of ten thousand dollars. Previous to this one, smaller exhibits were made at the Exposition at Paris in 1889 and at the "Centennial" at Philadelphia in 1876.
In conclusion, it may be said that in accepting the invitation to send an exhibit to the Paris Exposition, the Institute assumed heavy responsibilities in that it was expected to prepare an exhibit, the excellence of which could be attained by no other scientific school in the United States. That M. I. T. lived up to its obligations is proven by the four above mentioned rewards. Great credit is due those who so ably assisted in the preparation and installation of the exhibit, especially because of the already mentioned difficulties with which they had to contend. The Institute is undoubtedly amply repaid for the expenditure of labor and money necessary for the preparation of such a display, and we are quite sure that the United States Government has made no mistake in conferring upon the Institute of Technology the honor of being the Technical Institution most advanced in Engineering and Architecture in the United States.
"JUST WALK INTO MY ALPHABET," SAID THE JUNIOR TO THE PROF., "AND I'LL MAKE YOU SO IMMORTAL THAT YOU'LL WISH YOUD BEEN LET OFF."
A is for Arlo—that wise man and rare—
Whose gestures embellish his cynical air
Lending charm to the picture for Allen to share.

B is for Bardwell, who'll kindly explain
The acid reaction all over again;
But to Burton and Barton, he's speaking in vain.

C is for Currier, looking resigned,
Reciting E. Hist. to beat four of a kind;
Poor Crosby and Chandler— he's talking them blind.

D is for Dana, who tries to beguile
Dippy, Deppy and Dewey with his cold-storage smile.
But we cannot see why he should think it worth while.
E is for Erhardt, that amorous youth,  
He's with the Professors — and happy, forsooth,  
And they? — but 'tis kindest to hold back the truth.

F is for Faunce—the considerate Linus—  
Who calmly in side-boards proceeds to confine us,  
Which means that in flunks he at last will entwine us.

G is for Getty who gaily provides  
A story for Goodwin — while Gill holds his sides  
As he laughs at the story which Getty confides.

H is for Hofman who dwells underground,  
Where fumes and explosions and coal-bins abound.  
Where Course III was founded, there Hofman is found.
I is for "Harry"—omnipotent I—
Whose presence inspires a reverence 
high
In Professor and Sophomore, equally shy.

J is for Jerome,—who so slyly avoids 
J. J. Skinner's elliptical paraboloids.

K is for Knight; thinking speed doesn't 
pay.
He tries to make up for time lost to-day, 
By twisting the hands of the clock the 
wrong way.

L is for Lawrence: by way of a jest 
He puts Lodge in perspective by 
special request; 
But the Laws he is using will not stand 
the test.
M is for Miller who plays with his train,
And Merrill as well, who refreshes his brain
By returning to pastimes of childhood again.

N is for Grandfather Niles,—as you know,—
After telling that pebbles aren't made out of snow,
Shows also that rocks aren't constructed of dough.

O is for Osborne,—to whom there is due
Deepest praise; for he gives us, with prophecy true,
Just before the exams,—a most valuable Q.

P is for Pearson and Peabody too;
Poor Peabo with formulæ sadly askew,
Sticks Pearson with work he's unable to do.
R stands for Robert H. Richards, so grim,
And also for Rambeau who fences with vim;
Richards' chances (unlike his opponent) are slim.

S is for Sedgwick, Swain, Sumner and Schwamb:
They play fearsome foursomes in sunshine and storm;
And frequently mention—a place that is warm.

T is for Tommy and Talbot likewise,
Their experiments set us to rubbing our eyes.
They're chemists perhaps—but they're both in disguise.

U indicates "You" the Profs. we've omitted.
Don't cry,—surely you're not the ones to be pitied.
V is for Vogel whose Dutch we surmise,
Causes the Sphinx, that old quadruped wise,
To exhibit perplexity, pain, and surprise.

W is for Woodbridge, whose copious notes
So voluminous are, that no doubt he devotes
Ninety sheets to each theory that he promotes.

X stands for Cross; we see him expound
Electrical formula very profound.
Without knowing why, we believe they are sound.

Y is for "wise" man—but no single Prof.
Comes under that head; and that's "Y" it's left off.

Z we must double, to make the last stanza.
So we W., Z.: and have Ripley—he'll answer,
And bring to a finish our extravaganza.
To Walker Building

The architecture of all times
Is sung in countless fervid rhymes;
But 'tis reserved until to-day
The praise most merited, to pay.
Well may this poem itself inspire:
Our pen itself may be our lyre!

Sing, Of all our fairest lays,
This one, most fair, is in your praise,
Oh, Architectural Masterpiece!
We think of Egypt — and of Greece,
Of Rome — where all in Art most fair is,—
Constantinople, and of Paris,—
And then, to cap the sequence true,
We, Walker Building, think of you!

The massive strength that Egypt speaks,
The grace and beauty of the Greeks,
The power and splendor sought in Rome,
The Oriental arch and dome,
The Gothic harmony of France,
All graceful forms, by Fate or Chance,
But led the way and lent a share
To you, — Oh, Pile beyond compare!

Some three score centuries ago,
This evolution started. Slow,
Through every age, its course has run
And constantly improvement won;
Till now — Oh, favored Copley Square —
Perfection is established there!
Oh, Architecture, triumph know:
Oh, peerless Walker Building — Oh.
Quotations

"Raillery, raillery, madam, we have no animosity—we hit off a little wit now and then, but no animosity."

"Then indeed, he would glare upon us from the thick shrubbery of his meditations like a tiger out of a jungle."—Prof. Sondericker.

"A daughter of the gods, divinely tall,
And most divinely fair."—Bartlett, '02.

"A deed without a name."
—"Love in a Cloud,"
by Arlo Bates.

"A joke's a very serious thing."—Prof. Lanza.

"The time is out of joint."—Gymnasium Clock.

"Are these things then necessities?"—Clapp, '02.

"Ostentatiously illogical and defiantly inconsistent."—The Tech Editorial.

"Why God should e'en permit such things to be."—Physics.

"I do profess to be no less than I seem to be."—Emerson, '04.

"On sight more gorgeous never sun looked down."—Seaver, '01.

"Many things are now growing clear to my understanding."—Burton Clark, '00.
"It could bark." — Hunter, '02.

"Is this a book for a young person?" — Applied.

"With a lullaby sound." — Freshman Band.

"Infinite riches in little room." — Trophy Room.

"I cannot look upon it without shedding tears." — Prof. Despradelle and the Walker Building.

"A very shower of beauty is thy earthly dower." — Goodwin, '04.

"Dilute a minimum of thought in five hundred pages of nauseous phraseology and for the rest trust to the [Freshman] patience of the reader." — Remsen's Chemistry.

"Faith thou hast some crotchets in thy head now." — H. N. Hudson, '02.

"Can any mortal mixture of earth's mould
Breathe such divine enchanting ravishment?" — Miss Dexter.

"Now I can hold out here no longer,
Place me in a different posture." — Setting-up exercises in drill.

"It isn't what he says, but the cutting way he says it." — M. DeK. Thompson.

"It will be but a momentary pang." — Test in Descrip.

"Deeper than e'er plummet sounded." — The Lounger.

"Two lovely berries moulded on one stem." — Bug Harris and Doggie Brown, '02.
"And as I am glad to say that I do now recognize that I shall not become a great man, I may set myself peacefully on a smaller journey, not without hope of coming to the inn before night-fall." — P. G. L. Hilsen.

"Speak, speak, thou fearful guest!" — Semi-annual report.

"One of the few, the immortal names, That were not born to die." — C. H. L. N. Bernard.

"God made but one casting from this mould. One was enough." — Mullaly, '02.

"I have no wish to believe on that subject." — Polarized Light.

"How sweet it is to rest." — Blythe, '02.

"For Heaven's sake, let us sit upon the ground, And tell sad stories of the death of Kings." — Course IX.

"Truly, I would the gods had made thee poetical." — Arlo.

"By a route obscure and lonely." — To the Shops.

"I have an eye for she that's fair." — Glover, '01.

"It is a crystallized paralogism, an abracadabra, a puff of bombast, and a wish wash of phrases which, in its monstrous construction, compels the mind to form impossible contradictions." — Thermo.

"With thee conversing, I forget all time." — Blaggett, '02.

"Like something fashioned in a dream." — Wertheimer, '03.
"When I had spoken half an hour, I had told them everything I knew in the world." — Prof. Sedgwick.

"You do not believe; you only believe that you believe." — The "elastic arch" in "Applied."

"How green you are and fresh." — Pell, '03.

"'Tis a most unmitigated mistake." — 1903 Electoral Committee.

"Which is as thin of substance as the air." — L'Avenir and Die Gesellschaft.

"What harmony is this? Good, my friends, hark!"
— Y. M. C. A. Meeting in Rogers.

"Angels are painted fair to look like you." — R. V. Brown, '02.

"Of whiteness so beset:
War visaged thing! thy virgin leaf
For me looks more than deadly pale,
Unknowing what may stain thee yet,—
A Credit or a Fail." — Examination Papers.

"A snapper up of unconsidered trifles." — Prof. W. H. Lawrence.

"An aching void." — Stanley Sears, '00.

"A heterogeneous mass of clotted bosh." — "Notes on Metallurgy of Iron."

"The rest is silence." — After an FF.

"Salt of the earth,
ye virtuous few." — Institute Committee.

"It is small, very small indeed." — Fisher, '02.
"'T was one of those dreams." — The Tech Cover.

"He was in logic a great critic, Profoundly skilled in analytic, He could distinguish and divide A hair, twixt south and south-west side."
— Chas. Tolman, ’02.

"What though the name be old and oft repeated?"
— Corp. Bailey.

"Relentless power! whose fatal stroke O'er wretched man prevails." — Dr. Tyler.

"Ah, that's the great puzzle!" — Prof. Pearson's Handwriting.

"Vanité des vanités, tout la vanité!" — Magrane, ’02.

"Gentle dulness ever loves a joke." — Prof. Richards.

"And melancholy marked him for her own." — "Phosphorus" Burns.

"I hear in the chamber above me, The patter of little feet."
— "Under Getty's Room" in Engineering A.

"The inconvenience or the beauty of the blush; which is the greater?" — Mr. Carter.

"His very presence stunts conversation." — Green, ’02.

"We bear it calmly, though a ponderous woe." — Military Drill.

"Observe my ease or manner, and match it if you can." — McIntosh, ’03.
"She was a sweet little damsel of twenty." — J. M. Baker, ’02.

"My life which was so straight and plain."
— N. L. Danforth, ’01.

"Formed in the prodigality of nature." — Prof. Niles.

"Most glorious (k)night:
Thou wert not sent for slumber."
— A. M. Knight, Bursar.

"For of such is the kingdom of heaven." — Tech Co-eds.


"I celebrate myself, and sing myself,
And what I assume, you shall assume." — Nash, ’02.

"Ye gods and little fishes." — Seniors and Freshmen.

"For every ‘why’ he had a ‘wherefore.’" — Schwartz, ’02.

"And what is writ is writ;
Would it were worthier." — Exam. in Heat.

"And whatsoever else shall hap tonight,
Give it an understanding but no tongue." — Yacht Club Dinner.

"Dost thou think that I care for a satire or an epigram?" — Prof. Cross.

"What shall I do to be forever known?" — Bridges, ’03.

"Pours on mortals a beautiful disdain." — Kellogg, ’02.

"Zed, thou unnecessary letter." — From H. W. T.
BREECHES BUOY IN SKIRTS.

The Feelings of Boston Women Must Be Respected.

[From the Marine Journal]

Boston sentiment, as reflected in cultured circles, has always set in strong against the breeches buoy. As a life saving apparatus the breeches buoy has its strong points, but there is a lack of modesty about its operations that has often brought the blush of shame to the cheek of beauty on the Massachusetts coast.

We are gratified beyond measure, therefore, to record that Prof. Peabody of the Massachusetts Institute of Technology, and the board of life saving experts of which he is president, have taken steps to veil the immodesty of the breeches buoy. At the last meeting of the board it was recommended that a canvas bag skirt be furnished all stations, to be used hereafter in taking women ashore from shipwrecks. Whether the skirt is to be frounced, hang plain, or "bell-shaped," is not stated. The garment is not intended to take the place of the breeches buoy, though heaven knows the cause of morality and good government would be greatly advanced if anything were devised to supersede it. Therefore, the bag will be continued in use, shocking as the thought is, but the canvas skirt will encircle both the b—s and the woman, and although the former seizes the chaste limbs of the latter with all the familiarity of an old friend, the whole world may not look on and snicker.

This is a great and noble thought, and does immense credit to the head and heart of Prof. Peabody and his associates. The feelings of a Boston woman cannot be too much respected. They are tender and easily wounded.

Prof. Peabody and his considerate associates deserve the thanks of Boston women yet unborn.

THE SPH

JUDGES
A HISTORY
of the
Massachusetts Institute
of Technology;
Ye Same Being A Collection of Many Elegant &
Artistic REPRESENTATIONS of Ye SCHOOL, Its
Teachers & Its Works, Reproduced with Great & Surpassing
FIDELITY,
For the First Time Brought Together by Ye EDITORS of Technique

A Meetynge of Ye Faculty, Ao. Di. 1725.

To Which Is Added A Brief Historical Sketch
Nec citò crèdidēris ; quantum citò crèdēre lœdat
Exemplum vobis, non leve, Procul erit.

M D C C C C I
FOREWORD

THE Editors of Technique have lately come into possession of several engravings illustrative of the history of the Institute, and, feeling that such examples of interest should not perish, have here placed them before the readers of Technique, supplemented by this explanatory but brief historical sketch.

When the Institute started, it was by no means the pretentious institution that it is to-day. As we may see, by looking at the first elegant representation, the first home of Technology was indeed humble, and wanting in architectural grandeur such as we have with us now.* It was founded in 1603 in Boston, antedating the arrival of the Pilgrims, and the Faculty first consisted of Professors Wm. H. Niles, H. W. Tyler, Arlo Bates and Mr. Albert M. Knight, the latter acting for several years as President, Secretary, Bursar and Librarian. In its earliest days the Institute offered only three courses: English [or French.] in charge of Professor Bates; Mineralogy, in charge of Professor Niles, and Mechanical Engineering, in charge of Professor Tyler. Later, in 1663, the Biological course was created, with Dr. Tyler at its head. On the title page is given an admirable picture of the Faculty meeting in 1725. In the year 1775, owing to the pressure of military affairs in this country, a battalion was formed in the Institute, with Mr. Knight as Drill Master. In this picture we have an interesting and unique view of Corporal Bailey and the Battalion, together with the three Institute buildings, Rogers, Walker and Pierce. The school at this time numbered three thousand students, and possessed a corps of six professors and forty-seven instructors. In 1793 Henry P. Talbot was made Professor of Chemistry, and in three years from that date Professor Despradelde was installed as Professor of Architecture. In 1825 the Lunch Room was added; in 1829 The Tech was instituted, and in 1833 the Y. M. C. A. organized. Since that date, with the exception of Dr. Wendell’s becoming Professor in 1867, the Faculty has suffered little change. At present, Technology’s status is seen by the engraving on page 272, a view looking from the Cambridge side of the Charles River. The examples of students’ work given on the last page will impress the reader, the most notable performance being, perhaps, the thesis drawing of Professor Despradelde made in 1785. The whole series of pictures is remarkable, evincing a rapid and solid development all along the line, and the editors feel sure that as an historical group, they cannot easily be duplicated.

* The Gymnasiunm and the Walker Building.
Historical Technology

The Mercantile Library Building in 1603 — Reception to Professor Osborne

Corporal Bailey and the Institute in 1775
View from the Cambridge Side of the Charles

A. M. Knight in 1630

Wm. H. Niles in 1645
D. Despradelle's Thesis Drawing, 1796


A Memoir by Professor Sedgwick, 1835

5th year Architectural Design, 1889
A Page of PAR ODIE S: with Apologies to T. B. A.

Identity

Somewhere — in desolate wind-swept space,
  In twilight land — in no-man’s land,
  Two infant shapes met face to face,
  And took each other’s hand.

“Why, who is ’oo?’” cried one, her face
  A wonder-light adorning;
“Don’t know,” the answer came apace,
“’I shan’t be born till morning.’”

An Untimely Thought

I wonder what day of the week,
  I wonder what day of the year,
Will it be Mary or will it be Sue,
  And who’ll at the wedding appear?

What an untimely thought, to be sure,
  As I sit in my bachelor den,
And await the arrival of Joe
  And the rest of the bachelor ten.

“Hello, Joe! Dear fellow you’re late!
  A lady it is, I declare!
What — ‘Never’? — by Jove, that is good,
  We never will marry, I swear!’”

And so all is laughing and light
  As we taste of the rarebit and beer,
But — I wonder what day of the week,
  I wonder what month of the year.
To Blachstein

Immortal Blachstein, what a mighty power
Have thy keen jests to speed the lagging hour.
How Albright quivers with delight to hear
That not at "all bright" does his work appear;
And Leavitt, cheerful soul, when cares abound,
And puzzling syntax hedges him around,
Look how he shouts and gleeful claps his hands
When he is told to "leave it" as it stands.
How Finer grins, on learning, o'er and o'er,
His passage was no "finer" than before;
And Crowell, laughing, hugs himself on knowing
He should not "crow well" over such a showing.
Thy jests, O jester of the newer time,
Are told in prose and sung in so-called rhyme.
O'er all the continent, men think of thee
At the mere mention of the M. I. T.
Still unto man doth man in wonder tell
How thy great wit on earth doth deign to dwell;
And, as in ancient times, the wonder grows
That thy small head can carry all it knows.
Whence drawest thou thy mighty fund of lore?
Doth instinct prompt and memory furnish more?
Or, wise in foresight, hast thou but to look,
At stated periods, in thy little book?

The Sophomore's Lament; or, A Song of Physics

The length of Boylston Street is great,
The length indeed is long,
But it doesn't hold a candle to
The length of Charlie's song.
For Charlie is a singer,
And a wonderous song he sings,
But the length thereof can't be compared
To the misery it brings.
He talks at length on many themes,
Or sings — as is his wont;
But the things he says you understand
Are nil to those you don't.
Such is the substance of his song,
Which none can comprehend,
So in a double F, I fear,
My Physics Course will end.
A Cycle of Song

A dog who was jolly and fat
Lost his tail in a fox-hunter's trap.
Though tail-less and maimed,
With a laugh he exclaimed,
"Well, a wag is a wag, for a' that!"

A man once had pains in his head,
Pains that filled him with horror and dread:
One night he drank deep
Of a drug causing sleep,
And when he woke up, he was dead.

A deeply religious young clam
Thought it wrong to ejaculate "damn!"
But quick as a flash,
He would "holler" out "D—ash!"
And would murmur, "How darned good I am."

By a bon-fire, a thoughtful jack-daw
Meditatively looked at his claw;
Then, shaking his head,
Philosophically said,
"I suppose 'twill be just as well raw."

A Harvard philosopher, Royce,
Has a somnambulistic voice:
But at night he's inclined
To an absence of mind,
So he never wakes up at the noise.

Said Sherman (I think), "War is Hell!"
Said a turtle who heard him, "Do tell!"
You're as rude as can be;
And I know you mean me
For I'm 'sho't' and I'm nearly all 'shell'!

Up the street I was rushing, pell-mell,
Struck some ice, took a slider, — and fell,—
And I thought, "'twould be nice
To be where there's no ice!"
And a small voice piped up, "Go to Hell!"
The "Doing" of a Freshman

When Teddy Freshman left his home to take a course at Tech,
His father said in parting, "Now my son, here is a check;
And as the sum therein is large, I feel that it is clear,
If you are economical, 'twill last you half a year."

But when our Teddy got to Tech, he very shortly found,
That calls to dissipate his wealth were clustered thick around:
For every Prof. had writ a book which Teddy had to buy,—
And if the Prof. was very wise,—the price was very high.

At thought of drawing instruments our Teddy's heart did stop
On reading in a circular put out by the Co-op,
That for a future engineer 'twas wisdom to invest
In Alteneder instruments, all guaranteed the best.

And further down the circular he read with many groans
That T-square, boards and triangles would cost him extra "bones,"
And that a second set of these was needed for the farce
Which Teddy learned in future was the course in "Primary Marse."

Thus Ridler and Maclachlan did the worst that they could do;
And then the students thought 'twas time to have their innings, too:—
So Teddy straightway was assailed from numerous directions,
And had no peace till he'd subscribed to various collections.

He helped to run the football teams,—both Varsity and Class;
He paid his Class Assessment up, and then,—alack, alas!
To crown all other wicked "soaks" that "hit him in the neck,"
They fleeced him of two dollars for a ticket for The Tech.

And then upon the top of this as climax to the storm,
A Sophomore, both big and bold, sold him a uniform:
"'Tt fitted fine; 'twas good as new; 'twas scarcely used at all;
And just twelve dollars would obtain the leggins, gloves and all."'

So Teddy quickly purchased it and when his purse was tapped
There wasn't any residue: for Teddy now was strapped.
Imagine next, poor Pa's surprise on learning that his son,
Whom he'd sent off three days before, was now in need of "mon."
The letter that this Pa received was rather brief,—it said:—
"Dear Pa,
I'm bust completely. Please send money to your,
Ted."

278
Ode Descriptive of Descrip

Damned creation, Child of Satan's breath,
To live with thee were doubly worse than Death.
Thou soul of Torture, Thou forever cursed,
Woe to the hour when I knew thee first.
Burned in my memory as with living flame
Lives the sad image of that hour of shame,
When, dead to Reason, yielding to thy sway,
I signed, and, signing, signed my life away.

Oft in my dreams, by rash indulgence tossed,
I live again with the Eternal Lost,
Join in their sighs, their groans, their hopeless tears,
Their never-answered prayers, their ceaseless fears.
In one small dungeon, high aloft in air,
Thrice doubly barred they are, in deep despair;
And though the heavens stretch above them grandly high.
They look on earth and never see the sky.
With trembling hands they labor sad and slow,
Inscribe on paper what they do not know.
Ah, sorry sight, as, hollow-eyed and pale,
They strive forever, and forever fail.
Thus into H they ceaselessly revolve,
Even as the diagrams they seek to solve,
Until the glad release of Death they find
And disappear, nor leave one trace behind;
Crying in awful tones, with dying lip,
"The root of all things evil is Descrip!"
MR. BURRISON'S DINNER

[OWING to the loss of a portion of the reporter's MS, only a partial account of this occasion can be presented. The accompanying group picture is from a flashlight. — Editor's Note.]

MR. BURRISON (rising amid cheers): — “Gentlemen you overwhelm me. I really don’t know what to say. I paid thirty cents to have my picture in Technique. I always like to please the boys. They’re getting out a good book (bisses) this year; perhaps my assistant at the other end of the table doesn’t agree. Well, I’m not much of a speaker. I give you this toast: Here’s to the Prof. that likes to help the boys! (They drink. Linus chokes, but recovers himself on being slapped on the back. Gries of “Faunce!” “Faunce!”)

Linus: — “It ain’t true! It don’t make any difference what Burrison says. Technique is an extravagant, ungentlemanly and useless publication. It don’t treat a man fair. I notice that Prof. Hofman don’t like what I say. I’ll have to ask him to leave the table if he persists. I—”

Prof. Sedgwick (toastmaster): — “Gentlemen and fellow Professors: It seems to me hardly worth while to waste so much time over such an inconsequential affair as Technique (Prof. Faunce sits down). Let me call your attention to something more vital. Right about us we have things to learn from. Take, for example, a glass of milk. Will Professor Chandler kindly pass over his glass? Ah, thank you. Here is a glass of milk. Consider the number of microbes it contains. What a complicated mass of seething life and death! Three million and five microbes to the cubic inch? And yet we drink it (drinks milk)” —

Prof. Chandler: — “Hol’ on there — that’s my milk!”

Prof. Sedgwick (continuing): — “Why do we drink it? Does this show an
overruling Providence? Who knows? And after all what do we know?"
(Cheers.)

Prof. Pope (takes Sedgwick's glass): — "I have here the remains of a glass
of milk — some ordinary C₁₆ Ḥ₃₂ O₇ of a white or bluish odor. Let me de-
monstrate a demonstration. I have here, also, some hard cider. I will pour
upon the milk some cider. In the absence of my assistant I will ask Prof.
Dewey to perform the experiment as it is rather dangerous (applause). Im-
mediately a precipitate is formed. It is all up with the milk. The solution has
now a colorless red tone (cheers).

Prof. Sedgwick: — "Perhaps Prof. Chandler can tell us something about
his trip abroad."

Prof. Chandler: — "Eh — why certainly. My trip abroad — nothing
would suit me better — aha — seems real good to be here to-night, fellows,
doesn't it? Yes. Here's Mrs. King as genial as — I don't see Despradelle
here this — oh, by the way, now that I think of it I want to read you — this
thing here is a little what you may call it by Mr. Despra — pretty good
thing — this is how it — a little poem y' know:"

—

Je regret que je cannot be with you,
Tout ensemble pour enjoy là bas;
Ah ! j'ost si je seulement could see you
Comme cela, comme cela, comme cela!

Pourquoi do you eat dans sooch places,
Where mangeont les "grinds" — s'appelle "greasy."
Et peuple sont crowding around you,
C'la ici, C'la ici, C'la ici?

Au café français now you should go,
Quand bien you would vouloir à manger,
Et refreshe par ce lunch, you can vivement
Travaillez, travaillez, travaillez!
Grinds

WHY ONE MAN "FLUNKED" HIS COURSE

On'ct ther' wuz a lad at Tech
An' he studied mor'n hard,
An' hit exams right in the neck:
None tuk him off'n his guard.

Technique arrove, an' out it cum
("T is sad, I almos' cried,)
He tuk the book straight to his hum
An' laffed, an' laffed, until he died.

JUST SO

Blackie: — "Mr. Randall, will you translate the sentence beginning
'Der Donner giebt uns' and so on."
Randall: — "Thunder!"

INCOMPATIBLE

Prof. Woodbridge: — "He was not an engineer-er-he was a thorough
scholar."

LORD KELVIN REJUVENATED

Prof. Peabody (in Thermo, pointing to diagram on the blackboard):
— "Whose work is this?"
Kellogg, '02 (who drew the diagram): — "That's Lord Kelvin's
method, Sir."

284
NEARSIGHTEDNESS, ABSENTMINDEDNESS OR STUPIDITY

A One-Act Farce

Place: — [Railroad Management Lecture.]

Time: — [About the middle of the first term and half past the hour.]

Enter [through door] Corporal Bailey. [Started to take a seat. Becomes suspicious and enquires of Prof. Allen — ]

"Is this Prof. Porter's lecture on Hydraulics?"

Prof. Allen: — "I have every reason to believe, Mr. Bailey, that it is not."

[Exit the Corporal.]

Prof. Allen [to class]: — "It would seem as if he ought to be able to distinguish me from Prof. Porter by this time."

[Curtain]

NO USE IN KEEPING IT

Freshman (rushing wildly into Prof. Pope's sanctum): — "Oh, Professor Pope, I've just swallowed some potassium cyanide."

Prof. Pope (calmly): — "Spit it out."

THE TRUTH, THE WHOLE TRUTH, ETC.

Charlie Cross (in Physics): — "I wish to state to you now some facts about ether, both facts which we know and which we do not know."

Blackie's most dangerous Weapons
FOOLS RUSH IN, ETC.

*Messenger boy to Mr. Howard Clark Plummer, in the Mining Lab.*: *“Hey, Charlie, where can I get me face washed?”*

EVERY LITTLE HELPS

*Baker, '03* (height, 4 feet, 6 inches) was caught looking at this sign.

GOOD

*W. N. Brown, '02* (in Theoretical Electricity): *“Velocity = Space × Distance.”*

HARVARD, '03, 30; TECH, '03, 12.

The Harvard Freshmen defeated the Tech Freshmen yesterday, 30 to 12, in a seven-inning game that would have filled the average street niner with shame. The Tech Freshmen made 12 errors and played something that looked like a basket ball game at Radcliffe. The score:

Harvard, '03.............. 0 5 2 7 1 5 4–30
M. I T., '03.............. 1 0 0 1 7 3 1–12

THE CATCHER CAUGHT

*Prof. Faunce* (to Mr. Burrison): *“Burrie, my boy, why are the fellows we drop from Descrip like bad eggs?”*

*Burrie:* *“That’s easy. It’s because they make such an awful mess when they fall.”*

COMING FROM “SONDY” TOO

*“Three legs are necessary to support a load.”*

IN FRENCH CLASS

*Stowe, '02:* *“Yes, I have been over the lesson.”*

*Mr. Dyke:* *“You should go under it too.”*

*Gardner, '02:* *“He’s under it now.”*
KEEP THEM ON

_Freshman to Mr. Wells (in Secretary's office):—“Can you tell me where the place to hang our hats is?’”

OH, MISTER HAYWOOD!

_Mr. H. W. Hayward (to Co-ed in Course II):—“May I borrow your waste for a minute?”

WHY DOESN'T IT?

_When Charlie says, “I'll try and show,”
_He ought to say, “Try to;”
_And when he says, “Now this don't prove,”
_We wonder if “it do.”

WHICH DID HE MEAN?

_Cates, '02 (who has stepped on a hot coal in the Mining Lab.):—

“_________”

_Prof. Lodge:—“Don't get nervous, Mr. Cates. Better handle 'em with gloves.”

IS IT POSSIBLE?

_Dr. Wendell (explaining the theory of sound):—“So when we have the apparatus this way we have silence coming out of the tube.”

STRAINS

C. R. Cross, '70: — "This lamp has driven all others out of the market — because there are no others in the market."

HARRY T. MIGHT KNOW

Freshman (to Y. M. C. A. man at the Information Bureau): — "Can you tell me where the principal is?"

TRUE, NO DOUBT

Harry Clifford: "What is the 'Cryohydrate'?

Kimball, '02: — "It is the lowest point you can go without going any farther."

HE BIT

Kern, '02 (reminiscing "Old Kentucky" with Sammy Mead): — "But I don't believe, Mr. Mead, you can get any of that good old corn whiskey in this part of the country."

Sammy (convincingly): — "Oh, yes you can, lots of it!"

WHAT'S THE USE?

Senior: — "Well, Perk, going to comb your hair this year?"

P. H. Parrock, '01: — "Nope; nothing in it."

SOMETHING NEW UNDER THE SUN

Linus (in lecture): — "We will illustrate with a heptagon — it doesn't matter how many sides it has."
HARD HEADED

Chalifoux, '02 (looking at a "Rand Slugger" rock drill): — "It would take three-quarters of an hour to get that drill through my head."

A NATURAL MISTAKE

Mather, '02 (looking at Pember's face in the Junior Class photograph): — "I wonder who that co-ed is?"

CAN YOU BLAME HIM?

When Harry Clifford said in Heat that he would draw moderately upon the class's knowledge of 2d year Physics, A. T. Church, '02 immediately got up and went out.

f. R. Marvin '02
Dear Sir,

I lost one station, felt hot on the night of the rush. 82 74. Fr out at 00 of stem in front

Very Truly,

J.W. Gooftse
Box 35. City

The above note was recently received by Mr. J. R. Marvin, '02, who replied with all the vehemence of his forceful nature: — "What the —— did he care, he wasn't the pound-keeper."

THE DIFFERENCE

Culp, ex '01 : — "My physician says that rest is advisable, but Harry T. says that rest is an absolute necessity."
ETYMOLOGY

Smith (in 3rd year German): — "I couldn't find 'gelb' in the dictionary."

Blackie: — "You do to look zare not need, Mr. Smiss. See here — 'gelb'; 'b' changes to 'p'; 'g' and 'y' look ze same approximately if written alike. Now we have Y-E-L-P, yelp. What yelps? — Why ze dog, and especially yelps ze yellow dog. So you see we have 'gelb' means 'yellow.' Mr. Smiss, I am afraid we are too superficial in our work."

HE DID, TOO

Dr. Moore (to Course III): — "I have made the examination so that nobody will be able to write much."

VERY IMPORTANT INDEED

Prof. Chandler: — "This construction is used in all important buildings such as stables, etc."

MR. HUNTER,
PLEASE EXPLAIN

It is a wonder that the attention of the police was not called to such indecent exposure.

AND THAT'S NO JEST

Freshie: — "What does Mr. Faunce put his initials on my plates for?"

Soph.: — "It gives a kind of finish to the affair."
YES, WHY WOULDN'T IT?

Prof. Lanza: — "You see, therefore, that in leather belting, the joint which is cemented, is stronger than the belt itself."

Merrill, 'O1: — "Why wouldn't it be a good plan to have the belting all joints, then?"

WOULDN'T THAT JAR YOU?

Arlo (in English Lit.): — "The fight was a very stunning one."

NOT AT MAC'S

Freshman (buying thumbtacks): — "Do you get a discount on these if you have a co-operative ticket?"

A LOYAL DEMOCRAT

I. R. Adams, '02: — "I want a sheet of Whatman's paper."

Boy at Co-op room: — "Imperial, cold pressed?"

I. R. A.: — "No sir! Anti-imperial, hot pressed."

GRACE IN ARCHITECTURE

You hear about the horseshoe bend,
The boast of the engineer.
You hear about the Grecian bend,
Of the stylish stoop you hear.
But these and other paltry bends
Must bow their heads, alack!
T' the boss of billowy, graceful bends,
The bend of Bilyea's back.
HARD ON THE CO-EDS

Prof. Lawrence (explaining the details of the Inauguration): —
"The young ladies at the Institute will sit here and the students-er-the
young men at the Institute, there."

AN ODE

"But if we meet in distant years,
Or on a foreign shore,
I well can take my bible oath,
I've seen that face before."

HIS IDEA OF WEALTH

Prof. Chandler (in Specifications): — "This paper is so brittle
that it breaks up into infinitesimal parts, — not larger than five-cent
pieces."

RATHER A DANGEROUS
UNDERTAKING

Prof. Richards (to class in Mining
Engineering): — "Please divide yourself
into four parts."

"FRINCH"

H. F. Miles, '03: — "Immense! or as the Germans put it,
'Immensee!'"

NOT UNLIKELY

Dr. Wendell (to Marsh, '03): — "Mr. Marsh, what is work?"
R. P. Marsh: — "I don't know, sir."
PECULIAR

Arlo (speaking of his college days): — "I was not so foolish even then."

Track Games Followed by Crack Riding by Members of the Myopia Hunt Club.

[Special Dispatch to the Boston Herald.]

NEWBURYPORT, Sept. 18, 1900. The show ground of the old Newbury Agricultural Association was the mecca of several thousand people this afternoon, it being the opening day of the cattle show and fair of that organization.

The programme of entertainments opened with a list of sports. First there was a bicycle race, which was a close contest between Frank O. Fowle of this city and Charles Howarth of Amesbury, the former winning. In the other sports R. A. Pope was easily the star, and carried off a majority of first prizes. The summary:

- Five-mile bicycle race—Won by F. O. Fowle; Charles Howarth, second; H. W. Eaton, third.
- Hundred-yard dash—Won by Robert Pope; H. Allen, second. Time, 11 1/5.
- Running broad jump—Won by Robert Pope; H. Greene, second. Distance, 18 ft.
- Standing broad jump—Won by Robert Pope; H. S. Greene, second.
- Long jump—Won by H. Allen; Robert Pope, second.
- Running high jump—Won by R. A. Pope; H. S. Greene, second.

The sports were followed by a pretentious banquet.

SCIENTIFIC LANGUAGE OF THE DAY

Prof. Whitney (in Theoretical Chemistry explaining the Kinetic Theory of Gases): — "The Molecules may be likened to a lot of little bees banging around under water."

INSIDE OR OUTSIDE

Prof. Chandler: — "Now we see that this board is thicker on one side."
indeed

Prof. Homer: — "These steps are slightly high, so much so in fact, that it takes two steps to get up one."

perquisites $100.00

or

An Annual Entry in "Getty's" Ledger

<table>
<thead>
<tr>
<th>Dr.</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>300.00 Applied Mechanics @ 600.00</td>
<td>500.00 Applied Mechanics @ 100.00</td>
</tr>
<tr>
<td>80.00 Dynamics of Machines @ 400.00</td>
<td>80.00 Dynamics of Machines @ 200.00</td>
</tr>
<tr>
<td>80.00 Action of Reciprocating Rotor @ 300.00</td>
<td>80.00 Action of Reciprocating Rotor @ 100.00</td>
</tr>
<tr>
<td>80.00 Nota in Friction @ 400.00</td>
<td>80.00 Nota in Friction @ 100.00</td>
</tr>
<tr>
<td>80.00 Block @ 200.00 @ 5% Deduction &amp; Refe @ 75.00</td>
<td>80.00 Locomotive Design @ 20.00</td>
</tr>
<tr>
<td>Balance (Clear Profit)</td>
<td></td>
</tr>
<tr>
<td>1001</td>
<td>1001</td>
</tr>
</tbody>
</table>

not always

Chalifoux, '02: — "Is the term 'invertebrates' applied to animals which cannot breathe?"

better than usual

Mr. Blachstein: — "What case is 'Napoleon'?"

Robison, '02: — "Nominative."

Blachstein: — "How can Napoleon be the subject when everyone knows that he was the emperor?"

pretty poor

Prof. F. W. Chandler (making a criticism on a Junior design): — "That's the d---est thing I ever saw."
IS THIS TYPICAL OF COURSE I RECITATIONS?

Prof. Allen: — “I understand that there is a bridge over the Mississippi at St. Louis where the rails creep two feet a day. I used to say three feet but—er—”

Place, ’02 (excitedly) : — “Yes and there is a bridge at St. Louis, over the Mississippi, I think it is, where the rails creep five feet a day.”

Jimmie Smith, ’02 : — “I should think it would be cheaper to ride on the rails than on the cars out there.”

Prof. Allen: — “I don’t know, I have never ridden on a rail, perhaps you have, Mr. Smith.”

CONCLUSIVE

Mr. McKibben (in Structures) : — “Mr. Hazlewood, could you determine this structure?”

Hazlewood, ’02 : — “No, sir.”

Mr. McKibben: — “It can’t be done.”

IF HE COULDN’T, HOW COULD HE?

A. Gardner, ’02 : — “I can’t do this seventh problem.”

Prof. Peabody : — “Of course you can’t. It doesn’t require the application of Thermodynamics — just the application of common sense.”

“AND THE LAST SHALL BE FIRST.” — Blachstein.

When Gabriel blows the final trump,
And all the dead arise,
And gather into happy homes
Awaiting in the skies;

When all the blest are gathered in
And Peter’s shut the gate;
At Heaven’s door as here at Tech
Will Austin Wood come late?
WAKE, UP LOUIS

L. W. Adams, '03 (at the beginning of this year): — "Where is the Walker Building?"

THIRD YEAR GERMAN

Albright, '03 (translating): — "Benjamin Franklin was the seventeenth child of a family of seven."

GUESS AGAIN, BOBBY

Mr. Skinner: — "Mr. Pope, how many glyphs are there in a triglyph?"

Pope, '02: — "I don't know but I think there are ten."

MINING TERM

"Sinking."
CASEY WAS A DIVIL AT RAY-PAR-TAY

Charlie Cross (before the lecture on Electrical Machines): —
"Will you kindly give me a good turn on the Holtz machine, Mr.
Hapgood?"

Mr. Hapgood (after turning industriously for some time): —
"That's a good turn."

Charlie Cross: — "Just a moment more, Mr. Hapgood, you
know that one good turn deserves another."

THEY DON'T. THEY QUIT AT SUNSET

Haley, '01 (at Summer School in mining): — "Professor Richards,
how do miners see to work in the evening?"

POPULARITY AT TECH

There's a popular Prof—
Whom we speak of as "Linus;"
The love that we bear him
Is nearly all minus.
As o'er his Descrip,
Some poor Soph his teeth gnashes,
His thoughts about Linus
Are made up of dashes.

"WASIT LITCHIE"

His notes: — "A recording watt meter is a jigger with two coils
that would go like a streak if you let it go but we don't."
IN THERMO

Prof. Peabody: — "You see that in this bearing the packing blocks have hollow holes bored in them to make them as light as possible."

THE SOLUTION IS CLEAR

The President of the Junior Class recently suggested that the presence of iron in a clear solution might be detected by the aid of a magnet.

SOME FAMILIAR EXPRESSIONS IN FOURTH YEAR STRUCTURES, OR SAYINGS OF THE WISE (?)

As simple as A. B. C.
Any high school boy can do that.
A dollar and a half a day man.
I couldn’t recommend you for any job.
One word from me doubles your wages.
It’s all in the first five pages.
This is the Kernel, gentlemen, a simple little picayune problem.
You didn’t use your feet.
This is a corker, too.
Hard, isn’t it? Mr. Stearns.
OF COURSE

*Harry Clifford (in Acoustics):* — "Children have small mouths — acoustically speaking, that is — while adults as a rule have large mouths (after a long silence) also acoustically speaking, of course."

IT'S A BAD SIGN, KENT

*K. T. Stone, '02,* was recently discovered in the locker room over at the shops with both shoes and one sock off. He thought he was going to bed:

**AS USUAL**

*Mit einer neuen geschnittenen Feder.
Williston, '02 (translating):* — "With a newly shaved feather."

*Prof. Vogel: *— "Next."

KEEN DEDUCTIONS

*Prof. Woodbridge:* — "The general name for this form of vitality is 'micro organism.' We can pardon the German for calling it a 'germ'; we can excuse the Frenchman for calling it a 'parasite'; and we can tolerate the Irishman when he calls it a 'microbe'."

*Rash, '01, claims this sort of wheel 'outraged."

HARD ON HIM

*Arlo (reading, as Mr. Robinson leaves the room):* — "It is like the removal of a hideous nightmare."

WE ARE SORRY, BUT —

A goat ate all our other grinds
And then began to pun;
"I can not help it" he softly said
"I am so full of fun."
**INSTRUCTING STAFF FOR THE YEAR 1900-1901**

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>Professors</th>
<th>Associate Professors</th>
<th>Assistant Professors</th>
<th>Instruction</th>
<th>Assistants</th>
<th>Total</th>
<th>Lecturers</th>
<th>Total 1900-1901</th>
<th>Total 1899-1900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>6</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology, Zoology, etc.</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>6</td>
<td>13</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>3</td>
<td>0</td>
<td>6</td>
<td>11</td>
<td>6</td>
<td>26</td>
<td>9</td>
<td>35</td>
<td>34</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>4</td>
<td>0</td>
<td>1</td>
<td>4</td>
<td>4</td>
<td>13</td>
<td>2</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Drawing and Descriptive Geometry</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>5</td>
<td>1</td>
<td>7</td>
<td>1</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>English History and Political Science</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>8</td>
<td>2</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Language</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>0</td>
<td>11</td>
<td>0</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>Mechanic Arts</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>6</td>
<td>0</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Mech. Engineering and Applied Mechanics</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>8</td>
<td>20</td>
<td>2</td>
<td>22</td>
<td>19</td>
</tr>
<tr>
<td>Military Tactics</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mineralogy, Geology and Geography</td>
<td>1</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Mining Engineering and Metallurgy</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>5</td>
<td>2</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Naval Architecture</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Physics and Electrical Engineering</td>
<td>1</td>
<td>0</td>
<td>7</td>
<td>2</td>
<td>4</td>
<td>14</td>
<td>11</td>
<td>35</td>
<td>26</td>
</tr>
<tr>
<td>Gymnastics</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>25</strong></td>
<td><strong>11</strong></td>
<td><strong>27</strong></td>
<td><strong>44</strong></td>
<td><strong>32</strong></td>
<td><strong>139</strong></td>
<td><strong>42</strong></td>
<td><strong>181</strong></td>
<td><strong>176</strong></td>
</tr>
</tbody>
</table>
## SUMMARY of Graduates by Courses, 1868-1900

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Civil Engineering I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
<th>V</th>
<th>VI</th>
<th>VII</th>
<th>VIII</th>
<th>IX</th>
<th>X</th>
<th>XI</th>
<th>XII</th>
<th>XIII</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868</td>
<td>6</td>
<td>1</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>14</td>
</tr>
<tr>
<td>1869</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>1870</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>1871</td>
<td>8</td>
<td>2</td>
<td>5</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>17</td>
</tr>
<tr>
<td>1872</td>
<td>3</td>
<td>1</td>
<td>5</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>1873</td>
<td>12</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>26</td>
</tr>
<tr>
<td>1874</td>
<td>10</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>18</td>
</tr>
<tr>
<td>1875</td>
<td>10</td>
<td>7</td>
<td>6</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>1876</td>
<td>12</td>
<td>8</td>
<td>7</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>42*</td>
</tr>
<tr>
<td>1877</td>
<td>12</td>
<td>6</td>
<td>8</td>
<td>4</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>32</td>
</tr>
<tr>
<td>1878</td>
<td>8</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>19</td>
</tr>
<tr>
<td>1879</td>
<td>6</td>
<td>8</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>23</td>
</tr>
<tr>
<td>1880</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td>1881</td>
<td>3</td>
<td>5</td>
<td>6</td>
<td>3</td>
<td>8</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>1882</td>
<td>2</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>6</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>24</td>
</tr>
<tr>
<td>1883</td>
<td>3</td>
<td>7</td>
<td>5</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>19</td>
</tr>
<tr>
<td>1884</td>
<td>5</td>
<td>6</td>
<td>13</td>
<td>0</td>
<td>12</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>36</td>
</tr>
<tr>
<td>1885</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>2</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>27</td>
</tr>
<tr>
<td>1886</td>
<td>9</td>
<td>23</td>
<td>7</td>
<td>1</td>
<td>7</td>
<td>10</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>59</td>
</tr>
<tr>
<td>1887</td>
<td>10</td>
<td>17</td>
<td>8</td>
<td>1</td>
<td>9</td>
<td>8</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>58</td>
</tr>
<tr>
<td>1888</td>
<td>11</td>
<td>25</td>
<td>4</td>
<td>5</td>
<td>10</td>
<td>17</td>
<td>3</td>
<td>11</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>77</td>
</tr>
<tr>
<td>1889</td>
<td>15</td>
<td>23</td>
<td>5</td>
<td>3</td>
<td>8</td>
<td>17</td>
<td>1</td>
<td>11</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>75</td>
</tr>
<tr>
<td>1890</td>
<td>25</td>
<td>27</td>
<td>3</td>
<td>5</td>
<td>13</td>
<td>18</td>
<td>3</td>
<td>2</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>102</td>
</tr>
<tr>
<td>1891</td>
<td>18</td>
<td>26</td>
<td>4</td>
<td>6</td>
<td>11</td>
<td>23</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>7</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>103</td>
</tr>
<tr>
<td>1892</td>
<td>22</td>
<td>26</td>
<td>4</td>
<td>13</td>
<td>7</td>
<td>36</td>
<td>6</td>
<td>1</td>
<td>7</td>
<td>4</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>133</td>
</tr>
<tr>
<td>1893</td>
<td>25</td>
<td>30</td>
<td>5</td>
<td>2</td>
<td>8</td>
<td>41</td>
<td>2</td>
<td>0</td>
<td>6</td>
<td>0</td>
<td>8</td>
<td>0</td>
<td>2</td>
<td>129</td>
</tr>
<tr>
<td>1894</td>
<td>21</td>
<td>31</td>
<td>4</td>
<td>14</td>
<td>11</td>
<td>33</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>12</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>138</td>
</tr>
<tr>
<td>1895</td>
<td>25</td>
<td>30</td>
<td>3</td>
<td>15</td>
<td>14</td>
<td>33</td>
<td>0</td>
<td>2</td>
<td>4</td>
<td>11</td>
<td>4</td>
<td>0</td>
<td>5</td>
<td>144</td>
</tr>
<tr>
<td>1896</td>
<td>25</td>
<td>34</td>
<td>10</td>
<td>24</td>
<td>16</td>
<td>48</td>
<td>3</td>
<td>3</td>
<td>7</td>
<td>7</td>
<td>4</td>
<td>3</td>
<td>5</td>
<td>188†</td>
</tr>
<tr>
<td>1897</td>
<td>25</td>
<td>40</td>
<td>7</td>
<td>16</td>
<td>20</td>
<td>33</td>
<td>2</td>
<td>3</td>
<td>7</td>
<td>12</td>
<td>4</td>
<td>1</td>
<td>9</td>
<td>179</td>
</tr>
<tr>
<td>1898</td>
<td>32</td>
<td>41</td>
<td>7</td>
<td>29</td>
<td>23</td>
<td>33</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>9</td>
<td>3</td>
<td>0</td>
<td>7</td>
<td>197</td>
</tr>
<tr>
<td>1899</td>
<td>30</td>
<td>38</td>
<td>9</td>
<td>22</td>
<td>21</td>
<td>32</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>9</td>
<td>1</td>
<td>0</td>
<td>8</td>
<td>175</td>
</tr>
<tr>
<td>1900</td>
<td>31</td>
<td>34</td>
<td>21</td>
<td>21</td>
<td>17</td>
<td>23</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>12</td>
<td>4</td>
<td>0</td>
<td>9</td>
<td>183</td>
</tr>
<tr>
<td>Total</td>
<td>437</td>
<td>499</td>
<td>189</td>
<td>197</td>
<td>257</td>
<td>407</td>
<td>39</td>
<td>45</td>
<td>79</td>
<td>91</td>
<td>29</td>
<td>8</td>
<td>43</td>
<td>2320</td>
</tr>
</tbody>
</table>

Deduct the names counted twice

Net total

* One graduate of Course of Metallurgy in 1876.
† Deducting names counted twice.
# GEOGRAPHICAL DISTRIBUTION OF STUDENTS

<table>
<thead>
<tr>
<th>State</th>
<th>Number</th>
<th>State</th>
<th>Number</th>
<th>State</th>
<th>Number</th>
<th>State</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alabama</td>
<td>1</td>
<td>Louisiana</td>
<td>2</td>
<td>Ohio</td>
<td>27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arkansas</td>
<td>1</td>
<td>Maine</td>
<td>22</td>
<td>Oregon</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>California</td>
<td>10</td>
<td>Maryland</td>
<td>13</td>
<td>Pennsylvania</td>
<td>37</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colorado</td>
<td>8</td>
<td>Mass.</td>
<td>779</td>
<td>Rhode Island</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connecticut</td>
<td>35</td>
<td>Michigan</td>
<td>8</td>
<td>South Carolina</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delaware</td>
<td>4</td>
<td>Minnesota</td>
<td>7</td>
<td>South Dakota</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dist. of Columbia</td>
<td>13</td>
<td>Missouri</td>
<td>13</td>
<td>Tennessee</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Florida</td>
<td>1</td>
<td>Montana</td>
<td>5</td>
<td>Texas</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Georgia</td>
<td>3</td>
<td>Nebraska</td>
<td>4</td>
<td>Utah</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hawaiian Islands</td>
<td>1</td>
<td>Nevada</td>
<td>1</td>
<td>Vermont</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Illinois</td>
<td>39</td>
<td>New Hampshire</td>
<td>26</td>
<td>Virginia</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indiana</td>
<td>7</td>
<td>New Jersey</td>
<td>8</td>
<td>Washington</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iowa</td>
<td>10</td>
<td>New York</td>
<td>68</td>
<td>West Virginia</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kentucky</td>
<td>5</td>
<td>North Carolina</td>
<td>2</td>
<td>Wisconsin</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total number</td>
<td>42</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>of states</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>represented</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total number</td>
<td>1,244</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>of students</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>from same</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bermuda             | 1      | Germany          | 2      | Russia        | 1      |
| Denmark             | 1      | Jamaica          | 1      | Quebec        | 4      |
| England             | 3      | Japan            | 2      | Nova Scotia   | 2      |
| France              | 4      | Mexico           | 7      | New Brunswick | 2      |
| Turkey              |        |                  |        |               | 3      |
|                     |        |                  |        | Total number  | 13      |
|                     |        |                  |        | of countries  |         |
|                     |        |                  |        | represented   |         |
|                     |        |                  |        | Total number  | 1,244   |
|                     |        |                  |        | of students   |         |
|                     |        |                  |        | from same     | 33      |

United States      |        |                  |        | 1,244         |
| Foreign Countries  |        |                  |        | 33            |
| Total              |        |                  |        | 1,277         |
PLOTS of Graduates by COURSES

Abscissa=Years  Ordinates=Number of Students

PLOT showing Number of Entering and Graduate Students, by YEARS

Abscissa=Years  Ordinates=Number of Students
CONCERNING THE INSTITUTE

Presidents and Years of Service

WILLIAM BARTON ROGERS, 1865–70, 1878–81
FRANCIS AMASA WALKER, 1881–97
JOHN DANIEL RUNKLE, 1870–78
JAMES MASON CRAFTS, 1897–00
HENRY SMITH PRITCHETT, 1900

Secretaries and Years of Service

W. P. ATKINSON, 1865–68
G. A. OSBORNE, 1868–71
S. KNEELAND, 1871–78
G. H. HOWISON, 1878–79
R. H. RICHARDS, 1879–83
W. WELLS, 1883–84
J. P. MUNROE, 1884–89
H. W. TYLER, 1889–90
J. B. HENCK, JR., 1890–91
H. W. TYLER, 1891–

Names of Buildings and Dates of Foundation

Rogers, 1865
Engineering "B," 1892
Walker, 1883
Pierce, 1899
Engineering "A," 1889–90
Workshops, 1883
Gymnasium (where Walker is now) 1874
Gymnasium (on Exeter St.) 1882

Periodic Publications and Date of First Issue

Technology Quarterly, 1891
Technology Review, 1899

The average cost per student to the Institute, is about $330 per year, including interest on plant.

Class Colors and Yells

Class of 1901

Colors: Orange and Black

Yell: Naughty-one! Naughty-one! Naughty-one!
Rah, Rah, Rah! Rah, Rah, Rah!
Rah, Rah, Rah!
Naughty-one

Class of 1902

Colors: Blue and Gray

Yell: Naughty-two, Naughty-two
Rah, Rah, Rah, Rah

Naughty-two, Naughty-two
Rah, Rah, Rah, Rah

Who Rah, Who Rah

M. I. T., Naughty-two
Rah, Rah, Rah

Class of 1903

Colors: Blue and Gold

Yell: Naughty-three! three! three!

Naughty-three! three! three!

M. I. T. ! Naughty-three!

Class of 1904

Colors: Crimson and Black

Yell: Naughty-four are we,

Naughty-four are we,

M. I. T.

Technology
Bequests
RECEIVED BY THE INSTITUTE
1865-1901

The Institute has received from bequests and gifts, from its foundation in 1865 to January 1, 1901, the sum of nearly four and a half million dollars. Some of the purposes for which portions of this sum have been given are as follows:

The Commonwealth of Massachusetts has contributed in times of need, one hundred thousand of which was given on condition that the Institute shall in perpetuity annually award twenty free scholarships. It has also given, in annual payments for twenty more annual scholarships, a further sum of $325,000

There have been received under U. S. Act of 1862 $197,158
under U. S. Act of 1890 $81,666

Annual payments from these sources are still continued.

Special subscriptions have been received from individuals, chiefly citizens of Boston, at two different periods to assist the Institute in times of great financial necessity.

Such subscriptions amount to $252,250

Subscriptions were received for the William Barton Rogers Memorial Fund amounting to $250,225

Bequests, the income of which was given for the establishment of scholarships, to the amount of $704,500

This includes what was contributed by the Alumni to the Wm. B. Rogers Scholarship Fund, which now amounts to more than $10,000

In some instances, however, the income from scholarship funds is restricted by being made subject to certain conditions.

For the aid of our Libraries, the income derived from $12,000
To assist in the payment of salaries, the income derived from $62,600
For travelling scholarships in architecture every fourth year, the income derived from $6,000
For the expenses in the department of architecture, the income derived from $25,000
For two prizes annually in the same department, the income derived from $10,000
As a Teachers’ Fund, the late Mr. Augustus Lowell gave $100,000

307
CLASS STATISTICS

During the term the following questions were submitted to each member of the Class of Nineteen Hundred and Two. As an average of the one hundred and sixty-seven returns, we beg to submit the following information, which portrays at a glance the enviable points of our Class, together with our failings, collectively and individually.

Age?
Average age = 20.92 + years. More elaborate calculations give twenty years, eleven months, fourteen days, five hours, twenty-three minutes, four seconds (standardized).

Weight?
Average weight = 143 lbs. Assuming g = 980.1374 + , the weight becomes .0715 tons.

Height?
Average height = 5 feet, 8.5 inches. According to Professor Goodwin, height = 74.803 cm. (corrected for calibration error).

Head?
Average size = 7.03. As a result of numerous experiments, C. A. Smith presents the following data: 1 litre full and .9736 litres empty. A constant error enters here.

Shoe?
Average size = 6.7. "Mud" Comins wins hands down with three sizes to the good.

Favorite Drinks?
Thirty-seven prefer water, 12 are slaves to the milk habit (we bow to the Y. M. C. A.), 34 acknowledge allegiance to strong drinks; Mamie Taylors', High Balls, Fireproof Cocktails, Tommy Atkins', etc. The other 84 are too busy to imbibe anything but knowledge. Tom Foote has sworn off because everyone else is "broke."

Rising Hour?
Average = three minutes after eight. Pendergast is always twenty minutes late.

Retiring Hour?
Average = 11.54—Exam periods and Saturday evenings excepted, concerning which times we can obtain no accurate information.

Favorite Exercises?
The most popular are walking, riding, tennis, and spooning, with Hollis as leader of the Spooning Brigade. Some people do not indulge in much, and "Zaza" Appleton does not take any.

Specialty at Tech?
The majority are of a relaxive nature. One fellow hasn’t any, but hopes to own one next year.

Political Parties?
Returns show 107 Republicans, 13 Democrats, 6 Populists, and 2 Single Taxers (Prof. Dewey's advocacy of the latter being accountable for its poor showing).

Driest Subject at Tech?
Heat and Applied lead with Water Analysis a close third. What’s the matter with "Chapel"?

Allowances per Month?
Average = $31. R. A. Pope’s varies with the rise and fall of stocks.
Expenses?

Average = $647. Twenty-three spend over $1000. Nineteen are below $400. Six spendthrifts dispense $8400, and six "upperites" eke out an existence on $1715.

Opinion of Boston?

The four following extracts denote the diversity of opinion: "Boston is a fair article to cover a bare spot on the face of the earth, but parts of it are badly wrinkled." "A slow going colony of Puritans presided over by the Boston Post." "The atmosphere of learning permeating this metropolis is eminently conducive to cerebral activity, thereby facilitating the acquisition of a vast amount of erudition and necessitating an infinitesimal quantity of conviviality among Technology students." "Not fit for publication," says one of the co-eds.

Are You a "Fusser"?

Ninety-seven plead guilty, twenty-three want to be, but can't; the remainder assert their independence. Chalifoux leads the ninety-seven list, but even he has his ups and downs.

Are You Engaged?

Indefinite answers prevail. F. H. Hunter boldly announces that everyone thinks he is, but he isn't.

Blonde or Brunette?

The blondes number 83. The brunettes confess to a like number. The "black and tan" man will have to decide the contest. Who is it?

Living at Home?

Eighty-one answer "yes"; eighty-six "no."

Studying up to Requirements of Catalogue?

Yes, 91; No, 52. One fellow says "yes" but the Faculty doesn't think so.

Shall Chapel be Abolished?

Yes, 55; No, 92.

In What Form Do You Use Tobacco?

Fifty-five smoke pipes (Class pipes excepted), 23 coffin-nail fiends, 5 chew and the remainder are not addicted to the habit.

Preparation for the Institute?

Private Preparatory Schools (and Harvard) 63.1 per cent
High Schools 22.3
Private Tutoring 7.6
Previous Colleges 2.9

The remainder entered on a "bluff."

Did you ever use a Pawn Ticket?

Non-users 79.1 per cent
Regulars 7.2
Special 11.6

The remainder are non-committal. We suspect the Bursar exerts a controlling influence over the latter. One man indulged once because he had more time than money.

Do you believe in Ideals?

We submit the following choice samples:

"An Institute in which the Faculty sells text books at cost to the students, and corrected the proof sheets of each book before publishing it."

"Yes, he is an honorable, fair man, beloved by teachers and pupils alike. Poems have been written year after year by loving and admiring friends extolling his virtues."

His name, _______ _______
# CONCERNING

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Founded</th>
<th>President</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albion</td>
<td>Albion, Mich.</td>
<td>1861</td>
<td>Samuel Dickie, L.L.D.</td>
</tr>
<tr>
<td>Amherst</td>
<td>Amherst, Mass.</td>
<td>1821</td>
<td>George Harris, D.D., L.L.D.</td>
</tr>
<tr>
<td>Armour Institute</td>
<td>Chicago, Ill.</td>
<td>1892</td>
<td>Victor C. Alderson (acting)</td>
</tr>
<tr>
<td>Atlanta University</td>
<td>Atlanta, Ga.</td>
<td>1869</td>
<td>Dr. Horace Bumstead, D.D.</td>
</tr>
<tr>
<td>Barnard</td>
<td>New York, N.Y.</td>
<td>1889</td>
<td>Seth Low, L.L.D.</td>
</tr>
<tr>
<td>Boston University</td>
<td>Boston, Mass.</td>
<td>1869</td>
<td>William Fairfield Warren, L.L.D.</td>
</tr>
<tr>
<td>Bowdoin</td>
<td>Brunswick, Me.</td>
<td>1794</td>
<td>William DeWitt Hyde, D.D., L.L.D.</td>
</tr>
<tr>
<td>Brown University</td>
<td>Providence, R.I.</td>
<td>1764</td>
<td>William Herbert Perry Faunce, D.D.</td>
</tr>
<tr>
<td>Bryn Mawr</td>
<td>Bryn Mawr, Pa.</td>
<td>1880</td>
<td>M. Carey Thomas, Ph.D., L.L.D.</td>
</tr>
<tr>
<td>Buchtel</td>
<td>Akron, Ohio</td>
<td>1871</td>
<td>Rev. Ira A. Priest.</td>
</tr>
<tr>
<td>Colby University</td>
<td>Waterville, Me.</td>
<td>1818</td>
<td>Rev. Nathaniel Butler, D.D.</td>
</tr>
<tr>
<td>Colgate University</td>
<td>Hamilton, N.Y.</td>
<td>1840</td>
<td>George Edwards Merrill, D.D.</td>
</tr>
<tr>
<td>College of William and Mary</td>
<td>Williamsburg, Va.</td>
<td>1863</td>
<td>Lyon G. Tyler, M.A., L.L.D.</td>
</tr>
<tr>
<td>Colorado College</td>
<td>Colorado Springs, Colo.</td>
<td>1874</td>
<td>William Frederick Slocomb.</td>
</tr>
<tr>
<td>Columbia University</td>
<td>New York, N.Y.</td>
<td>1754</td>
<td>Seth Low, L.L.D.</td>
</tr>
<tr>
<td>Cornell University</td>
<td>Ithaca, N.Y.</td>
<td>1865</td>
<td>Jacob Gould Schurman, P.Sc., L.L.D.</td>
</tr>
<tr>
<td>Dartmouth</td>
<td>Hanover, N.H.</td>
<td>1769</td>
<td>William J. Tucker.</td>
</tr>
<tr>
<td>De Pauw University</td>
<td>Greencastle, Ind.</td>
<td>1837</td>
<td>Rev. Hilary A. Gobin, A.M., D.D.</td>
</tr>
<tr>
<td>Drury</td>
<td>Springfield, Mo.</td>
<td>1873</td>
<td>Homer Taylor Fuller, Ph.D.</td>
</tr>
<tr>
<td>Fish University</td>
<td>Nashville, Tenn.</td>
<td>1806</td>
<td>Rev. E. M. Cravath, D.D.</td>
</tr>
<tr>
<td>Girard</td>
<td>Philadelphia, Pa.</td>
<td>1852</td>
<td>A. H. Feltorolf, Ph.D., L.L.D.</td>
</tr>
<tr>
<td>Hamilton</td>
<td>Clinton, N.Y.</td>
<td>1812</td>
<td>Melanchon Wollsey Stryker.</td>
</tr>
<tr>
<td>Harvard University</td>
<td>Cambridge, Mass.</td>
<td>1818</td>
<td>Charles William Eliot, L.L.D.</td>
</tr>
<tr>
<td>Iowa</td>
<td>Grinnell, Iowa</td>
<td>1848</td>
<td>Prof. J. H. T. Main (acting)</td>
</tr>
<tr>
<td>Johns Hopkins University</td>
<td>Baltimore, Md.</td>
<td>1876</td>
<td>Daniel C. Gilman, L.L.D.</td>
</tr>
<tr>
<td>Lafayette</td>
<td>Easton, Pa.</td>
<td>1836</td>
<td>Rev. Ethelbert D. Warfield, L.L.D.</td>
</tr>
<tr>
<td>Lehigh University</td>
<td>South Bethlehem, Pa.</td>
<td>1866</td>
<td>Thomas Merringer Drown.</td>
</tr>
<tr>
<td>Leland Stanford, Jr., University</td>
<td>Stanford University, Cal.</td>
<td>1831</td>
<td>David Starr Jordan.</td>
</tr>
<tr>
<td>Maine State College</td>
<td>Orono, Me.</td>
<td>1805</td>
<td>Abraham W. Harris, L.L.D.</td>
</tr>
<tr>
<td>Marietta</td>
<td>Marietta, Ohio</td>
<td>1835</td>
<td>Alfred Tyler Perry.</td>
</tr>
<tr>
<td>Middlebury</td>
<td>Middlebury, Vt.</td>
<td>1800</td>
<td>Ezra Brainerd, D.D., L.L.D.</td>
</tr>
<tr>
<td>Mt. Holyoke</td>
<td>South Hadley, Mass.</td>
<td>1837</td>
<td>Mary Emma Wooley, A.M., Litt., D., Lb. D.</td>
</tr>
<tr>
<td>Niagara University</td>
<td>Niagara University, N.Y.</td>
<td>1836</td>
<td>Rev. Patrick S. McHale, C.M.</td>
</tr>
<tr>
<td>Northwestern University</td>
<td>Evanston, Ill.</td>
<td>1851</td>
<td>Daniel Bonbright, L.L.D.</td>
</tr>
<tr>
<td>Ohio State University</td>
<td>Columbus, Ohio</td>
<td>1870</td>
<td>William Oakley Thompson.</td>
</tr>
</tbody>
</table>
## THE COLLEGES

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>420</td>
<td>22</td>
<td>Pink and Green.</td>
<td>yes</td>
<td>§ 24</td>
<td>$ 425,000</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>400</td>
<td>36</td>
<td>Purple and White.</td>
<td>no</td>
<td>§ 110</td>
<td>1,000,000</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>250</td>
<td>28</td>
<td>Yellow and Black.</td>
<td>yes</td>
<td>§ 75</td>
<td>1,500,000</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>300</td>
<td>14</td>
<td>Steel Gray and Crimson.</td>
<td>yes</td>
<td>§ 16</td>
<td>275,000</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>380</td>
<td>43</td>
<td>Blue and White.</td>
<td>no</td>
<td>§ 50</td>
<td>300,000</td>
<td></td>
</tr>
<tr>
<td>1430</td>
<td>144</td>
<td></td>
<td>Scarlet and White.</td>
<td>yes</td>
<td>§ 125</td>
<td>1,000,000</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>356</td>
<td>34</td>
<td>White.</td>
<td>no</td>
<td>§ 75</td>
<td>1,500,000</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>872</td>
<td>80</td>
<td>Brown and White.</td>
<td>yes</td>
<td>§ 105</td>
<td>3,500,000</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>392</td>
<td>42</td>
<td>Yellow and White.</td>
<td>no</td>
<td>§ 150</td>
<td>690,000</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>272</td>
<td>17</td>
<td>Old Gold and Navy Blue.</td>
<td>yes</td>
<td>§ 40</td>
<td>480,000</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>210</td>
<td>14</td>
<td>Pearl Gray.</td>
<td>yes</td>
<td>§ 60</td>
<td>200,000</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>152</td>
<td>18</td>
<td>Maroon.</td>
<td>no</td>
<td>§ 60</td>
<td>2,500,000</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>156</td>
<td>15</td>
<td>Orange and White.</td>
<td>no</td>
<td>§ 35</td>
<td>125,000</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>547</td>
<td>39</td>
<td>Gold and Black.</td>
<td>yes</td>
<td>§ 38</td>
<td>980,000</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>2622</td>
<td>402</td>
<td>Light Blue and White.</td>
<td>yes</td>
<td>§ 125</td>
<td>10,020,222</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2507</td>
<td>370</td>
<td>Carnelian and White.</td>
<td>no</td>
<td>§ 150</td>
<td>6,000,000</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>754</td>
<td>57</td>
<td>Dark Green.</td>
<td>no</td>
<td>§ 75</td>
<td>2,000,000</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>615</td>
<td>30</td>
<td>Old Gold.</td>
<td>yes</td>
<td>§ 6,25</td>
<td>750,000</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>475</td>
<td>26</td>
<td>Red and White.</td>
<td>yes</td>
<td>§ 48</td>
<td>425,000</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>300</td>
<td>22</td>
<td>Crimson and Gray.</td>
<td>yes</td>
<td>§ 14.50</td>
<td>330,000</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>504</td>
<td>31</td>
<td>Blue and Yellow.</td>
<td>no</td>
<td>Free</td>
<td>400,000</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>168</td>
<td>15</td>
<td>Blue and White.</td>
<td>no</td>
<td>Free</td>
<td>15,035,293</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>1510</td>
<td>67</td>
<td>Steel and Garnet.</td>
<td>yes</td>
<td>§ 75</td>
<td>500,000</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>176</td>
<td>19</td>
<td>Buff and Blue.</td>
<td>no</td>
<td>§ 150</td>
<td>6,000,000</td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>4288</td>
<td>496</td>
<td>Clemson.</td>
<td>no</td>
<td>§ 150</td>
<td>6,000,000</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>166</td>
<td>16</td>
<td>Orange and Royal Purple.</td>
<td>yes</td>
<td>§ 100</td>
<td>700,000</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>400</td>
<td>31</td>
<td>Scarlet and Black.</td>
<td>yes</td>
<td>§ 55</td>
<td>175,000</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>644</td>
<td>133</td>
<td>Black and Old Gold.</td>
<td>no</td>
<td>§ 150</td>
<td>1,448,351</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>306</td>
<td>30</td>
<td>Maroon and White.</td>
<td>no</td>
<td>§ 125</td>
<td>1,350,000</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>445</td>
<td>44</td>
<td>Brown and White.</td>
<td>no</td>
<td>§ 125</td>
<td>1,230,000</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>1400</td>
<td>33</td>
<td>Cardinal Red.</td>
<td>yes</td>
<td>None</td>
<td>1,230,000</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>373</td>
<td>54</td>
<td>Light Blue.</td>
<td>yes</td>
<td>§ 30</td>
<td>1,230,000</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>252</td>
<td>19</td>
<td>Navy Blue and White.</td>
<td>yes</td>
<td>§ 30</td>
<td>600,000</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1277</td>
<td>181</td>
<td>Cred. Red and Silver Gray.</td>
<td>yes</td>
<td>§ 200</td>
<td>1,164,356</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>125</td>
<td>10</td>
<td>Blue and White.</td>
<td>yes</td>
<td>§ 60</td>
<td>550,000</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>550</td>
<td>53</td>
<td>Light Blue.</td>
<td>yes</td>
<td>§ 100</td>
<td>1,060,000</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>145</td>
<td>12</td>
<td>Steel Gray and Garnet.</td>
<td>yes</td>
<td>§ 50</td>
<td>1,060,000</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>1650</td>
<td>142</td>
<td>Violet.</td>
<td>yes</td>
<td>§ 125</td>
<td>3,370,492</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>220</td>
<td>17</td>
<td>Purple and White.</td>
<td>yes</td>
<td>§ 200</td>
<td>300,000</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>2865</td>
<td>285</td>
<td>Royal Purple.</td>
<td>yes</td>
<td>§ 30</td>
<td>5,663,323</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>1323</td>
<td>82</td>
<td>Crimson and Gold.</td>
<td>yes</td>
<td>§ 75</td>
<td>1,900,000</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>1450</td>
<td>124</td>
<td>Scarlet and Gray.</td>
<td>yes</td>
<td>§ 45</td>
<td>330,000</td>
<td></td>
</tr>
</tbody>
</table>
## CONCERNING

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Founded</th>
<th>President</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio Wesleyan University</td>
<td>Delaware, Ohio</td>
<td>1844</td>
<td>James W. Bashford, Ph.D., D.D.</td>
</tr>
<tr>
<td>Pacific University</td>
<td>Forest Grove, Ore.</td>
<td>1848</td>
<td>William N. Ferrin</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>Gettysburg, Pa.</td>
<td>1872</td>
<td>Harvey W. M. Knight, D.D., L.L.D.</td>
</tr>
<tr>
<td>Polytechnic Institute of Brooklyn</td>
<td>Brooklyn, N.Y.</td>
<td>1874</td>
<td>Henry Sawyer Snow, A.B., L.L.D.</td>
</tr>
<tr>
<td>Pratt Institute</td>
<td>Brooklyn, N.Y.</td>
<td>1887</td>
<td>Charles M. Pratt</td>
</tr>
<tr>
<td>Purdue University</td>
<td>Lafayette, Ind.</td>
<td>1869</td>
<td>Winthrop Eellsworth Stone, A.M., Ph.D.</td>
</tr>
<tr>
<td>Radcliffe</td>
<td>Cambridge, Mass.</td>
<td>1879</td>
<td>Elizabeth Agassiz</td>
</tr>
<tr>
<td>Rose Polytechnic Institute</td>
<td>Terra Haute, Ind.</td>
<td>1883</td>
<td>C. Leo Mees</td>
</tr>
<tr>
<td>Rutgers</td>
<td>New Brunswick, N. J.</td>
<td>1766</td>
<td>Austin Scott, Ph.D., L.L.D.</td>
</tr>
<tr>
<td>Smith</td>
<td>Northampton, Mass.</td>
<td>1871</td>
<td>L. Clark Seely, D.D., L.L.D.</td>
</tr>
<tr>
<td>Swarthmore</td>
<td>Swarthmore, Pa.</td>
<td>1864</td>
<td>William W. Birdsall</td>
</tr>
<tr>
<td>Trinity</td>
<td>Hartford, Conn.</td>
<td>1873</td>
<td>George Williamson Smith, S.T.D., L.L.D.</td>
</tr>
<tr>
<td>Tulane University</td>
<td>New Orleans, La.</td>
<td>1847</td>
<td>Edwin Anderson Alderman, L.L.D.</td>
</tr>
<tr>
<td>Union</td>
<td>Schenectady, N. Y.</td>
<td>1791</td>
<td>Andrew V. V. Raymond, D.D., L.L.D.</td>
</tr>
<tr>
<td>United States Military Academy</td>
<td>West Point, N. Y.</td>
<td>1795</td>
<td>O. H. Ernst, Col., U. S. A., Supt.</td>
</tr>
<tr>
<td>United States Naval Academy</td>
<td>Annapolis, Md.</td>
<td>1802</td>
<td>Richard Wainwright, Commander, U.S.N.</td>
</tr>
<tr>
<td>University of California</td>
<td>Berkeley, Cal.</td>
<td>1845</td>
<td>Benjamin Ide Wheeler, Ph.D., L.L.D.</td>
</tr>
<tr>
<td>University of Chicago</td>
<td>Chicago, Ill.</td>
<td>1868</td>
<td>Wm. Rainey Harper, D.D., Ph.D., L.L.D.</td>
</tr>
<tr>
<td>University of Colorado</td>
<td>Boulder, Colo.</td>
<td>1877</td>
<td>James H. Baker, M.A., L.L.D.</td>
</tr>
<tr>
<td>University of Denver</td>
<td>Denver, Colo.</td>
<td>1886</td>
<td>Henry A. Buchtel, D.D., Ph.D.</td>
</tr>
<tr>
<td>University of Michigan</td>
<td>Ann Arbor, Mich.</td>
<td>1837</td>
<td>James B. Angell, L.L.D.</td>
</tr>
<tr>
<td>University of Illinois</td>
<td>Urbana, Ill.</td>
<td>1867</td>
<td>Andrew Sloan Draper, L.L.D.</td>
</tr>
<tr>
<td>University of Minnesota</td>
<td>Minneapolis, Minn.</td>
<td>1868</td>
<td>Cyrus Northup</td>
</tr>
<tr>
<td>University of Mississippi</td>
<td>Oxford, Miss.</td>
<td>1848</td>
<td>Robert Burwell Fulton</td>
</tr>
<tr>
<td>University of Nebraska</td>
<td>Lincoln, Neb.</td>
<td>1869</td>
<td>E. Benjamin Andrews</td>
</tr>
<tr>
<td>University of Pennsylvania</td>
<td>Philadelphia, Pa.</td>
<td>1740</td>
<td>Charles C. Harrison, L.L.D.</td>
</tr>
<tr>
<td>University of the South</td>
<td>Sewanee, Tenn.</td>
<td>1857</td>
<td>Benjamin Lawton Wiggins</td>
</tr>
<tr>
<td>University of Texas</td>
<td>Austin, Texas</td>
<td>1883</td>
<td>William L. Prither, L.L.D.</td>
</tr>
<tr>
<td>University of Virginia</td>
<td>Charlottesville, Va.</td>
<td>1819</td>
<td>P. B. Barringer, M.D., L.L.D.</td>
</tr>
<tr>
<td>University of Wisconsin</td>
<td>Madison, Wis.</td>
<td>1848</td>
<td>Charles Kendall Adams, L.L.D.</td>
</tr>
<tr>
<td>Vassar</td>
<td></td>
<td>1861</td>
<td>George Munroe Taylor, D.D., L.L.D.</td>
</tr>
<tr>
<td>Washington and Lee University</td>
<td>Lexington, Va.</td>
<td>1749</td>
<td>Henry St. George Tucker, L.L.D.</td>
</tr>
<tr>
<td>Wesleyan University</td>
<td>Middletown, Conn.</td>
<td>1831</td>
<td>Rev. Bradford P. Raymond, D.D., L.L.D.</td>
</tr>
<tr>
<td>Western Maryland</td>
<td>Westminster, Md.</td>
<td>1869</td>
<td>Rev. Thomas Hamilton Lewis, D.D.</td>
</tr>
<tr>
<td>Williams</td>
<td></td>
<td>1793</td>
<td>Franklin Carter, Ph. D., L.L.D.</td>
</tr>
<tr>
<td>Worcester Polytechnic Institute</td>
<td>Worcester, Mass.</td>
<td>1865</td>
<td>Thomas Corwin Mendenhall, Ph.D., L.L.D.</td>
</tr>
<tr>
<td>Wooster University</td>
<td>Wooster, Ohio.</td>
<td>1866</td>
<td>Rev. Louis Edward Holden</td>
</tr>
<tr>
<td>Yale University</td>
<td>New Haven, Conn.</td>
<td>1701</td>
<td>Arthur T. Hadley, L.L.D.</td>
</tr>
</tbody>
</table>
### The Colleges

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>1350</td>
<td>58</td>
<td>Black and Red.</td>
<td>Heart of Oak</td>
<td>yes</td>
<td>$48</td>
<td>$1,212,420</td>
</tr>
<tr>
<td>6</td>
<td>226</td>
<td>14</td>
<td>Crimson and Black.</td>
<td>The Spectrum</td>
<td>yes</td>
<td>48</td>
<td>286,250</td>
</tr>
<tr>
<td>7</td>
<td>280</td>
<td>15</td>
<td>Orange and Blue.</td>
<td>The Polygog</td>
<td>no</td>
<td>200</td>
<td>250,000</td>
</tr>
<tr>
<td>2</td>
<td>680</td>
<td>49</td>
<td>Blue and Gray.</td>
<td>Brice-a-Brac</td>
<td>yes</td>
<td>75</td>
<td>3,665,820</td>
</tr>
<tr>
<td>6</td>
<td>5118</td>
<td>134</td>
<td>Cadmium Yellow.</td>
<td>Debris</td>
<td>yes</td>
<td>25</td>
<td>665,000</td>
</tr>
<tr>
<td>33</td>
<td>1209</td>
<td>90</td>
<td>Orange and Black.</td>
<td>The Modulus</td>
<td>no</td>
<td>100</td>
<td>800,000</td>
</tr>
<tr>
<td>22</td>
<td>1030</td>
<td>71</td>
<td>Old Gold and Black.</td>
<td>Scarlet Letter</td>
<td>no</td>
<td>75</td>
<td>1,500,000</td>
</tr>
<tr>
<td>6</td>
<td>455</td>
<td>100</td>
<td>Old Rose and White.</td>
<td>Halcyon</td>
<td>yes</td>
<td>100</td>
<td>2,671,943</td>
</tr>
<tr>
<td>9</td>
<td>201</td>
<td>20</td>
<td>Scarlet.</td>
<td>Ivy</td>
<td>yes</td>
<td>100</td>
<td>1,000,000</td>
</tr>
<tr>
<td>23</td>
<td>1312</td>
<td>78</td>
<td>White.</td>
<td>The Brown and Blue</td>
<td>yes</td>
<td>105</td>
<td>2,000,000</td>
</tr>
<tr>
<td>6</td>
<td>200</td>
<td>31</td>
<td>Garnet.</td>
<td>Jambalaya</td>
<td>no</td>
<td>105</td>
<td>500,000</td>
</tr>
<tr>
<td>8</td>
<td>1700</td>
<td>140</td>
<td>Orange.</td>
<td>The Garnet</td>
<td>no</td>
<td>75</td>
<td>604,000</td>
</tr>
<tr>
<td>23</td>
<td>1112</td>
<td>78</td>
<td>Blue and Gold.</td>
<td>Blue and Gold</td>
<td>yes</td>
<td>None</td>
<td>3,107,210</td>
</tr>
<tr>
<td>6</td>
<td>200</td>
<td>31</td>
<td>Garnet.</td>
<td>Blue and Gold</td>
<td>yes</td>
<td>None</td>
<td>3,000,000</td>
</tr>
<tr>
<td>12</td>
<td>800</td>
<td>84</td>
<td>Silver and Gold.</td>
<td>The Sombrero</td>
<td>yes</td>
<td>Free</td>
<td>3,000,000</td>
</tr>
<tr>
<td>5</td>
<td>630</td>
<td>95</td>
<td>Red and Gold.</td>
<td>Cap and Gown</td>
<td>yes</td>
<td>Free</td>
<td>500,000</td>
</tr>
<tr>
<td>19</td>
<td>3700</td>
<td>207</td>
<td>Maize and Blue.</td>
<td>Cactus</td>
<td>no</td>
<td>100</td>
<td>562,953</td>
</tr>
<tr>
<td>16</td>
<td>2466</td>
<td>258</td>
<td>Orange and Blue.</td>
<td>Corks and CURLS</td>
<td>no</td>
<td>75</td>
<td>500,000</td>
</tr>
<tr>
<td>30</td>
<td>3400</td>
<td>250</td>
<td>Maroon and Old Gold.</td>
<td>The Calyx</td>
<td>no</td>
<td>75</td>
<td>1,000,000</td>
</tr>
<tr>
<td>4</td>
<td>275</td>
<td>17</td>
<td>Royal Purple.</td>
<td>Legenda</td>
<td>no</td>
<td>105</td>
<td>8,500,000</td>
</tr>
<tr>
<td>20</td>
<td>2209</td>
<td>128</td>
<td>Scarlet and Cream.</td>
<td>The Index</td>
<td>no</td>
<td>75</td>
<td>1,122,000</td>
</tr>
<tr>
<td>12</td>
<td>2576</td>
<td>255</td>
<td>Red and Blue.</td>
<td>Olla Podrida</td>
<td>yes</td>
<td>35</td>
<td>884,235</td>
</tr>
<tr>
<td>12</td>
<td>500</td>
<td>35</td>
<td>Purple.</td>
<td>Aloha</td>
<td>yes</td>
<td>75</td>
<td>500,000</td>
</tr>
<tr>
<td>6</td>
<td>995</td>
<td>99</td>
<td>Orange and White.</td>
<td>Old Gold and Olive Green.</td>
<td>no</td>
<td>105</td>
<td>1,122,000</td>
</tr>
<tr>
<td>16</td>
<td>275</td>
<td>20</td>
<td>Old Gold and Olive Green.</td>
<td>Royal Purple.</td>
<td>no</td>
<td>105</td>
<td>1,000,000</td>
</tr>
<tr>
<td>22</td>
<td>386</td>
<td>13</td>
<td>Old Gold and Olive Green.</td>
<td>Royal Purple.</td>
<td>no</td>
<td>105</td>
<td>1,500,000</td>
</tr>
<tr>
<td>7</td>
<td>270</td>
<td>31</td>
<td>Crimson and Steel Gray.</td>
<td>The Index</td>
<td>yes</td>
<td>155</td>
<td>1,000,000</td>
</tr>
<tr>
<td>5</td>
<td>840</td>
<td>28</td>
<td>Black and Old Gold.</td>
<td>Yale Banner</td>
<td>no</td>
<td>155</td>
<td>1,000,000</td>
</tr>
</tbody>
</table>
COURSES
COURSES OF STUDY at
MASSACHUSETTS INSTITUTE
of TECHNOLOGY

i. Civil Engineering
ii. Mechanical Engineering
iii. Mining Engineering and Metallurgy
iv. Architecture
v. Chemistry
vi. Electrical Engineering
vii. Biology
viii. Physics
ix. General Studies
x. Chemical Engineering
xi. Sanitary Engineering
xii. Geology
xiii. Naval Architecture
LIST OF STUDENTS
# List of Students

<table>
<thead>
<tr>
<th>Name and Fraternity</th>
<th>Course</th>
<th>Class</th>
<th>Home Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbot, Joseph Robertson</td>
<td></td>
<td>'04</td>
<td>Coates House, Kansas City, Mo.</td>
</tr>
<tr>
<td>Ackerman, Alexander Seymour</td>
<td></td>
<td>S.</td>
<td>24 Eagle St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Adams, Charles W., X. Φ.</td>
<td></td>
<td>S.</td>
<td>60 State St., Montpelier, Vt.</td>
</tr>
<tr>
<td>Adams, Ralph Emerson</td>
<td>VI.</td>
<td>'04</td>
<td>91 Arlington St., S. Fram'gh'm, Mass.</td>
</tr>
<tr>
<td>Adams, Walter Holbrook</td>
<td>II.</td>
<td>'03</td>
<td>22 Dix St., Winchester, Mass.</td>
</tr>
<tr>
<td>Aguilar, José Hilario</td>
<td></td>
<td>'04</td>
<td>Hermosillo, Mex.</td>
</tr>
<tr>
<td>Albiston, Clayton</td>
<td>II.</td>
<td>'01</td>
<td>1 Seventh St., New Bedford, Mass.</td>
</tr>
<tr>
<td>Aldrich, Chester Stanley</td>
<td>II.</td>
<td>'03</td>
<td>140 Oak St., Indian Orchard, Mass.</td>
</tr>
<tr>
<td>Aldrich, William Truman</td>
<td>I.</td>
<td>'03</td>
<td>24 Virginia St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Allbright, Edwin Francis</td>
<td>II.</td>
<td>'03</td>
<td>34 Ashford St., Allston, Mass.</td>
</tr>
<tr>
<td>Allen, Arthur Benjamin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allen, Carlton Brigham</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allen, Clarence Mason</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allen, Frank David</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allen, Harry Vass, B. S., Σ. A. E.</td>
<td></td>
<td>'02</td>
<td>Barre, Mass.</td>
</tr>
<tr>
<td>Allen, Robert Chase, B. S., Σ. A. E.</td>
<td></td>
<td>'01</td>
<td>E. Warren St., Gloucester, Mass.</td>
</tr>
<tr>
<td>Allyn, Alfred Warren, Φ. Γ. Δ.</td>
<td></td>
<td>'01</td>
<td>E. Bridgewater, Mass.</td>
</tr>
<tr>
<td>Ames, Henry Allison</td>
<td>IV.</td>
<td>'02</td>
<td>16 Allyn Place, Lawrence, Mass.</td>
</tr>
<tr>
<td>Anderson, Frederick Sanford</td>
<td>I.</td>
<td>'01</td>
<td>43 Fair St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Andrew, Robert</td>
<td></td>
<td>S.</td>
<td>West Haven, Conn.</td>
</tr>
<tr>
<td>Andrews, William Alvin</td>
<td>II.</td>
<td>'04</td>
<td>12 Sargent St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Annett, Cecil Bancroft</td>
<td>II.</td>
<td>'02</td>
<td>E. Jaffrey, N. H.</td>
</tr>
<tr>
<td>Appleton, Allen Lansing, Χ. Φ.</td>
<td>XIII.</td>
<td>'02</td>
<td>313 Maple St., Springfield, Mass.</td>
</tr>
<tr>
<td>Appleton, William Cornell, Θ. Ξ.</td>
<td>IV.</td>
<td>'01</td>
<td>Auburn, R. I.</td>
</tr>
<tr>
<td>Armstrong, Samuel Ellsworth</td>
<td></td>
<td>'04</td>
<td>91 Summer St., Somerville, Mass.</td>
</tr>
<tr>
<td>Arnold, Albert Heber Bailey</td>
<td>V.</td>
<td>'01</td>
<td>31 Waumbeck St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Arsem, William Collins</td>
<td></td>
<td>'01</td>
<td>15 Clinton St., Malden, Mass.</td>
</tr>
<tr>
<td>Asano, Kasaku</td>
<td></td>
<td>S.</td>
<td>Tokio, Japan.</td>
</tr>
<tr>
<td>Atkins, George Edwin, Φ. B. E.</td>
<td></td>
<td>'04</td>
<td>1047 Waln't St., Newt'n H'lds,Mass.</td>
</tr>
</tbody>
</table>

318
<table>
<thead>
<tr>
<th>Name and Fraternity</th>
<th>Course</th>
<th>Class</th>
<th>Home Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atwood, George Desler, Σ. X.</td>
<td>II. '03</td>
<td>Rock, Mass.</td>
<td></td>
</tr>
<tr>
<td>Atwood, Ichabod Francis</td>
<td>II. '03</td>
<td>Rock, Mass.</td>
<td></td>
</tr>
<tr>
<td>Auer, Charles Israel</td>
<td>III. '01</td>
<td>818 Richmond St., Cincinnati, O.</td>
<td></td>
</tr>
<tr>
<td>Averill, Barr Cushing, Σ. X.</td>
<td>S.</td>
<td>Beaumont, Tex.</td>
<td></td>
</tr>
<tr>
<td>Avery, Charles Henry</td>
<td>S.</td>
<td>346 Crofts St., Newtonville, Mass.</td>
<td></td>
</tr>
<tr>
<td>Avery, Francis Deane</td>
<td>S.</td>
<td>Buckland, Mass.</td>
<td></td>
</tr>
<tr>
<td>Avery, Winthrop Chandler</td>
<td>S.</td>
<td>So. Lancaster, Mass.</td>
<td></td>
</tr>
<tr>
<td>Ayers, Frederic Chesley</td>
<td>S.</td>
<td>11 Forest St., Roxbury, Mass.</td>
<td></td>
</tr>
<tr>
<td>Aylsworth, Joseph Wheeler</td>
<td>II. '03</td>
<td>5 Everett St., Newport, R. I.</td>
<td></td>
</tr>
<tr>
<td>Babcock, Frank Gilbert</td>
<td>S.</td>
<td>Tolland, Conn.</td>
<td></td>
</tr>
<tr>
<td>Babson, Roger Derby</td>
<td>III. '03</td>
<td>3 Derby St., Gloucester, Mass.</td>
<td></td>
</tr>
<tr>
<td>Bacon, Herbert Morton</td>
<td>S.</td>
<td>13 Morris St., Hartford, Conn.</td>
<td></td>
</tr>
<tr>
<td>Baetjer, Howard, A. B.</td>
<td>S.</td>
<td>2324 Callow Ave., Baltimore, Md.</td>
<td></td>
</tr>
<tr>
<td>Bailey, Eric Waldorf</td>
<td>S.</td>
<td>83 Inman St., Cambridgeport, Mass.</td>
<td></td>
</tr>
<tr>
<td>Bailey, Robert William</td>
<td>XIII. '01</td>
<td>30 West 25th St., New York, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Baker, Andrew Percy</td>
<td>I. '03</td>
<td>Kingston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Baker, Edward Sherman, Φ. Γ. Δ.</td>
<td>I. '02</td>
<td>26 School St., Dedham, Mass.</td>
<td></td>
</tr>
<tr>
<td>Baker, Horace Singer</td>
<td>I. '03</td>
<td>1325 Judson Ave., Evanston, Ill.</td>
<td></td>
</tr>
<tr>
<td>Baker, James McFarlan</td>
<td>IV. '02</td>
<td>202 Livingston St., Brooklyn, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Baker, Joseph Cheney</td>
<td>'04</td>
<td>332 Delaware St., Syracuse, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Baker, Ralph Hubert</td>
<td>'04</td>
<td>11 Sunnyside Ave., Winthrop, Mass.</td>
<td></td>
</tr>
<tr>
<td>Baker, Sheldon King</td>
<td>I. '03</td>
<td>1128 Columbia Road, Wash., D. C.</td>
<td></td>
</tr>
<tr>
<td>Baldwin, James Ramford</td>
<td>'04</td>
<td>12 Elm St., Woburn, Mass.</td>
<td></td>
</tr>
<tr>
<td>Ballard, Joseph William</td>
<td>II. '02</td>
<td>Griswoldville, Mass.</td>
<td></td>
</tr>
<tr>
<td>Ballou, Roland Hunnewell, Σ. A. E.</td>
<td>VI. '03</td>
<td>16 Harris Ave., Woonsocket, R. I.</td>
<td></td>
</tr>
<tr>
<td>Barber, William</td>
<td>S.</td>
<td>Colorado Springs, Colo.</td>
<td></td>
</tr>
<tr>
<td>Barnaby, George Albert</td>
<td>III. '03</td>
<td>25 Oak St., Peabody, Mass.</td>
<td></td>
</tr>
<tr>
<td>Barrett, Charles Frederic</td>
<td>'04</td>
<td>Waverly St., Belmont, Mass.</td>
<td></td>
</tr>
<tr>
<td>Barrows, Allan Hanscom</td>
<td>X. '03</td>
<td>Reading, Mass.</td>
<td></td>
</tr>
<tr>
<td>Barter, Henry Alexander</td>
<td>V. '03</td>
<td>92 Park St., Portland, Me.</td>
<td></td>
</tr>
<tr>
<td>Bartlett, Arthur Warren</td>
<td>'04</td>
<td>205 Merrimac St., Newh'yp't, Mass.</td>
<td></td>
</tr>
<tr>
<td>Bartlett, Homer Eugene</td>
<td>IV. '02</td>
<td>20 Wesleyan St., No. Adams, Mass.</td>
<td></td>
</tr>
<tr>
<td>Bary, Dmitri Benjamin</td>
<td>'04</td>
<td>963 Main St., Melrose HT'ds, Mass.</td>
<td></td>
</tr>
<tr>
<td>Bascom, Alvin Perry</td>
<td>'04</td>
<td>21 Champlain St., Rochester, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Bass, Frederic Herbert</td>
<td>XI. '01</td>
<td>81 Maple St., Hyde Park, Mass.</td>
<td></td>
</tr>
<tr>
<td>Bassett, William Manning</td>
<td>I. '02</td>
<td>65 St. Botolph St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Bateman, George William</td>
<td>II. '03</td>
<td>27 Cushing St., Cambridge, Mass.</td>
<td></td>
</tr>
<tr>
<td>Bates, Charles Lynn</td>
<td>I. '03</td>
<td>66 Ellery St., Cambridge, Mass.</td>
<td></td>
</tr>
<tr>
<td>Bates, George Martin</td>
<td>'04</td>
<td>Windham, Conn.</td>
<td></td>
</tr>
<tr>
<td>Baum, Kenneth Michael</td>
<td>'04</td>
<td>Claremont, N. H.</td>
<td></td>
</tr>
<tr>
<td>Baxter, Francis Kernan, Jr., Δ. K. E.</td>
<td>III. '01</td>
<td>62 Lansing St., Utica, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Baxter, Samuel Elmer</td>
<td>'04</td>
<td>40 Barker St., Keene, N. H.</td>
<td></td>
</tr>
<tr>
<td>Bay, William Johnston</td>
<td>'04</td>
<td>9 Everett Ave., Dorchester, Mass.</td>
<td></td>
</tr>
<tr>
<td>Beach, Albert Lawrence</td>
<td>V. '01</td>
<td>Milton, Mass.</td>
<td></td>
</tr>
<tr>
<td>Beckwith, Edward Pierrepoint, Δ. Ψ.</td>
<td>'04</td>
<td>13 Payson Ave., Dorchester, Mass.</td>
<td></td>
</tr>
<tr>
<td>Bee, Albert Wilson, Jr.</td>
<td>XI. '02</td>
<td>14 Prospect St., Winchester, Mass.</td>
<td></td>
</tr>
<tr>
<td>Belcher, Donald Minor, Σ. A. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>Belcher, Edward Browne</td>
<td>II.</td>
<td>'01</td>
<td>148 Hawthorne St., Malden, Mass.</td>
</tr>
<tr>
<td>Bennett, Arthur Francis</td>
<td>III.</td>
<td>'03</td>
<td>Wayland, Mass.</td>
</tr>
<tr>
<td>Benson, Stuart Wells</td>
<td></td>
<td></td>
<td>1526 So. State St., Syracuse, N. Y.</td>
</tr>
<tr>
<td>Beverstock, Charles Whitney</td>
<td>I.</td>
<td>'03</td>
<td>37 Prospect St., Keene, N. H.</td>
</tr>
<tr>
<td>Bickford, Warren Ira, Δ. T.</td>
<td>VI.</td>
<td>'01</td>
<td>2511 K St. N. W., Washinton, D. C.</td>
</tr>
<tr>
<td>Bigelow, Lyman Herbert</td>
<td>I.</td>
<td>'01</td>
<td>376 Main St., Charlestown, Mass.</td>
</tr>
<tr>
<td>Biggi, Frederic Anthony</td>
<td></td>
<td>'04</td>
<td>166 Salem St., Boston, Mass.</td>
</tr>
<tr>
<td>Bilyea, Carl Thompson, X. Φ.</td>
<td>S.</td>
<td></td>
<td>Watertown, N. Y.</td>
</tr>
<tr>
<td>Birks, Arthur Henry</td>
<td>IV.</td>
<td>'01</td>
<td>141 High St., Peoria, Ill.</td>
</tr>
<tr>
<td>Bixby, William Peet</td>
<td>'04</td>
<td>55 Elm St., Woburn, Mass.</td>
<td></td>
</tr>
<tr>
<td>Blanchard, Harold, A. B.</td>
<td>S.</td>
<td>8 Gloucester St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Blanchard, Husie Templeton</td>
<td>S.</td>
<td>76 Washington St., Concord, N. H.</td>
<td></td>
</tr>
<tr>
<td>Blatt, Herman Otto, Σ. A. E.</td>
<td>II.</td>
<td>'03</td>
<td>Lead City, S. D.</td>
</tr>
<tr>
<td>Blauvelt, William Grove, A.B.</td>
<td>VI.</td>
<td>'02</td>
<td>370 Austin St., W. Newton, Mass.</td>
</tr>
<tr>
<td>Bledgett, George Raymond</td>
<td></td>
<td>'04</td>
<td>3245 Groveland Ave., Chicago, Ill.</td>
</tr>
<tr>
<td>Blum, Barmard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boardman, Charles</td>
<td>XIII.</td>
<td>S.</td>
<td>388 Marlboro' St., Boston, Mass.</td>
</tr>
<tr>
<td>Boardman, Charles Henry, Jr.</td>
<td>IV.</td>
<td>'02</td>
<td>53 Breed St., Lynn, Mass.</td>
</tr>
<tr>
<td>Boggs, William Brenton</td>
<td></td>
<td>'04</td>
<td>1527 Eye St., Washington, D. C.</td>
</tr>
<tr>
<td>Bolster, Roy Hale</td>
<td>VI.</td>
<td>'01</td>
<td>10 Cobden St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Bond, Frederick Henry, Jr.</td>
<td></td>
<td>'01</td>
<td>31 Longwood A v., Brookline, Mass.</td>
</tr>
<tr>
<td>Bonnemort, Charles Judson</td>
<td>I.</td>
<td>'02</td>
<td>Walnut Hill, Mass.</td>
</tr>
<tr>
<td>Borden, Norman Easton</td>
<td>II.</td>
<td>'02</td>
<td>19 Chestnut St., Salem, Mass.</td>
</tr>
<tr>
<td>Bosworth, Harold Otis, Σ. A. E.</td>
<td>X.</td>
<td>'02</td>
<td>1331 Gilpin St., Denver, Colo.</td>
</tr>
<tr>
<td>Bouscareen, Gustave, Jr., A.B., Δ. Ψ.</td>
<td></td>
<td>'04</td>
<td>1800 Josephine St., Cincinnati, O.</td>
</tr>
<tr>
<td>Bowers, Daniel Hix Cudworth</td>
<td></td>
<td>'04</td>
<td>36 Pine St., Taunton, Mass.</td>
</tr>
<tr>
<td>Boyd, Frederic Roy Courtenay</td>
<td>VI.</td>
<td>'01</td>
<td>389 Main St., Hartford, Conn.</td>
</tr>
<tr>
<td>Boyle, John, Jr.</td>
<td>III.</td>
<td>'01</td>
<td>259 Merrimac St., Newbly'pt, Mass.</td>
</tr>
<tr>
<td>Boynton, Perkins</td>
<td></td>
<td>S.</td>
<td>Newtonville, Mass.</td>
</tr>
<tr>
<td>Bradley, Francis</td>
<td>II.</td>
<td>'02</td>
<td>35 Longwood Ave., Brookline, Mass.</td>
</tr>
<tr>
<td>Bradley, Franklin Sawyer, Δ. T.</td>
<td></td>
<td>S.</td>
<td>Dover, N. H.</td>
</tr>
<tr>
<td>Bradley, Stephen Lawrence</td>
<td>I.</td>
<td>'02</td>
<td>42 Oak Ave., W. Newton, Mass.</td>
</tr>
<tr>
<td>Braizer, Erasmus LeRoy</td>
<td></td>
<td>'04</td>
<td>455 Hansberry St., Germantown, Pa.</td>
</tr>
<tr>
<td>Breath, Howard, X. Φ.</td>
<td>S.</td>
<td>'04</td>
<td>408 Pike St., Cincinnati, O.</td>
</tr>
<tr>
<td>Brewer, Charles Duncan</td>
<td>III.</td>
<td>'02</td>
<td>427 W. 3rd St., Duluth, Minn.</td>
</tr>
<tr>
<td>Brickley, William Joseph</td>
<td></td>
<td>S.</td>
<td>68 Tremont St., Charlestown, Mass.</td>
</tr>
<tr>
<td>Bridges, John Samuel, Jr.</td>
<td>XIII.</td>
<td>'03</td>
<td>Charles St., Baltimore, Md.</td>
</tr>
<tr>
<td>Briggs, George Wright</td>
<td></td>
<td>'04</td>
<td>86 Winthrop St., Taunton, Mass.</td>
</tr>
<tr>
<td>Briggs, John Porter</td>
<td>I.</td>
<td>'01</td>
<td>Plymouth, Mass.</td>
</tr>
<tr>
<td>Brigham, Charles Howard</td>
<td></td>
<td>'04</td>
<td>74 Main St., Marlboro, Mass.</td>
</tr>
<tr>
<td>Brigham, Edmond Francis</td>
<td>X.</td>
<td>'01</td>
<td>Hartford St., Newton N'Y's, Mass.</td>
</tr>
<tr>
<td>Bright, George, Jr., X. Φ.</td>
<td>III.</td>
<td>'02</td>
<td>302 Mahantongo St., Pottsville, Pa.</td>
</tr>
<tr>
<td>Brodie, Matthew</td>
<td>II.</td>
<td>'02</td>
<td>260 Farrington A v., St. Paul, Minn.</td>
</tr>
<tr>
<td>Broome, George Wiley, Jr.</td>
<td>S.</td>
<td>Hotel Beers, St. Louis, Mo.</td>
<td></td>
</tr>
<tr>
<td>Brown, Frank Zenas</td>
<td>VI.</td>
<td>'02</td>
<td>408 E. Clay St., Richmond, Va.</td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Brown, James Hugh</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown, John Franklin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown, John Lupon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown, Moses, Jr.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown, Robert Huse, B.S.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown, Robert Vaughan, Σ. A. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown, Sumner Edwin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown, Walter Stanley</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown, William Nathaniel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brownell, John Randolph</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bruce, Robert Ernest</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brush, Matthew Chauncey, Δ. K. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bryan, Clark Albert</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buck, Robert Wallace</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buckley, James Patrick, Jr.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bucklin, Milton POLLARD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buhler, Henry Waldeck</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bull, Freeman Nelson</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bull, Harcourt Wesson, Δ. Ψ.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burdick, Edwin Parks, Σ. A. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burdick, Herbert Clemens</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burnham, Leonard Preston</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burnham, William Winslow, Σ. A. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burns, Findley, Δ. Ψ.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burr, Charles Henry</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burrows, John Shober, Σ. X.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Butler, Arthur Frank</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Butler, Lawrence Smith, A. B.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Butters, Charles Milton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cadé, Charles Walker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cady, Francis Elmore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cady, Frank Lippett</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calkins, Ernest Wilber, Jr.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calley, Walter England</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calnan, John William Joseph</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Campau, Antoine Blackwell</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Campbell, Charles Francis Faulkner</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canby, Harry Beaver, A.B, Σ. X.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capelle, George Curtis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capen, Bernard Winslow</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Card, John F., Δ. K. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carhart, Clem Clare</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carmichael, George Patrick, A.B.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carpenter, Flavel Wilson</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carr, James Henry</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carter, George William</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carty, Francis James</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carty, Walter Maurice</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casani, Albert Aeneas</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**321**
<table>
<thead>
<tr>
<th>Name and Fraternity</th>
<th>Course</th>
<th>Class</th>
<th>Home Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chace, Carll Smith</td>
<td></td>
<td></td>
<td>'04 31 Wales St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Chace, Franklin Murphy</td>
<td></td>
<td></td>
<td>'04 31 Wales St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Chalifoux, Paul Ernest, Φ. B. E.</td>
<td></td>
<td></td>
<td>S. 377 Wilder St., Lowell, Mass.</td>
</tr>
<tr>
<td>Chalmers, Harry Bishop</td>
<td></td>
<td></td>
<td>X. '01 332 East 88th St., New York, N. Y.</td>
</tr>
<tr>
<td>Chamberlin, Noel</td>
<td></td>
<td></td>
<td>S. Parker Hill, Roxbury, Mass.</td>
</tr>
<tr>
<td>Chambers, Henry Wick, A.B.</td>
<td></td>
<td></td>
<td>S. 977 Prospect St., Cleveland, O.</td>
</tr>
<tr>
<td>Champagne, George Henry</td>
<td></td>
<td></td>
<td>S. Maynard, Mass.</td>
</tr>
<tr>
<td>Chandler, Howard Truman</td>
<td>II.</td>
<td>'01</td>
<td>32 Oakridge St., Mattapan, Mass.</td>
</tr>
<tr>
<td>Chandler, Leonard Dexter</td>
<td>II.</td>
<td>'03</td>
<td>45 Jacques St., Somerville, Mass.</td>
</tr>
<tr>
<td>Chapin, Willard Dalrymple</td>
<td></td>
<td></td>
<td>'04 45 Jacques St., Somerville, Mass.</td>
</tr>
<tr>
<td>Chapin, Harry Gardner</td>
<td></td>
<td></td>
<td>'04 20½ Congress St., Greenfield, Mass.</td>
</tr>
<tr>
<td>Chapin, Henry Kent, X. F.</td>
<td></td>
<td></td>
<td>'04 476 W. State St., Chicago, Ill.</td>
</tr>
<tr>
<td>Chapin, John Endicott, A.B.</td>
<td></td>
<td></td>
<td>S. 452 N. San Pedro St., San Jose, Calif.</td>
</tr>
<tr>
<td>Chapman, Eben Lord</td>
<td>I.</td>
<td>'01</td>
<td>Franklin Falls, N. H.</td>
</tr>
<tr>
<td>Chapman, Harlen Monroe</td>
<td>V.</td>
<td>'02</td>
<td>Turners Falls, Mass.</td>
</tr>
<tr>
<td>Chase, Charles Edward</td>
<td>I.</td>
<td>'03</td>
<td>69 Pleasant St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Chase, Frank David</td>
<td>I.</td>
<td>'01</td>
<td>Chicago, Ill.</td>
</tr>
<tr>
<td>Cheney, John Tyrrell, Φ. B. E.</td>
<td></td>
<td></td>
<td>S. Kenilworth, Ill.</td>
</tr>
<tr>
<td>Childs, Arthur Ramsey</td>
<td>I.</td>
<td>'01</td>
<td>109 Berkley St., Lawrence, Mass.</td>
</tr>
<tr>
<td>Church, Albert Thomas</td>
<td>XIII.</td>
<td>'01</td>
<td>26 Holborn St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Church, Edwin Fayette, Jr.</td>
<td>I.</td>
<td>'01</td>
<td>98 Main St., Hopkinton, Mass.</td>
</tr>
<tr>
<td>Claflin, Fred Winslow</td>
<td></td>
<td></td>
<td>S. 179 Boston St., So. Boston, Mass.</td>
</tr>
<tr>
<td>Clapp, Frederick Gardner</td>
<td>I.</td>
<td>'03</td>
<td>3 Gardner Place, Leominster, Mass.</td>
</tr>
<tr>
<td>Clapp, George Huntington</td>
<td>IV.</td>
<td>'01</td>
<td>10 Oxford St., Worcester, Mass.</td>
</tr>
<tr>
<td>Clark, Burton Stedman, Φ. Γ. Δ.</td>
<td></td>
<td></td>
<td>S. 72 Marginal St., E. Boston, Mass.</td>
</tr>
<tr>
<td>Clark, George Adams</td>
<td>VI.</td>
<td>'03</td>
<td>186 Broadway, Everett, Mass.</td>
</tr>
<tr>
<td>Clark, George Howard</td>
<td>V.</td>
<td>'03</td>
<td>Bedroom, Mass.</td>
</tr>
<tr>
<td>Clark, Myron Henry</td>
<td></td>
<td></td>
<td>'04 48 Western Ave., C'lumb'dgep't, Mass.</td>
</tr>
<tr>
<td>Clark, Lewis Cutler, Jr.</td>
<td></td>
<td></td>
<td>'04 Yale &amp; Matlly Ays., New Haven, Ct.</td>
</tr>
<tr>
<td>Clements, Chauncey Houston</td>
<td></td>
<td></td>
<td>'04 23 Avon St., Wakefield, Mass.</td>
</tr>
<tr>
<td>Clough, Leslie</td>
<td></td>
<td></td>
<td>'04 75 Farnham St., Lawrence, Mass.</td>
</tr>
<tr>
<td>Clough, Walter Henry</td>
<td>IV.</td>
<td>'03</td>
<td>Pt. Williams Sta., N. S.</td>
</tr>
<tr>
<td>Cobb, Andrew Randall</td>
<td></td>
<td>'04</td>
<td>63 No. Main St., Natick, Mass.</td>
</tr>
<tr>
<td>Cobb, Freeman Adams</td>
<td></td>
<td></td>
<td>S. Brattleboro, Vt.</td>
</tr>
<tr>
<td>Coburn, Charles Bertrand, S.B.</td>
<td></td>
<td></td>
<td>X. '01 277 E. Merrimack St., Lowell, Mass.</td>
</tr>
<tr>
<td>Coburn, Frederick Ward</td>
<td>VI.</td>
<td>'02</td>
<td>158 Washington St., Malden, Mass.</td>
</tr>
<tr>
<td>Coburn, Lawrence Gardiner</td>
<td></td>
<td></td>
<td>'04 911 Scott St., Little Rock, Ark.</td>
</tr>
<tr>
<td>Cockrill, Emmet</td>
<td>IV.</td>
<td>'01</td>
<td>84 Wendell St., Cambridge, Mass.</td>
</tr>
<tr>
<td>Colby, Frank Arnold</td>
<td></td>
<td></td>
<td>S. 44 Campau Bldg., Detroit, Mich.</td>
</tr>
<tr>
<td>Cole, Charles Stinchfield, Ζ. X.</td>
<td></td>
<td></td>
<td>VI. '02 Springfield, N. B.</td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------</td>
<td>-------</td>
<td>--------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>Medway, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S.</td>
<td>Veterans' Home, Napa Co., Cal.</td>
</tr>
<tr>
<td>Collins, Richard Vincent</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>de Colmesnil, George Taylor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comer, Ernest Albert</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comins, Waldo Hunter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comstock, Daniel Frost</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conant, William Horace</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connolly, Fred William</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conway, Charles Joseph</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cook, Robert Avery</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cook, Walter Lorrain, X. Φ.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooper, Claudius Howard, Δ. T.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooper, Edgar Bailey, Φ. B. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooper, Mayes, Σ. A. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copeland, Durward</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coupe, Alfred Lawrence</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courtney, Allan Seymour</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cox, Charles Barrows</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cox, Frank Gardner, Σ. A. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crane, Edwin Rogers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crane, Harold Gilland</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crary, Fulton, Φ. B. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Craven, Walter Sydney</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crocker, Frederic William</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cronenbold, Ernest John</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cronin, Walter Louis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cronin, William Walter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crosby, Fred Bickford</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crosby, Hewitt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crosby, John William</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cross, Frederick Cushing, Φ. B. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cross, Harold Newton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crouch, Leon Edward</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crowell, Allan Webb</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crowell, Harry Clifford</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crowell, Joseph Warren</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crowell, Louis Austin, Σ. A. E.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crowell, Will Ransom</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crowell, William DeForrest</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crull, Clifton Gustavas</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Culp, Charles Miller, Ph.B.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cummins, Harle Oren, Σ. X.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cunningham, John Earl</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Currey, Harold Young</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Currier, James Swasey</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Currier, Warren Franklin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Curtis, Charles Warren</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Curtis, George Alden</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Curtis, Walter Molbray</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>III.</td>
<td>'02</td>
<td>Glen Ridge, N. J.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S.</td>
<td>Marion, Ind.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>3 Wellington St., Boston, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S.</td>
<td>1436 Dorchester Ave., Dor., Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S.</td>
<td>21 Torrey St., S. Framingham, Mass.</td>
</tr>
<tr>
<td></td>
<td>I.</td>
<td>'03</td>
<td>93 Prospect St., Woonsocket, R. I.</td>
</tr>
<tr>
<td></td>
<td>III.</td>
<td>'02</td>
<td>Burlington, Jo.</td>
</tr>
<tr>
<td></td>
<td>III.</td>
<td>'03</td>
<td>Houghton, Mich.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>4 Akron St., Roxbury, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S.</td>
<td>Wahlian &amp; Delmar Ave., Mpls., Tenn.</td>
</tr>
<tr>
<td></td>
<td>III.</td>
<td>'03</td>
<td>69 Marlboro St., Chelsea, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>9 Highland Place, Plymouth, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>46 Vista Ave, Auburndale, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'03</td>
<td>106 Washington St., Newton, Mass.</td>
</tr>
<tr>
<td></td>
<td>II.</td>
<td>'03</td>
<td>248 Maple St., Holyoke, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>Newton Highlands, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>40 Front St., Adrian, Mich.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>26 Davis Place, Poughkeepsie, N.Y.</td>
</tr>
<tr>
<td></td>
<td>III.</td>
<td>'03</td>
<td>Libby, Mont.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>22 Copley St., Roxbury, Mass.</td>
</tr>
<tr>
<td></td>
<td>XIII.</td>
<td>'03</td>
<td>New York, N. Y.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>56 P St., So. Boston, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>923 W. Genesee St., Syracuse, N. Y.</td>
</tr>
<tr>
<td></td>
<td>VI.</td>
<td>'03</td>
<td>Woodville, N. H.</td>
</tr>
<tr>
<td></td>
<td>XIII.</td>
<td>'03</td>
<td>14 Irving Place, Brooklyn, N. Y.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S.</td>
<td>19 Nassau St., Boston, Mass.</td>
</tr>
<tr>
<td></td>
<td>IX.</td>
<td>'01</td>
<td>428 Main St., Fitchburg, Mass.</td>
</tr>
<tr>
<td></td>
<td>XI.</td>
<td>'03</td>
<td>Exeter, N. H.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S.</td>
<td>W. Warren, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S.</td>
<td>20 7th St., New Bedford, Mass.</td>
</tr>
<tr>
<td></td>
<td>I.</td>
<td>'03</td>
<td>12 Mt. Vernon St., Salem, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>Newton, Mass.</td>
</tr>
<tr>
<td></td>
<td>I.</td>
<td>'01</td>
<td>E. Dennis, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>810 Beacon St., Los Angeles, Cal.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S.</td>
<td>285 Dudley St., Roxbury, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>Davenport, To.</td>
</tr>
<tr>
<td></td>
<td>I.</td>
<td>'01</td>
<td>Raymond, Ill.</td>
</tr>
<tr>
<td></td>
<td>III.</td>
<td>'01</td>
<td>54 College St., Montpelier, Vt.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>1309 Calvert St., Baltimore, Md.</td>
</tr>
<tr>
<td></td>
<td>II.</td>
<td>'02</td>
<td>1308 Judson Ave., Evanston, Ill.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>18 Chapel St., Newport, Mass.</td>
</tr>
<tr>
<td></td>
<td>V.</td>
<td>'03</td>
<td>E. Kingston, N. H.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S.</td>
<td>433 Central St., Lowell, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'04</td>
<td>No. Hanover, Mass.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S.</td>
<td>54 Park Ave., Whitman, Mass.</td>
</tr>
</tbody>
</table>

323
<table>
<thead>
<tr>
<th>Name and Fraternity</th>
<th>Course</th>
<th>Class</th>
<th>Home Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curtiss, John Lee, Φ. B. E.</td>
<td>VI.</td>
<td>'02</td>
<td>Fishkill-on-Hudson, N. Y.</td>
</tr>
<tr>
<td>Cushman, James Allerton</td>
<td>I.</td>
<td>'03</td>
<td>14 Clifton St., Taunton, Mass.</td>
</tr>
<tr>
<td>Cutter, Edward Henry, Σ. A. E.</td>
<td>II.</td>
<td>'02</td>
<td>6516 Harvard Ave., Chicago, Ill.</td>
</tr>
<tr>
<td>Cutting, Robert Curtis</td>
<td>'04</td>
<td></td>
<td>Weston, Mass.</td>
</tr>
<tr>
<td>Daloz, Laurent Esaié</td>
<td>S.</td>
<td></td>
<td>38 Pleasant St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Daly, Herbert Francis</td>
<td>S.</td>
<td></td>
<td>83 Dartmouth St., Boston, Mass.</td>
</tr>
<tr>
<td>Damon, John Churchill</td>
<td>'04</td>
<td></td>
<td>Concord, Mass.</td>
</tr>
<tr>
<td>Danforth, Newman Loring, Σ. A. E.</td>
<td>II.</td>
<td>'01</td>
<td>428 Norwood Ave., Buffalo, N. Y.</td>
</tr>
<tr>
<td>Daniels, Robert Weaton</td>
<td>S.</td>
<td></td>
<td>16 Harrison St., Brookline, Mass.</td>
</tr>
<tr>
<td>Darling, Willis Roy</td>
<td>'04</td>
<td></td>
<td>85 Magnolia St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Dart, Albert Charles, Jr.</td>
<td>III.</td>
<td>'01</td>
<td>Rock Island, Ill.</td>
</tr>
<tr>
<td>Dart, Harry Edison</td>
<td>VI.</td>
<td>'01</td>
<td>45 Howard St., New London, Conn.</td>
</tr>
<tr>
<td>Davidson, William Frederick</td>
<td></td>
<td>V.</td>
<td>9 E. Wallace Ave., New Castle, Pa.</td>
</tr>
<tr>
<td>Davis, Arthur Colby</td>
<td>'01</td>
<td></td>
<td>146 Wash. St., Gloucester, Mass.</td>
</tr>
<tr>
<td>Davis, Francis Woodward, Χ. Φ.</td>
<td>I.</td>
<td>'03</td>
<td>286 Highl'd Av., W. Newton, Mass.</td>
</tr>
<tr>
<td>Davis, Frank Howard</td>
<td>'04</td>
<td></td>
<td>118 Huntington Ave., Boston, Mass.</td>
</tr>
<tr>
<td>Davis, Harold Henry</td>
<td>VI.</td>
<td>'01</td>
<td>Chelmsford, Mass.</td>
</tr>
<tr>
<td>Davis, Henry Rand</td>
<td>'04</td>
<td></td>
<td>261 Lafayette St., Salem, Mass.</td>
</tr>
<tr>
<td>Davis, Oliver Marcy</td>
<td>S.</td>
<td></td>
<td>132 Train St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Davis, Walter Poore</td>
<td>III.</td>
<td>'01</td>
<td>9 Fair St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Davison, Thomas</td>
<td>S.</td>
<td></td>
<td>Johnstown, Pa.</td>
</tr>
<tr>
<td>Dearden, Clinton Merrill</td>
<td>VIII.</td>
<td>'01</td>
<td>58 Lincoln Ave., Fall River, Mass.</td>
</tr>
<tr>
<td>DeBerard, Wilford Willis, B.S.</td>
<td></td>
<td>S.</td>
<td>Fairfax, Iowa.</td>
</tr>
<tr>
<td>Demirkol, Leon Darius</td>
<td>S.</td>
<td></td>
<td>Constantine, Turkey.</td>
</tr>
<tr>
<td>Denham, Howard Sumner</td>
<td>S.</td>
<td></td>
<td>E. Pepperell, Mass.</td>
</tr>
<tr>
<td>Dennie, Robert</td>
<td>'04</td>
<td></td>
<td>13 Seaver St., Stoughton, Mass.</td>
</tr>
<tr>
<td>Dennison, Charles Hamilton</td>
<td>X.</td>
<td>'01</td>
<td>35 Carmel St., Chelsea, Mass.</td>
</tr>
<tr>
<td>Derby, Arthur Lawrence</td>
<td>S.</td>
<td></td>
<td>352 Beacon St., Boston, Mass.</td>
</tr>
<tr>
<td>Derby, Robert Mason, Δ. Ψ.</td>
<td>S.</td>
<td></td>
<td>352 Beacon St., Boston, Mass.</td>
</tr>
<tr>
<td>Dewis, Clifford Sayre</td>
<td>'04</td>
<td></td>
<td>Advocate Harbor, N. S.</td>
</tr>
<tr>
<td>Dillon, Harold Haywood, Σ. A. E.</td>
<td>S.</td>
<td></td>
<td>Hastings, Neb.</td>
</tr>
<tr>
<td>Dimock, Roy Ernest</td>
<td>III.</td>
<td>'03</td>
<td>77 N. Montello St., Brockton, Mass.</td>
</tr>
<tr>
<td>Dodge, Albah Webster</td>
<td>S.</td>
<td></td>
<td>92 Lowell St., Somerville, Mass.</td>
</tr>
<tr>
<td>Dodge, Frank Edward</td>
<td>'04</td>
<td></td>
<td>163 W. Canton St., Boston, Mass.</td>
</tr>
<tr>
<td>Dodge, Lyman Edward</td>
<td>V.</td>
<td>'01</td>
<td>9 Milk St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Dolan, James Stephen</td>
<td>'04</td>
<td></td>
<td>Hampstead Road, Boston, Mass.</td>
</tr>
<tr>
<td>Dole, Myron Wilkinson</td>
<td>S.</td>
<td></td>
<td>104 Pearl St., Fitchburg, Mass.</td>
</tr>
<tr>
<td>Donham, George Hermann</td>
<td>S.</td>
<td></td>
<td>Rockland, Mass.</td>
</tr>
<tr>
<td>Donovan, Jeremiah John, A.B.</td>
<td>S.</td>
<td></td>
<td>West St., Randolph, Mass.</td>
</tr>
<tr>
<td>Donovan, William Henry</td>
<td>II.</td>
<td>'03</td>
<td>287 Highland St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Dooley, William Henry</td>
<td>V.</td>
<td>'01</td>
<td>571 Dudley St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Dooley, John James</td>
<td>S.</td>
<td></td>
<td>804 Parker St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Doran, James Finton</td>
<td>S.</td>
<td></td>
<td>E. Pine St., Waterbury, Conn.</td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Dorr, Edwin Nathan</td>
<td>'04</td>
<td>High &amp; W1'n't Sts., Brookline, Mass.</td>
<td></td>
</tr>
<tr>
<td>Doten, William Leslie</td>
<td>'04</td>
<td>143 Court St., Plymouth, Mass.</td>
<td></td>
</tr>
<tr>
<td>Dow, Daniel Frederick</td>
<td>'04</td>
<td>Atwood House, Melrose, Mass.</td>
<td></td>
</tr>
<tr>
<td>Dow, Richard Ernest</td>
<td>S.</td>
<td>345 Upham St., Melrose, Mass.</td>
<td></td>
</tr>
<tr>
<td>Dow, Willard Wellman, Ph. T. A.</td>
<td>IX.</td>
<td>Alpine St., Malden, Mass.</td>
<td></td>
</tr>
<tr>
<td>Doyle, Edward Leo</td>
<td>'04</td>
<td>24 Thwing St., Roxbury, Mass.</td>
<td></td>
</tr>
<tr>
<td>Drake, Henry Philkins</td>
<td>XI.</td>
<td>W. Medford, Mass.</td>
<td></td>
</tr>
<tr>
<td>Draper, Herbert Kinsley</td>
<td>'04</td>
<td>Canton, Mass.</td>
<td></td>
</tr>
<tr>
<td>Draper, John Howard</td>
<td>'04</td>
<td>Canton, Mass.</td>
<td></td>
</tr>
<tr>
<td>Drew, Alden Glover</td>
<td>'04</td>
<td>70 Myrtle St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Drew, Charles Henry</td>
<td>'04</td>
<td>70 Myrtle St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Driscoll, Francis Blair</td>
<td>I.</td>
<td>7 Michigan Ave., Dorchester, Mass.</td>
<td></td>
</tr>
<tr>
<td>Driscoll, James</td>
<td>S.</td>
<td>71 Centre St., Roxbury, Mass.</td>
<td></td>
</tr>
<tr>
<td>Driver, David Ramsay</td>
<td>'04</td>
<td>Central Ave., Weston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Drury, Walter Maynard</td>
<td>III.</td>
<td>1011 Chicago Ave., Evanston, Ill.</td>
<td></td>
</tr>
<tr>
<td>Dubois, Norman Armin</td>
<td>V.</td>
<td>2029 Bay St., Fall River, Mass.</td>
<td></td>
</tr>
<tr>
<td>Dudley, Henry Harrison</td>
<td>VI.</td>
<td>198 No. Main St., Natick, Mass.</td>
<td></td>
</tr>
<tr>
<td>Duhude, Frederick Joseph</td>
<td>I.</td>
<td>95 Elm St., Woonsocket, R. I.</td>
<td></td>
</tr>
<tr>
<td>Dunham, Milton Cornelius</td>
<td>III.</td>
<td>35 N. Montello St., Brockton, Mass.</td>
<td></td>
</tr>
<tr>
<td>DuPont, Lammot, Ph. B. E.</td>
<td>I.</td>
<td>Wilmington, Del.</td>
<td></td>
</tr>
<tr>
<td>Durbin, Joseph Wilbur</td>
<td>VI.</td>
<td>211 Penn St., Burlington, N. J.</td>
<td></td>
</tr>
<tr>
<td>Durgin, William Andrew</td>
<td>VI.</td>
<td>18 Warwick Ave., Rochester, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Eager, William Hosmer</td>
<td>'04</td>
<td>526 Oak St., Syracuse, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Eames, Jesse Jennings</td>
<td>II.</td>
<td>45 Hollis St., S. Framingham, Mass.</td>
<td></td>
</tr>
<tr>
<td>Eastman, Guy Warner</td>
<td>V.</td>
<td>Washington Barracks, Wash., D. C.</td>
<td></td>
</tr>
<tr>
<td>Eaton, Ralph Waldo</td>
<td>VI.</td>
<td>7 Baltimore St., Haverhill, Mass.</td>
<td></td>
</tr>
<tr>
<td>Eaton, Arthur Herbert</td>
<td>'04</td>
<td>50 Taylor St., Waltham, Mass.</td>
<td></td>
</tr>
<tr>
<td>Eddy, William Osgood</td>
<td>VI.</td>
<td>23 Webster St., Middleboro, Mass.</td>
<td></td>
</tr>
<tr>
<td>Edgecombe, William Hendrik</td>
<td>S.</td>
<td>18 Chestnut St., Waltham, Mass.</td>
<td></td>
</tr>
<tr>
<td>Edes, Edward Louis</td>
<td>'04</td>
<td>Bolton, Mass.</td>
<td></td>
</tr>
<tr>
<td>Edwards, Robert Seaver, A.B.</td>
<td>V.</td>
<td>91 Spring St., Portland, Me.</td>
<td></td>
</tr>
<tr>
<td>Egerton, Charles Ozro</td>
<td>'04</td>
<td>103 No. Main St., Springfield, Mass.</td>
<td></td>
</tr>
<tr>
<td>Elliot, Joseph Kittredge</td>
<td>VI.</td>
<td>N. Andover St., N. Andover, Mass.</td>
<td></td>
</tr>
<tr>
<td>Elmer, Charles Wickersham, Σ. X.</td>
<td>'03</td>
<td>1701 W. Lafayette Ave., Balt., Md.</td>
<td></td>
</tr>
<tr>
<td>Elsaas, Victor Hugo</td>
<td>'04</td>
<td>230 Washington St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Elwell, David</td>
<td>'04</td>
<td>14 Pelham Terrace, Arling'tn, Mass.</td>
<td></td>
</tr>
<tr>
<td>Emerson, Charles Joseph, Δ. K. E.</td>
<td>IV.</td>
<td>89 Park Place, Pawtucket, R. I.</td>
<td></td>
</tr>
<tr>
<td>Emerson, Frank Nelson, A.B.</td>
<td>'04</td>
<td>905 Jefferson Ave., Peoria, Ill.</td>
<td></td>
</tr>
<tr>
<td>Emerson, Merton Leslie</td>
<td>VI.</td>
<td>14 Mt. Vernon Av., Braintree, Mass.</td>
<td></td>
</tr>
<tr>
<td>Endres, Kenneth Windram</td>
<td>'03</td>
<td>48 Kent St., Brookline, Mass</td>
<td></td>
</tr>
<tr>
<td>Enouye, Seisuke</td>
<td>S.</td>
<td>70 Dojuna, Osaka, Japan</td>
<td></td>
</tr>
<tr>
<td>Esterbrooks, Clifton Clark</td>
<td>'04</td>
<td>Peace Dale, R. I.</td>
<td></td>
</tr>
<tr>
<td>Evans, William Haines</td>
<td>II.</td>
<td>500 Pine St., Lockport, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Evans, William Archibald</td>
<td>S.</td>
<td>55 E. Newton St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Everett, Harold Arthur</td>
<td>XIII.</td>
<td>1 Oxford Terrace, Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------</td>
<td>------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Eveleth, Edward Smith</td>
<td></td>
<td></td>
<td>Marblehead, Mass.</td>
</tr>
<tr>
<td>Fairfield, George Albert</td>
<td></td>
<td>'04</td>
<td>3 North St., Saco, Me.</td>
</tr>
<tr>
<td>Fales, Henry Hammett</td>
<td></td>
<td></td>
<td>Pondville, Mass.</td>
</tr>
<tr>
<td>Farmer, Walter Havens, Φ. B. E.</td>
<td></td>
<td>I.</td>
<td>80 Main St., Hartford, Conn.</td>
</tr>
<tr>
<td>Farnham, Frank Rowlins</td>
<td></td>
<td>'02</td>
<td>117 Lake Ave., Newton Ctr., Mass.</td>
</tr>
<tr>
<td>Farnham, William Ellis, Ph. B.</td>
<td></td>
<td></td>
<td>44 Adelaide Ave., Providence, R. I.</td>
</tr>
<tr>
<td>Farrell, Frank Sheridan</td>
<td></td>
<td>'04</td>
<td>Stoughton, Mass.</td>
</tr>
<tr>
<td>Farrell, Frederick William</td>
<td></td>
<td>'04</td>
<td>Stoughton, Mass.</td>
</tr>
<tr>
<td>Faulkner, Robert</td>
<td></td>
<td>'04</td>
<td>Norwell, Mass.</td>
</tr>
<tr>
<td>Fellows, Otis Dwight, Jr.</td>
<td></td>
<td>'04</td>
<td>142 Homer St., Newton Ctr., Mass.</td>
</tr>
<tr>
<td>Ferrin, Henry Abbott</td>
<td></td>
<td>XIII</td>
<td>1315 Middlesex St., Lowell, Mass.</td>
</tr>
<tr>
<td>Ferris, Cyrus Yale</td>
<td></td>
<td>'04</td>
<td>Windsor Road, Waban, Mass.</td>
</tr>
<tr>
<td>Ferris, Mortimer Yale, Χ. Φ.</td>
<td></td>
<td>I.</td>
<td>57 Pleasant St., Newton Ctr., Mass.</td>
</tr>
<tr>
<td>Ferry, Albert Clarke</td>
<td></td>
<td>'04</td>
<td>Dorchester St., S. Boston, Mass.</td>
</tr>
<tr>
<td>Field, Henry Callender, Δ. K. E.</td>
<td></td>
<td>S.</td>
<td>Hicks St., Brooklyn, N. Y.</td>
</tr>
<tr>
<td>Figyelmessey, Haldeman</td>
<td></td>
<td>'03</td>
<td>26 Copeland St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Finer, Percy</td>
<td></td>
<td>S.</td>
<td>219 Ferncliffe Ave., Springfield, O.</td>
</tr>
<tr>
<td>Firey, Milton J., Jr.</td>
<td></td>
<td>VI.</td>
<td>Salem, Mo.</td>
</tr>
<tr>
<td>Fischer, Adolph Louis</td>
<td></td>
<td>'01</td>
<td>112 West St., Hyde Park, Mass.</td>
</tr>
<tr>
<td>Fish, Harold Coburn</td>
<td></td>
<td>S.</td>
<td>Norwood, Mass.</td>
</tr>
<tr>
<td>Fisher, Dana Hollis</td>
<td></td>
<td>'02</td>
<td>Hancock St., Boston, Mass.</td>
</tr>
<tr>
<td>Fitch, Charles Henry</td>
<td></td>
<td>S.</td>
<td>48 Union St., Rockville, Conn.</td>
</tr>
<tr>
<td>Fitch, Walter Spencer</td>
<td></td>
<td>'02</td>
<td>74 Pleasant St., Camb'dgep't, Mass.</td>
</tr>
<tr>
<td>FitzGerald, John Mark</td>
<td></td>
<td></td>
<td>Tiverton, R. I.</td>
</tr>
<tr>
<td>Fleming, Edward Pickering</td>
<td></td>
<td></td>
<td>90 Babcock St., Brookline, Mass.</td>
</tr>
<tr>
<td>Fletcher, Harold Hervey</td>
<td></td>
<td>VI.</td>
<td>Milton, Mass.</td>
</tr>
<tr>
<td>Fletcher, Samuel Adams</td>
<td></td>
<td>'03</td>
<td>Morrison St., W. Roxbury, Mass.</td>
</tr>
<tr>
<td>Flinn, Henry Michael</td>
<td></td>
<td>'04</td>
<td>Beacon St., Waban, Mass.</td>
</tr>
<tr>
<td>Flint, Charles Kimball</td>
<td></td>
<td>I.</td>
<td>4913 Grand Blvd., Chicago, Ill.</td>
</tr>
<tr>
<td>Florsheim, Leonard S.</td>
<td></td>
<td>S.</td>
<td>22 Toppan St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Fogg, Benjamin Greely</td>
<td></td>
<td>'01</td>
<td>Sioux City, Iowa.</td>
</tr>
<tr>
<td>Fogg, Maurice Adams</td>
<td></td>
<td>S.</td>
<td>1732 Pearl St., Denver, Colo.</td>
</tr>
<tr>
<td>Foljambe, Eugene Stillman</td>
<td></td>
<td>VI.</td>
<td>Honolulu, H. I.</td>
</tr>
<tr>
<td>Folsom, Harry Gilman</td>
<td></td>
<td>III.</td>
<td>4842 Washing'tn Ave., Chicago, Ill.</td>
</tr>
<tr>
<td>Foote, Thomas Witherbee, Σ. Χ.</td>
<td></td>
<td>VI.</td>
<td>40 Pomeroy St., Allston, Mass.</td>
</tr>
<tr>
<td>Forbes, Eugene Duncan</td>
<td></td>
<td>'04</td>
<td>34 Essex St., Beverly, Mass.</td>
</tr>
<tr>
<td>Foster, Augustus Clark</td>
<td></td>
<td>VI.</td>
<td>879 Beacon St., Boston, Mass.</td>
</tr>
<tr>
<td>Foster, Mortimer Bristol</td>
<td></td>
<td>X.</td>
<td>Henniker, N. H.</td>
</tr>
<tr>
<td>Foster, Stanley Alfred</td>
<td></td>
<td>'04</td>
<td>58 Winthrop St., W. Newton, Mass.</td>
</tr>
<tr>
<td>Foster, William Houghton</td>
<td></td>
<td>II.</td>
<td>89 Hodge Ave., Buffalo, N. Y.</td>
</tr>
<tr>
<td>Fowler, Theodore Vietor, Jr., Σ. Χ.</td>
<td></td>
<td>S.</td>
<td>1706 Wash. St., Wilmington, Del.</td>
</tr>
<tr>
<td>Francis, George Washington</td>
<td></td>
<td>V.</td>
<td>153 Foster St., Brighton, Mass.</td>
</tr>
<tr>
<td>Franklin, Duncan Rogers</td>
<td></td>
<td>S.</td>
<td>47 Prospect St., Melrose, Mass.</td>
</tr>
<tr>
<td>Franklin, Ralph Stowell, Φ. B. E.</td>
<td></td>
<td>III.</td>
<td>258 Mt. Vernon St., W. N'wt'n, Mass.</td>
</tr>
</tbody>
</table>

326
<table>
<thead>
<tr>
<th>Name and Fraternity</th>
<th>Course</th>
<th>Class</th>
<th>Home Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fremmer, John Arthur</td>
<td>'04</td>
<td>375 Haverhill St., Lawrence, Mass.</td>
<td></td>
</tr>
<tr>
<td>Friend, Alfred William, Φ. Γ. Δ.</td>
<td>VI</td>
<td>'02 Manchester, Mass.</td>
<td></td>
</tr>
<tr>
<td>Frost, Richard Lincoln, Φ. B. E.</td>
<td>II</td>
<td>'02 Lincoln St., Waltham, Mass.</td>
<td></td>
</tr>
<tr>
<td>Fruit, John Clyde, Δ. K. E.</td>
<td>IV</td>
<td>'02 136 S. 13th St., La Crosse, Wis.</td>
<td></td>
</tr>
<tr>
<td>Gaenslen, George Ralph</td>
<td>III</td>
<td>'03 San Antonio, Tex.</td>
<td></td>
</tr>
<tr>
<td>Galaher, Francis Brisbane</td>
<td>II</td>
<td>'02 892 Essex St., Lawrence, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gallup, Harry Wallace</td>
<td>V</td>
<td>'03 186 Laurel Hill Ave., New Rochelle, Conn.</td>
<td></td>
</tr>
<tr>
<td>Galusha, Don Loomis</td>
<td></td>
<td>'04 So. Royalton, Vt.</td>
<td></td>
</tr>
<tr>
<td>Gammons, James Madison</td>
<td>VI</td>
<td>'03 Long Plain, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gannett, Farley</td>
<td></td>
<td>'02 1881 3rd St., N. W., Wash., D. C.</td>
<td></td>
</tr>
<tr>
<td>Garcelon, George Holland</td>
<td>VI</td>
<td>'03 6 William St., W. Somerville, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gardner, Archibald</td>
<td></td>
<td>XIII '02 Babylon, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Gardner, Charles Francis</td>
<td></td>
<td>S. 31 Glenwood St., Brockton, Mass.</td>
<td></td>
</tr>
<tr>
<td>Garrett, Edmund Anthony, Φ. Γ. Δ.</td>
<td>II</td>
<td>'03 Winchester, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gates, Thayer Prescott, Σ. X.</td>
<td>VI</td>
<td>'03 400 E. Merrimack St., Lowell, Mass.</td>
<td></td>
</tr>
<tr>
<td>Geeson, Albert Barrot</td>
<td></td>
<td>'04 Butler Road, Quincy, Mass.</td>
<td></td>
</tr>
<tr>
<td>George, Harry Allan</td>
<td></td>
<td>S. 40 Chase St., Newton Centre, Mass.</td>
<td></td>
</tr>
<tr>
<td>Geromanos, Hercules Wallace</td>
<td></td>
<td>'02 1106 State St., Springfield, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gerry, William Franklin</td>
<td></td>
<td>S. Lynnfield Centre, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gifford, Ralph Percy</td>
<td></td>
<td>VI. '02 39 Hawthorne St., Lynn, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gilker, William Mansfield</td>
<td></td>
<td>VI. '03 163 Warren Ave., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gill, Walter Josiah, Jr.</td>
<td></td>
<td>'04 21 Montrose St., Roxbury, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gillett, William Lowry, A.B.</td>
<td></td>
<td>S. 1006 Up. 1st St., Evansville, Ind.</td>
<td></td>
</tr>
<tr>
<td>Gilmer, Thornton Merriwether</td>
<td></td>
<td>'04 945 So. 11th E. St., Salt Lake City, U.</td>
<td></td>
</tr>
<tr>
<td>Gilson, Henry Robbins</td>
<td></td>
<td>II. '01 Groton, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gilson, John Lawrence, Δ. Ψ.</td>
<td></td>
<td>S. 5 Court St., Rutland, Vt.</td>
<td></td>
</tr>
<tr>
<td>Gleason, Gilbert Howe</td>
<td></td>
<td>X. '03 12 Ruthven St., Roxbury, Mass.</td>
<td></td>
</tr>
<tr>
<td>Glenn, Charles Sewall</td>
<td></td>
<td>S. 1420 John St., Baltimore, Md.</td>
<td></td>
</tr>
<tr>
<td>Glover, Russell Henry</td>
<td></td>
<td>S. Harrington, Me.</td>
<td></td>
</tr>
<tr>
<td>Goddard, Herbert Willard</td>
<td></td>
<td>'04 30 Marlborough St., Lowell, Mass.</td>
<td></td>
</tr>
<tr>
<td>Godfrey, Otis Ingraham</td>
<td></td>
<td>S. Two Dot, Mon.</td>
<td></td>
</tr>
<tr>
<td>Goldenberg, Maurice</td>
<td></td>
<td>IV. '02 391 Meridian St., E. Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Goldthwait, Fred Warren</td>
<td></td>
<td>'04 115 Central St., Peabody, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gonzalez, Alberto Primitivo</td>
<td></td>
<td>III. '01 Monterey, N. Mex.</td>
<td></td>
</tr>
<tr>
<td>Goodrich, Robert Rhea, S.B.</td>
<td>II</td>
<td>'01 497 Columbus Ave., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Goodwin, Charles Carroll</td>
<td>II</td>
<td>'03 94 Chestnut St., Rochester, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Goodwin, Edwin Gerrish</td>
<td></td>
<td>III. '03 No. Berwick, Me.</td>
<td></td>
</tr>
<tr>
<td>Goodwin, William Francis</td>
<td></td>
<td>'04 5 Mason St., Biddeford, Me.</td>
<td></td>
</tr>
<tr>
<td>Gorfinkle, Emanuel</td>
<td></td>
<td>S. 164 Walnut St., Chelsea, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gould, Harold Howard</td>
<td></td>
<td>'04 14 Pinckney St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gould, Le Roy Boardman</td>
<td></td>
<td>VI. '03 17 No. Pleasant St., Taunton, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gover, Maurice Howell</td>
<td></td>
<td>'04 17 Homestead St., Roxbury, Mass.</td>
<td></td>
</tr>
<tr>
<td>Granger, Elliot</td>
<td></td>
<td>'04 18 Centre St., Roxbury, Mass.</td>
<td></td>
</tr>
<tr>
<td>Grant, Harry Lamar, Δ. K. E.</td>
<td></td>
<td>XIII '01 520 Greenwich St., Covington, Ky.</td>
<td></td>
</tr>
<tr>
<td>Grant, Kenneth Crothers</td>
<td></td>
<td>I. '02 Bay View Ave., Newport, R. I.</td>
<td></td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>--------</td>
<td>----------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>Grant, Leslie Roy</td>
<td>'04</td>
<td>S.</td>
<td>20 Pleasant Ave., Somerville, Mass.</td>
</tr>
<tr>
<td>Gray, Curtis Rockwell</td>
<td>S.</td>
<td>38</td>
<td>Dartmouth St., Boston, Mass.</td>
</tr>
<tr>
<td>Greeley, William Roger</td>
<td>IV.</td>
<td>'02</td>
<td>Lexington, Mass.</td>
</tr>
<tr>
<td>Green, Carlton Francis</td>
<td>III.</td>
<td>'03</td>
<td>7 Follen St., Spencer, Mass.</td>
</tr>
<tr>
<td>Green, Erik Hastings, A.B., A.M.</td>
<td>S.</td>
<td>14</td>
<td>John St., Providence, R. I.</td>
</tr>
<tr>
<td>Green, Frank Whitney</td>
<td>S.</td>
<td>Louisville, Ky.</td>
<td></td>
</tr>
<tr>
<td>Green, Henry Lincoln, ∆ Ψ.</td>
<td>S.</td>
<td>278</td>
<td>State St., Albany, N. Y.</td>
</tr>
<tr>
<td>Greene, Bertram, W.B., ∆ Ψ.</td>
<td>IX.</td>
<td>'02</td>
<td>50 Rue Bassano, Paris, France.</td>
</tr>
<tr>
<td>Greene, Chester Marson</td>
<td>'04</td>
<td>56</td>
<td>Belmont St., Malden, Mass.</td>
</tr>
<tr>
<td>Greene, George Melville</td>
<td>S.</td>
<td>Westminster, Conn.</td>
<td></td>
</tr>
<tr>
<td>Greeves, Walter Bruce, Σ X.</td>
<td>S.</td>
<td>Beaumont, Tex.</td>
<td></td>
</tr>
<tr>
<td>Grice, John Marriott</td>
<td>S.</td>
<td>3840</td>
<td>Lindell Bold St., St. Louis, Mo.</td>
</tr>
<tr>
<td>Griffin, Charles James</td>
<td>I.</td>
<td>'03</td>
<td>3 Mead St., Everett, Mass.</td>
</tr>
<tr>
<td>Groves, Harry Hunt</td>
<td>'04</td>
<td>Hudson, Mass.</td>
<td></td>
</tr>
<tr>
<td>Gundrum, August Charles</td>
<td>S.</td>
<td>1013</td>
<td>Bushwick Ave., Brooklyn, N.Y.</td>
</tr>
<tr>
<td>Gunn, Selskar</td>
<td>'04</td>
<td>&quot;St.Selskars&quot; Eaton Ave., Lon., Eng.</td>
<td></td>
</tr>
<tr>
<td>Gurza, Jaime</td>
<td>S.</td>
<td>Apartado 100, Durango, Mex.</td>
<td></td>
</tr>
<tr>
<td>Gustafson, Gustaf Edward</td>
<td>I.</td>
<td>'01</td>
<td>28 Jackson St., Campello, Mass.</td>
</tr>
<tr>
<td>Haanel, Benjamin Franklin, B.S.</td>
<td>S.</td>
<td>405</td>
<td>University Pl., Syracuse, N. Y.</td>
</tr>
<tr>
<td>Haar, Selby</td>
<td>'04</td>
<td>1614</td>
<td>Charlotte St., Kansas City, Mo.</td>
</tr>
<tr>
<td>Haddock, Isaac Thomas</td>
<td>S.</td>
<td>Tiverton, R. I.</td>
<td></td>
</tr>
<tr>
<td>Hadley, Walter Elbridge</td>
<td>'04</td>
<td>7</td>
<td>Greenough Ave., Cambridge, Mass.</td>
</tr>
<tr>
<td>Hale, Herbert M.</td>
<td>'04</td>
<td>Somerville, Mass.</td>
<td></td>
</tr>
<tr>
<td>Haley, Dennis Frederick</td>
<td>III.</td>
<td>'01</td>
<td>48 Blossom St., Lowell, Mass.</td>
</tr>
<tr>
<td>Haley, Humphrey Matthew</td>
<td>'04</td>
<td>4</td>
<td>Pratt St., Salem, Mass.</td>
</tr>
<tr>
<td>Hall, Arthur Parker</td>
<td>X.</td>
<td>'02</td>
<td>3 Cordis St., Charlestown, Mass.</td>
</tr>
<tr>
<td>Hall, Barton</td>
<td>'04</td>
<td>18</td>
<td>West 38th St., Kansas City, Mo.</td>
</tr>
<tr>
<td>Hall, George Anthony</td>
<td>IX.</td>
<td>'01</td>
<td>366 Com'wlth Ave., Boston, Mass.</td>
</tr>
<tr>
<td>Hall, George Duffield, A.B.</td>
<td>S.</td>
<td>St. Louis, Mo.</td>
<td></td>
</tr>
<tr>
<td>Hall, John, B.S.</td>
<td>'04</td>
<td>Stony Creek, Conn.</td>
<td></td>
</tr>
<tr>
<td>Hamblet, Abel Martin</td>
<td>S.</td>
<td>820</td>
<td>Princess St., Wilmington, N.C.</td>
</tr>
<tr>
<td>Hamilton, Albert</td>
<td>V.</td>
<td>'02</td>
<td>120 Federal St., Salem, Mass.</td>
</tr>
<tr>
<td>Hamilton, James Montgomery</td>
<td>II.</td>
<td>'02</td>
<td>205 Crafts St., Newtonville, Mass.</td>
</tr>
<tr>
<td>Hamilton, Robert Stavelly, X. Φ.</td>
<td>S.</td>
<td>19</td>
<td>Holman St., Fort Wayne, Ind.</td>
</tr>
<tr>
<td>Hamilton, Thomas Moore</td>
<td>S.</td>
<td>Helena, Mont.</td>
<td></td>
</tr>
<tr>
<td>Hammond, Clifford Robson, Σ X.</td>
<td>III.</td>
<td>'04</td>
<td>Helena, Mont.</td>
</tr>
<tr>
<td>Hammond, Lester Clark</td>
<td>VI.</td>
<td>'01</td>
<td>294 Penn. St., Buffalo, N. Y.</td>
</tr>
<tr>
<td>Hansen, August Ernst</td>
<td>S.</td>
<td>Kingston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Hansen, Paul, O. Ζ.</td>
<td>XI.</td>
<td>'02</td>
<td>Viersen, Germany.</td>
</tr>
<tr>
<td>Hansen, Raymond Edward</td>
<td>XI.</td>
<td>'02</td>
<td>704 7th St., N. W., Washingt'n, D.C.</td>
</tr>
<tr>
<td>Hardenbergh, Clarence Morgan</td>
<td>S.</td>
<td>52</td>
<td>Bancroft Ave., Reading, Mass.</td>
</tr>
<tr>
<td>Haraden, Joseph Allen</td>
<td>'03</td>
<td>625</td>
<td>9th St., So. Minneapolis, Minn.</td>
</tr>
<tr>
<td>Harding, Reynold Munroe</td>
<td>'04</td>
<td>20</td>
<td>Essex St., Charlestown, Mass.</td>
</tr>
<tr>
<td>Harkness, Arthur Fuller</td>
<td>'04</td>
<td>42</td>
<td>Youle St., Melrose, Mass.</td>
</tr>
<tr>
<td>Harlow, Justin Edwards</td>
<td>V.</td>
<td>'02</td>
<td>Walpole, Mass.</td>
</tr>
<tr>
<td>Harnett, James Harold</td>
<td>XIII.</td>
<td>'03</td>
<td>Edgewood Park, Pa.</td>
</tr>
<tr>
<td></td>
<td>I.</td>
<td>'01</td>
<td>Sackville, N. B.</td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>--------</td>
<td>--------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Harrigan, William Augustine</td>
<td></td>
<td>S.</td>
<td>236 Lexington St., E. Boston, Mass.</td>
</tr>
<tr>
<td>Harris, Charles Hardy</td>
<td>VI</td>
<td>'01</td>
<td>17 Sawin St., Natick, Mass.</td>
</tr>
<tr>
<td>Harris, Frank Park, A.B.</td>
<td></td>
<td></td>
<td>S. Amherst, Mass.</td>
</tr>
<tr>
<td>Harris, Galen Moses, Δ. K. E.</td>
<td>II</td>
<td>'03</td>
<td>53 Dering St., Portland, Me.</td>
</tr>
<tr>
<td>Harris, Henry George</td>
<td>XIII</td>
<td>'03</td>
<td>36 Worcester Sq., Boston, Mass.</td>
</tr>
<tr>
<td>Harris, Wilson Park</td>
<td></td>
<td></td>
<td>125 St. Mark's Ave., Brooklyn, N.Y.</td>
</tr>
<tr>
<td>Hartshorne, Richard Gardner</td>
<td></td>
<td>'04</td>
<td>94 W.Chestnut St., Wakefield, Mass.</td>
</tr>
<tr>
<td>Harwood, Leon Martin</td>
<td></td>
<td></td>
<td>188 Walnut St., Springfield, Mass.</td>
</tr>
<tr>
<td>Haskell, Albert Adams</td>
<td>V</td>
<td>'02</td>
<td>Essex, Mass.</td>
</tr>
<tr>
<td>Hatch, Mellen Chamberlain Mason</td>
<td></td>
<td></td>
<td>105 Wash. Ave., Chelsea, Mass.</td>
</tr>
<tr>
<td>Havens, Ralph Edgar</td>
<td></td>
<td>'04</td>
<td>Newton Highlands, Mass.</td>
</tr>
<tr>
<td>Hayden, Ralph</td>
<td></td>
<td>'04</td>
<td>14 Bowdoin St., Cambridge, Mass.</td>
</tr>
<tr>
<td>Hayden, Arthur Gunderson</td>
<td>I</td>
<td>'01</td>
<td>559 Potomac Ave., Buffalo, N. Y.</td>
</tr>
<tr>
<td>Hayden, Frank Demetrius</td>
<td></td>
<td></td>
<td>159 Shirley St., Winthrop, Mass.</td>
</tr>
<tr>
<td>Haynes, Charles Rogerson</td>
<td></td>
<td>'04</td>
<td>74 Beacon St., Hyde Park, Mass.</td>
</tr>
<tr>
<td>Hayward, Carle Reed</td>
<td></td>
<td></td>
<td>3 Goffe St., Quincy, Mass.</td>
</tr>
<tr>
<td>Hazeline, Reginald</td>
<td></td>
<td>'04</td>
<td>Belfast, Me.</td>
</tr>
<tr>
<td>Hazlewood, Sumner</td>
<td>III</td>
<td>'03</td>
<td>161 Allen Ave., Lynn, Mass.</td>
</tr>
<tr>
<td>Healey, Alexander, Ξ. A. E.</td>
<td></td>
<td></td>
<td>2529 Jefferson Ave., Ogden, Utah.</td>
</tr>
<tr>
<td>Healey, Harry Raymond</td>
<td>X</td>
<td>'01</td>
<td>94 Pembroke St., Boston, Mass.</td>
</tr>
<tr>
<td>Heckman, John Francis</td>
<td></td>
<td>'03</td>
<td>16 Prospect St., N. Attleboro, Mass.</td>
</tr>
<tr>
<td>Helmick, William Fred</td>
<td>VI</td>
<td>'03</td>
<td>1122 York St., Cincinnati, O.</td>
</tr>
<tr>
<td>Henderson, Theodore Phinney, Δ. Ψ.</td>
<td></td>
<td>'04</td>
<td>West Point, N. Y.</td>
</tr>
<tr>
<td>Henne, Ernst</td>
<td>IV</td>
<td>'02</td>
<td>589 La Salle Ave., Chicago, Ill.</td>
</tr>
<tr>
<td>Henrich, Louis Richard</td>
<td></td>
<td>'01</td>
<td>60 Northampton St., Buffalo, N. Y.</td>
</tr>
<tr>
<td>Herman, Louis Alfred</td>
<td></td>
<td>'04</td>
<td>7 Eaton St., Boston, Mass.</td>
</tr>
<tr>
<td>Hervey, Elmer Merrill</td>
<td>VI</td>
<td>'02</td>
<td>8 Humphreys Sq., Dorchester, Mass.</td>
</tr>
<tr>
<td>Higgins, Albert Willis</td>
<td>X</td>
<td>'01</td>
<td>38 Woodbine St., Auburndale, Mass.</td>
</tr>
<tr>
<td>Hildreth, Horace Edwin, A.B.</td>
<td>I</td>
<td>'01</td>
<td>6 Linnaean St., Cambridge, Mass.</td>
</tr>
<tr>
<td>Hilken, Paul Gerhard Ludiger</td>
<td></td>
<td>'04</td>
<td>133 Lanvale St., Baltimore, Md.</td>
</tr>
<tr>
<td>Hill, Hiram Augustus</td>
<td></td>
<td></td>
<td>169 Laurel St., Manchester, N. H.</td>
</tr>
<tr>
<td>Hill, Frank Albert</td>
<td></td>
<td>'04</td>
<td>8 Florence St., Andover, Mass.</td>
</tr>
<tr>
<td>Hill, Guy</td>
<td></td>
<td>'04</td>
<td>41 High St., Everett, Mass.</td>
</tr>
<tr>
<td>Hill, Percy Granville</td>
<td></td>
<td>'04</td>
<td>Wallingford, Conn.</td>
</tr>
<tr>
<td>Hills, Harold Fellows</td>
<td></td>
<td></td>
<td>256 Andover St., Lowell, Mass.</td>
</tr>
<tr>
<td>Hirt, Jules Hector</td>
<td>III</td>
<td>'01</td>
<td>Brookline, Mass.</td>
</tr>
<tr>
<td>Hilliard, William Moody</td>
<td></td>
<td>'04</td>
<td>Haverhill, Mass.</td>
</tr>
<tr>
<td>Hodgdon, Harry Augustine</td>
<td>II</td>
<td>'01</td>
<td>5 Sumner Ave., Medford, Mass.</td>
</tr>
<tr>
<td>Hodge, William Edward</td>
<td></td>
<td>'04</td>
<td>112 Washington St., Falls, Mass.</td>
</tr>
<tr>
<td>Hogle, Milton Ward</td>
<td>II</td>
<td>'01</td>
<td>128 Linden St, Rochester, N. Y.</td>
</tr>
<tr>
<td>Holbrooke, Elmer A.</td>
<td></td>
<td>'04</td>
<td>Fitchburg, Mass.</td>
</tr>
<tr>
<td>Holcombe, Amasa Maynard</td>
<td></td>
<td>'04</td>
<td>13 Wildwood St., Winchester, Mass.</td>
</tr>
<tr>
<td>Hollagle, Herbert</td>
<td>IV</td>
<td>'01</td>
<td>2164 Conner Ave., Dubuque, Iowa.</td>
</tr>
<tr>
<td>Holford, William Gordon</td>
<td>III</td>
<td>'02</td>
<td>Hazardville, Conn.</td>
</tr>
<tr>
<td>Hollis, Charles Bertram</td>
<td></td>
<td></td>
<td>6 Concord Place, Natick, Mass.</td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>Holmes, Addison Francis</td>
<td>'04</td>
<td>2075 Washington St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Holmes, Valdemar Frank, Δ T.</td>
<td>'01</td>
<td>Strandvæy 36, Copenhagen, Den.</td>
<td></td>
</tr>
<tr>
<td>Homans, George Morris</td>
<td>'06</td>
<td>26 Berwick Park, Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Homer, Charles Lowell, X. Φ.</td>
<td>'04</td>
<td>Galveston, Texas.</td>
<td></td>
</tr>
<tr>
<td>Hood, Albert Hudson</td>
<td>'03</td>
<td>506 W. Genesee St., Syracuse, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Hood, Raymond Mathewson</td>
<td>'02</td>
<td>Wellesley Hills, Mass.</td>
<td></td>
</tr>
<tr>
<td>Hooker, Henry Keene</td>
<td>'01</td>
<td>107 Cottage St., Pawtucket, R. I.</td>
<td></td>
</tr>
<tr>
<td>Horne, Louis Winslow</td>
<td>'02</td>
<td>150 School St., Somerville, Mass.</td>
<td></td>
</tr>
<tr>
<td>Horstmann, William Henry</td>
<td>'02</td>
<td>147 Grampian Way, Dor., Mass.</td>
<td></td>
</tr>
<tr>
<td>Horton, Frederick Waters</td>
<td>'01</td>
<td>Brockport, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Howard, John Wardwell</td>
<td>'03</td>
<td>Essex St., Brookline, Mass.</td>
<td></td>
</tr>
<tr>
<td>Howard, Lewis Thomas</td>
<td>'02</td>
<td>Andover, Mass.</td>
<td></td>
</tr>
<tr>
<td>Howe, James Carleton, A.B.</td>
<td>'04</td>
<td>104 Chandler St., S. Varm'th, Mass.</td>
<td></td>
</tr>
<tr>
<td>Howell, William Allen</td>
<td></td>
<td>Keene, N. H.</td>
<td></td>
</tr>
<tr>
<td>Howes, Cyrus Pierce</td>
<td>'03</td>
<td>229 Longwood Ave., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Howes, Ralph Holt</td>
<td>'04</td>
<td>350 Green St., Syracuse, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Hoxie, Edward Ely</td>
<td>'02</td>
<td>124 Townsend St., Roxbury, Mass.</td>
<td></td>
</tr>
<tr>
<td>Hoy, Charles</td>
<td>'02</td>
<td>3 Ellery St., Cambridge, Mass.</td>
<td></td>
</tr>
<tr>
<td>Hubbard, Robert Arnold</td>
<td>'03</td>
<td>Manchester, Vt.</td>
<td></td>
</tr>
<tr>
<td>Hudson, Henry Norman</td>
<td>'05</td>
<td>50 Ashford St., Allston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Huff, Montgomery Gerraus</td>
<td>'02</td>
<td>55 Carleton St, Newton, Mass.</td>
<td></td>
</tr>
<tr>
<td>Hull, Floyd Byron</td>
<td>'04</td>
<td>809 N. Crescent Ave., Cincinnati, O.</td>
<td></td>
</tr>
<tr>
<td>Humphrey, Edwin Roland, X. Φ.</td>
<td>'04</td>
<td>Poughkeepsie, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Hunt, Howard Nelson</td>
<td></td>
<td>8 Harris St., Newburyport, Mass.</td>
<td></td>
</tr>
<tr>
<td>Hunter, Charles Frederick</td>
<td>'04</td>
<td>Station M, Chicago, Ill.</td>
<td></td>
</tr>
<tr>
<td>Hunter, Frederick Huston</td>
<td>'03</td>
<td>Hanover, N. H.</td>
<td></td>
</tr>
<tr>
<td>Hunter, Leroy Littlefield</td>
<td>'01</td>
<td>No. Evans, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Huntington, Constant Davis, A.B.</td>
<td>'01</td>
<td>33 Harris St., Waltham, Mass.</td>
<td></td>
</tr>
<tr>
<td>Hutchinson, John Albert</td>
<td>'03</td>
<td>679 Broadway, Kingston, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Hyde, Austin Taber, B.S.C.</td>
<td>'04</td>
<td>90 Knox St., Lawrence, Mass.</td>
<td></td>
</tr>
<tr>
<td>Hyde, George Taylor, Δ T.</td>
<td>'02</td>
<td>15 E. 47th St., New York, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Ingalls, Frederick DuBois</td>
<td>'01</td>
<td>849 Oak Av. (W. H.), Cincinnati, O.</td>
<td></td>
</tr>
<tr>
<td>Ingram, Ralph Osborne</td>
<td>'02</td>
<td>15 Centre St., Brookline, Mass.</td>
<td></td>
</tr>
<tr>
<td>Ireland, James Duane, Ph.B.</td>
<td>'04</td>
<td>204 Lansome St., San Francisco, Cal.</td>
<td></td>
</tr>
<tr>
<td>Isham, Alonzo Keyt, Σ A. E.</td>
<td>'01</td>
<td>Hastings, Neb.</td>
<td></td>
</tr>
<tr>
<td>Jackson, Robert Fuller</td>
<td>'04</td>
<td>130 Park St., Portland, Me.</td>
<td></td>
</tr>
<tr>
<td>Jacobs, Alfred Henry</td>
<td>'04</td>
<td>35 Glenarm St., Dorchester, Mass.</td>
<td></td>
</tr>
<tr>
<td>Jacobson, Henry Forsberg</td>
<td>'01</td>
<td>Toledo, O.</td>
<td></td>
</tr>
<tr>
<td>Jenkins, Austin Dickenson, A.B.</td>
<td>'03</td>
<td>224 Blossom St., Fitchburg, Mass.</td>
<td></td>
</tr>
<tr>
<td>Jenkins, Ernest Foster</td>
<td>'01</td>
<td>120 Sycamore St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Jewett, Arthur Crawford</td>
<td>'03</td>
<td>4167 Broadway, Lawrence, Mass.</td>
<td></td>
</tr>
<tr>
<td>Jewett, Kenneth DuBois</td>
<td>'01</td>
<td>1871 Forest Ave., Portland, Me.</td>
<td></td>
</tr>
<tr>
<td>Johnson, Carl Francis</td>
<td>'03</td>
<td>S. Highland Park, Ill.</td>
<td></td>
</tr>
<tr>
<td>Johnson, Frank</td>
<td>'03</td>
<td>Columbus, Ga.</td>
<td></td>
</tr>
<tr>
<td>Jones, John Larrabee</td>
<td>'03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jones, Joseph Russell</td>
<td>'03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jordan, Ralph Curtis, Σ X.</td>
<td>'03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Jordan, Robert Rishworth, Δ. K. E.</td>
<td></td>
<td>S.</td>
<td>290 Danforth St., Portland, Me.</td>
</tr>
<tr>
<td>Joyce, Clarence Mason</td>
<td></td>
<td>V.</td>
<td>19 Park St., Medford, Mass.</td>
</tr>
<tr>
<td>Judson, Howard Campbell</td>
<td></td>
<td>S.</td>
<td>163 Elm St., Holyoke, Mass.</td>
</tr>
<tr>
<td>Kaiser, George Karl</td>
<td>'04</td>
<td>'04</td>
<td>171 Bank St., New London, Conn.</td>
</tr>
<tr>
<td>Kalmus, Herbert Thomas</td>
<td>'04</td>
<td>'04</td>
<td>5 Howe St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Kaufman, Louis Rogers</td>
<td>'03</td>
<td>IV.</td>
<td>1609 4th Ave., Louisville, Ky.</td>
</tr>
<tr>
<td>Keenan, Joseph Augustine</td>
<td>'04</td>
<td>'04</td>
<td>Box 1335, Jewett City, Conn.</td>
</tr>
<tr>
<td>Kehew, Francis Donaldson</td>
<td>'04</td>
<td>'04</td>
<td>80 W. Fifth St., So. Boston, Mass.</td>
</tr>
<tr>
<td>Keith, Edwin</td>
<td>'04</td>
<td>'04</td>
<td>104 Inman St., Cambridge, Mass.</td>
</tr>
<tr>
<td>Keller, Dennie Kelley</td>
<td>'04</td>
<td>'04</td>
<td>Bridgewater, Mass.</td>
</tr>
<tr>
<td>Kelley, Will Ghost</td>
<td>'01</td>
<td>'01</td>
<td>Canton, Mass.</td>
</tr>
<tr>
<td>Kellogg, Charles Wetmore, Jr., Δ. Ψ.</td>
<td>'02</td>
<td>VI.</td>
<td>914 North 6th St., Burlington, Ia.</td>
</tr>
<tr>
<td>Kendall, Harry Stillman</td>
<td>'04</td>
<td>'04</td>
<td>19 W. Granite St., Butte, Mont.</td>
</tr>
<tr>
<td>Kennedy, Herbert Harley</td>
<td>'04</td>
<td>'04</td>
<td>361 Chestnut St., Gardner, Mass.</td>
</tr>
<tr>
<td>Kerr, Norman Frederick, Σ. X.</td>
<td>'04</td>
<td>'04</td>
<td>1915 Broad St., Nashville, Tenn.</td>
</tr>
<tr>
<td>Kershaw, George Elliott</td>
<td>'04</td>
<td>'04</td>
<td>% Lt. Col. McLaren, H'milt'n, Can.</td>
</tr>
<tr>
<td>Kimball, Alfred Whitefield</td>
<td>'04</td>
<td>'04</td>
<td>25 Dell St., Somerville, Mass.</td>
</tr>
<tr>
<td>Kimball, Edwin Elliot</td>
<td>'03</td>
<td>V.</td>
<td>51 Fain St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Kimball, Lemuel Cush'g, Jr., A.B., Σ. A. E.</td>
<td>'02</td>
<td>VI.</td>
<td>124-6 East St., Salt Lake City, U.</td>
</tr>
<tr>
<td>King, Carl</td>
<td>'04</td>
<td>'04</td>
<td>271 Beacon St., Boston, Mass.</td>
</tr>
<tr>
<td>King, Everett Howard</td>
<td>'04</td>
<td>'04</td>
<td>266 Andover St., Lawrence, Mass.</td>
</tr>
<tr>
<td>King, Robert Joshua</td>
<td>'04</td>
<td>'04</td>
<td>S. Tewksbury, Mass.</td>
</tr>
<tr>
<td>Klienes, Archibald Lee</td>
<td></td>
<td>III.</td>
<td>2315 Chapline St., Wheeling, Va.</td>
</tr>
<tr>
<td>Knight, Eliot Walker, Φ. Γ. Δ.</td>
<td>'02</td>
<td>III.</td>
<td>55 Ashford St., Allston, Mass.</td>
</tr>
<tr>
<td>Knights, Charles Fox</td>
<td>'02</td>
<td>I.</td>
<td>567 Lebanon St., Melrose, Mass.</td>
</tr>
<tr>
<td>Knowlton, Cutler Dean</td>
<td>'04</td>
<td>'04</td>
<td>Rockport, Mass.</td>
</tr>
<tr>
<td>Knox, King Harding, Σ. A. E.</td>
<td>'01</td>
<td>VI.</td>
<td>320 Church St., Baton Rouge, La.</td>
</tr>
<tr>
<td>Koch, Harry George, Χ. Φ.</td>
<td>'01</td>
<td>S.</td>
<td>199 25th St., Milwaukee, Wis.</td>
</tr>
<tr>
<td>Kohr, Donald Alexis, Ph.B.</td>
<td>'07</td>
<td>S.</td>
<td>97 Florence St., Roslindale, Mass.</td>
</tr>
<tr>
<td>Kramer, Henry</td>
<td>'03</td>
<td>'03</td>
<td>1845 Madison Road, Cincinnati, O.</td>
</tr>
<tr>
<td>Kruse, Robert Louis</td>
<td>'04</td>
<td>'04</td>
<td>Drifton, Pa.</td>
</tr>
<tr>
<td>Küdlitch, Alfred Heinrich</td>
<td>'04</td>
<td>'04</td>
<td>Glendale, O.</td>
</tr>
<tr>
<td>Lackman, Herman William</td>
<td>'04</td>
<td>'04</td>
<td>14 Rue Pierre Ch'tr'n, Paris, France</td>
</tr>
<tr>
<td>Lage, Antonio Martius, B.S.</td>
<td>'04</td>
<td>'04</td>
<td>14 Rue Pierre Ch'tr'n, Paris, France</td>
</tr>
<tr>
<td>Lage, Henry</td>
<td>'04</td>
<td>'04</td>
<td>Wellsboro, Pa.</td>
</tr>
<tr>
<td>Lage, Renaud, B.S.</td>
<td>'03</td>
<td>'03</td>
<td>S. Portland, Me.</td>
</tr>
<tr>
<td>Landrus, George Washington, Δ. T.</td>
<td>'03</td>
<td>'03</td>
<td>S. Portland, Me.</td>
</tr>
<tr>
<td>Lane, Frank George, Σ. A. E.</td>
<td>'03</td>
<td>'03</td>
<td>8 Green St., Lawrence, Mass.</td>
</tr>
<tr>
<td>Lane, William Thomas</td>
<td>'04</td>
<td>'04</td>
<td>24 Irving St., Cambridge, Mass.</td>
</tr>
<tr>
<td>Lang, Alfred Ernest, Φ. Γ. Δ.</td>
<td>'04</td>
<td>'04</td>
<td>29 King St., Springfield, Mass.</td>
</tr>
<tr>
<td>Lang, Currier</td>
<td>'02</td>
<td>VI.</td>
<td>Bennington, Vt.</td>
</tr>
<tr>
<td>Lange, Theodore Ferdinand</td>
<td>'03</td>
<td>II.</td>
<td>18 Pearl St., Willimantic, Conn.</td>
</tr>
</tbody>
</table>

331
<table>
<thead>
<tr>
<th>Name and Fraternity</th>
<th>Course</th>
<th>Class</th>
<th>Home Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latshaw, Wm. Herbert Morse</td>
<td>V.</td>
<td>'02</td>
<td>411 W. 13th St., Pueblo, Colo.</td>
</tr>
<tr>
<td>Lawrence, Ellis Fuller</td>
<td>IV.</td>
<td>'01</td>
<td>16 Martin St., Cambridge, Mass.</td>
</tr>
<tr>
<td>Laws, James Bradford, Δ. Ψ.</td>
<td>S.</td>
<td>3003 Reading Road, Cincinnati, O.</td>
<td></td>
</tr>
<tr>
<td>Lawson, Charles Shelley, M.S.</td>
<td>S.</td>
<td>Montgomery, Ala.</td>
<td></td>
</tr>
<tr>
<td>Leary, Charles Arthur</td>
<td>S.</td>
<td>79 Charles St., Waltham, Mass.</td>
<td></td>
</tr>
<tr>
<td>Leary, Denis Gerald</td>
<td>S.</td>
<td>259 Central St., Springfield, Mass.</td>
<td></td>
</tr>
<tr>
<td>Leavitt, Augustus Scamman</td>
<td>I.</td>
<td>'03</td>
<td>164 Main St., Haverhill, Mass.</td>
</tr>
<tr>
<td>Leavitt, Phillip Amos</td>
<td>'04</td>
<td>105 Mt. Vernon St., Saco, Me.</td>
<td></td>
</tr>
<tr>
<td>Lee, John Josiah</td>
<td>'04</td>
<td></td>
<td>Bucksport, Me.</td>
</tr>
<tr>
<td>Lee, Lawrence Hargreave</td>
<td>VI.</td>
<td>'03</td>
<td>369 Hudson St., Buffalo, N. Y.</td>
</tr>
<tr>
<td>Levin, Harry</td>
<td>'04</td>
<td>6 Morton St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Lewis, William Remsen</td>
<td>S.</td>
<td>Newport, R. I.</td>
<td></td>
</tr>
<tr>
<td>Lenth, George Caspar Doering</td>
<td>I.</td>
<td>'03</td>
<td>1215 West Grace St., Chicago, Ill.</td>
</tr>
<tr>
<td>Libbey, George Eastman</td>
<td>II.</td>
<td>'03</td>
<td>147 Wyoming Ave., Melrose, Mass.</td>
</tr>
<tr>
<td>Lincoln, Charles Thayer</td>
<td>V.</td>
<td>'01</td>
<td>21 St. James Ave., Boston, Mass.</td>
</tr>
<tr>
<td>Lind, Samuel Colville, A.B.</td>
<td>S.</td>
<td>McMinnville, Tenn.</td>
<td></td>
</tr>
<tr>
<td>Lindsley, Albert J., Φ. T. Δ.</td>
<td>III.</td>
<td>'02</td>
<td>1423 E. 8th St., Kansas City, Mo.</td>
</tr>
<tr>
<td>Litchman, Harold Bartlett</td>
<td>S.</td>
<td>Brookline, Mass.</td>
<td></td>
</tr>
<tr>
<td>Little, James Lowell, Jr., A.B.</td>
<td>S.</td>
<td>60 Maple Ave., Troy, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Littleton, Stephen Berton</td>
<td>III.</td>
<td>'03</td>
<td>34 Alverton St., J'm'ica Plain, Mass.</td>
</tr>
<tr>
<td>Livermore, Robert, A.B.</td>
<td>'04</td>
<td>5 Brookfield, Mass.</td>
<td></td>
</tr>
<tr>
<td>Livermore, Robert Gurdon</td>
<td>II.</td>
<td>'02</td>
<td>44 East 50th St., Chicago, Ill.</td>
</tr>
<tr>
<td>Locke, Herbert Arey Garfield</td>
<td>II.</td>
<td>'01</td>
<td>21 Cranston St., J'm'ica Plain, Mass.</td>
</tr>
<tr>
<td>Lockett, Kenneth</td>
<td>I.</td>
<td>'02</td>
<td>1805 Jefferson St., Kansas City, Mo,</td>
</tr>
<tr>
<td>Lohbiller, Harry John</td>
<td>I.</td>
<td>'01</td>
<td>1805 Jefferson St., Kansas City, Mo,</td>
</tr>
<tr>
<td>Lombard, Albert Eaton, Δ. K. E.</td>
<td>S.</td>
<td>105 Mt. Vernon St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Loring, Ralph Stoddley</td>
<td>III.</td>
<td>'03</td>
<td>16 Thornley St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Loughlin, Gerald Francis</td>
<td>'04</td>
<td>11 Farnham St., Lawrence, Mass.</td>
<td></td>
</tr>
<tr>
<td>Lounsbury, William C.</td>
<td>S.</td>
<td>3 Angle St., Gloucester, Mass.</td>
<td></td>
</tr>
<tr>
<td>Lovett, Joseph Lamson</td>
<td>III.</td>
<td>'03</td>
<td>234 West Elm St., Brockton, Mass.</td>
</tr>
<tr>
<td>Low, David, Φ. Δ.</td>
<td>S.</td>
<td>Fitchburg, Mass.</td>
<td></td>
</tr>
<tr>
<td>Low, Harry Raymond</td>
<td>V.</td>
<td>'01</td>
<td>Milwaukee, Wis.</td>
</tr>
<tr>
<td>Lowe, Russell Bryant, Δ. Ψ.</td>
<td>S.</td>
<td>2 Waters Ave., W. Everett, Mass.</td>
<td></td>
</tr>
<tr>
<td>Lowry, Harold Keyes</td>
<td>V.</td>
<td>'01</td>
<td>1443 Rhode Isl'd Av., Wash., D. C.</td>
</tr>
<tr>
<td>Lunan, Thomas Mason</td>
<td>'04</td>
<td>10 Pinckney St., Boston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Lund, Harry Gardner</td>
<td>II.</td>
<td>'03</td>
<td>320 High St., Central Falls, R. I.</td>
</tr>
<tr>
<td>Luquer, Lynch, A.B.</td>
<td>V.</td>
<td>'03</td>
<td>116 Broadway, Norwich, Conn.</td>
</tr>
<tr>
<td>Lynch, William Duncan</td>
<td>VI.</td>
<td>'03</td>
<td>So. Lincoln, Me.</td>
</tr>
<tr>
<td>Lyon, James Lawrence</td>
<td>IV.</td>
<td>'02</td>
<td>3 Mt. Auburn Pl., Cambridge, Mass.</td>
</tr>
<tr>
<td>Macbrey, Frederick Dill</td>
<td>S.</td>
<td>Dorchester, Mass.</td>
<td></td>
</tr>
<tr>
<td>MacGregor, Roderick James</td>
<td>V.</td>
<td>'01</td>
<td>Roxbury, Mass.</td>
</tr>
<tr>
<td>MacNaughton, Ernest Boyd</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mace, Charles Austin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Macintire, Benjamin Gould</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------</td>
<td>-------</td>
<td>--------------</td>
</tr>
<tr>
<td>Macintire, Horace James</td>
<td>'04</td>
<td>122 Mt. Pleasant St., Roxbury, Mass.</td>
<td>S. P arras, Mex.</td>
</tr>
<tr>
<td>Madero, Alberto</td>
<td>'04</td>
<td>122 Mt. Pleasant St., Roxbury, Mass.</td>
<td>S. P arras, Mex.</td>
</tr>
<tr>
<td>Madero, Emilio</td>
<td>III.</td>
<td>'01</td>
<td>P arras, Mex.</td>
</tr>
<tr>
<td>Madero, Salvador S.</td>
<td>II.</td>
<td>'03</td>
<td>127 Ch'tn't Ave., Jam'ca Plain, Mass.</td>
</tr>
<tr>
<td>Magnitzky, Albert Louis</td>
<td>II.</td>
<td>'04</td>
<td>12 Howard St., Lynn, Mass.</td>
</tr>
<tr>
<td>Magrane, Patrick Henry</td>
<td>III.</td>
<td>'03</td>
<td>14 Newbury St., Boston, Mass.</td>
</tr>
<tr>
<td>Mahar, James Joseph</td>
<td>'04</td>
<td>23 Lindsay St., Dorchester, Mass.</td>
<td>200 Trenton St., E. Boston, Mass.</td>
</tr>
<tr>
<td>Mailey, Roy Davis</td>
<td>III.</td>
<td>'03</td>
<td>200 Trenton St., E. Boston, Mass.</td>
</tr>
<tr>
<td>Manahan, Robert Fulton</td>
<td>'03</td>
<td>'03</td>
<td>Menlo Park, Cal.</td>
</tr>
<tr>
<td>Manning, Chauncey Percival</td>
<td>V.</td>
<td>'02</td>
<td>19 Bainbridge St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Manson, Arthur James</td>
<td>II.</td>
<td>'03</td>
<td>145 Spring St., Springfield, Mass.</td>
</tr>
<tr>
<td>Manson, Gyula Bennett</td>
<td>S.</td>
<td>1503 E. North Ave., Baltimore, Md.</td>
<td>60 Michigan Ave., Chicago, Ill.</td>
</tr>
<tr>
<td>Marcus, Henry Charles</td>
<td>III.</td>
<td>'02</td>
<td>88 Perry St., Brookline, Mass.</td>
</tr>
<tr>
<td>Mardick, John Rice</td>
<td>X.</td>
<td>'03</td>
<td>Wakefield, Mass.</td>
</tr>
<tr>
<td>Marsh, George Everett, Jr.</td>
<td>XI.</td>
<td>'02</td>
<td>W. Brattleboro, Vt.</td>
</tr>
<tr>
<td>Marsh, Robert Penniman, Δ. K. E.</td>
<td>IV.</td>
<td>'03</td>
<td>S. Botolph St., Boston, Mass.</td>
</tr>
<tr>
<td>Marson, John Rufus</td>
<td>S.</td>
<td>128 Main St., Westerly, R. I.</td>
<td>28 Alveston St., J'm'ca Plain, Mass.</td>
</tr>
<tr>
<td>Martenet, Simon Jonas, Jr.</td>
<td>II.</td>
<td>'02</td>
<td>3727 Locust St., Philadelphia, Pa.</td>
</tr>
<tr>
<td>Martin, Charles Everett</td>
<td>X.</td>
<td>'02</td>
<td>1087 N. Broad St., Galesburg, Ill.</td>
</tr>
<tr>
<td>Martin, Walter Irving</td>
<td>I.</td>
<td>'03</td>
<td>21 Edison St., New Dorchester, Mass.</td>
</tr>
<tr>
<td>Marvin, John Reginold</td>
<td>IV.</td>
<td>'04</td>
<td>Alpine Place, Cincinnati, O.</td>
</tr>
<tr>
<td>Mason, Eugene Waterman, Jr, B.P.</td>
<td>I.</td>
<td>'01</td>
<td>23 Talcombe St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Mason, Marquis Edgar</td>
<td>II.</td>
<td>'03</td>
<td>32 Second St., Chelsea, Mass.</td>
</tr>
<tr>
<td>Mason, Stephen Nickerson</td>
<td>III.</td>
<td>'02</td>
<td>204 Arlington St., Youngstown, O.</td>
</tr>
<tr>
<td>Mather, George Everett</td>
<td>I.</td>
<td>'01</td>
<td>29 Stanley St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>McQuaid, John Delaney</td>
<td></td>
<td>'04</td>
<td>134 Dwight St., Holyoke, Mass.</td>
</tr>
<tr>
<td>Mears, Joseph Archibald, Jr.</td>
<td></td>
<td>VI. '03</td>
<td>234 S. Main Ave., Scranton, Pa.</td>
</tr>
<tr>
<td>Mendell, Harold Hammett</td>
<td></td>
<td>S.</td>
<td>127 Franklin St., Allston, Mass.</td>
</tr>
<tr>
<td>Mendenhall, Byard William</td>
<td></td>
<td>VI. '02</td>
<td>Springfield, Utah.</td>
</tr>
<tr>
<td>Merrill, Ambrose Moody</td>
<td></td>
<td>'04</td>
<td>9½ Prospect St., Newb'yp't, Mass.</td>
</tr>
<tr>
<td>Merrill, Arthur Potter</td>
<td></td>
<td>S.</td>
<td>102 Sewall St., Peabody, Mass.</td>
</tr>
<tr>
<td>Merrill, Leslie Eaton</td>
<td></td>
<td>X. '03</td>
<td>38 Main St., Peabody, Mass.</td>
</tr>
<tr>
<td>Merriman, Fred Knights</td>
<td></td>
<td>II. '01</td>
<td>48 Highland Ave., Haverhill, Mass.</td>
</tr>
<tr>
<td>Merryweather, Hubert, Δ. T.</td>
<td></td>
<td>'04</td>
<td>134 Walnut St., Brockton, Mass.</td>
</tr>
<tr>
<td>Metcalfe, James Garrison, X. F.</td>
<td></td>
<td>'04</td>
<td>639 Forest Ave., Cincinnati, O.</td>
</tr>
<tr>
<td>Miles, Harold Fairman</td>
<td></td>
<td>'04</td>
<td>840 Pearl St., Denver, Col.</td>
</tr>
<tr>
<td>Millar, Leslie Walker, Σ. A. E.</td>
<td></td>
<td>S. Hubbardston, Mass.</td>
<td></td>
</tr>
<tr>
<td>Millard, Emmor Hamilton</td>
<td></td>
<td>XIII. '02</td>
<td>116 W. Concord St., Boston, Mass.</td>
</tr>
<tr>
<td>Miller, Andrew Otterson, Δ. K. E.</td>
<td></td>
<td>S. 16 Franklin St., Watertown, Mass</td>
<td></td>
</tr>
<tr>
<td>Miller, Benjamin</td>
<td></td>
<td>'04</td>
<td>97 Sixth Ave., Brooklyn, N. Y.</td>
</tr>
<tr>
<td>Miller, Blaine Heston, Δ. K. E.</td>
<td></td>
<td>VI. '01</td>
<td>7 East 8th St., Cincinnati, O.</td>
</tr>
<tr>
<td>Miller, Lester Freeman, Σ. A. E.</td>
<td></td>
<td>I. '03</td>
<td>1429 N. Pa. St., Indianapolis, Ind.</td>
</tr>
<tr>
<td>Miller, Louis Arthur</td>
<td></td>
<td>S.</td>
<td>Pepperell, Mass.</td>
</tr>
<tr>
<td>Miller, Stuart Berwick</td>
<td></td>
<td>I. '01</td>
<td>No. Easton, Mass.</td>
</tr>
<tr>
<td>Milliken, Frank Wellman</td>
<td></td>
<td>'01</td>
<td>148 Hancock St., Cambridge, Mass.</td>
</tr>
<tr>
<td>Milliken, Humphreys</td>
<td></td>
<td>'04</td>
<td>39 Sycamore St., N'w Bedford, Mass.</td>
</tr>
<tr>
<td>Miner, Birchard Frank</td>
<td></td>
<td>S.</td>
<td>Stratford Hotel, Washington, D. C.</td>
</tr>
<tr>
<td>Mitchell, William Edward</td>
<td></td>
<td>VI. '01</td>
<td>14 James St., Boston, Mass.</td>
</tr>
<tr>
<td>Mixter, William Jason, Δ. Ψ.</td>
<td></td>
<td>VII. '02</td>
<td>180 Marlborough St., Boston, Mass.</td>
</tr>
<tr>
<td>Mohler, David D.</td>
<td></td>
<td>S. 4</td>
<td>4 Oak St., Waltham, Mass.</td>
</tr>
<tr>
<td>Monaghan, James Francis</td>
<td></td>
<td>VII. '02</td>
<td>180 Marlborough St., Boston, Mass.</td>
</tr>
<tr>
<td>Montgomery, Frank Park</td>
<td></td>
<td>S.</td>
<td>Brunswick, Me.</td>
</tr>
<tr>
<td>Montgomery, Robert James, Σ. A. E.</td>
<td></td>
<td>V.</td>
<td>Bacon St., Natick, Mass.</td>
</tr>
<tr>
<td>Moores, Ben Clayton</td>
<td></td>
<td>'04</td>
<td>1010 4th Ave., Seattle, Wash.</td>
</tr>
<tr>
<td>Moore, Howard</td>
<td></td>
<td>'04</td>
<td>324 Walnut St., Newtonville, Mass.</td>
</tr>
<tr>
<td>Moore, Hugh Chadwick</td>
<td></td>
<td>'04</td>
<td>Rochester, N. Y.</td>
</tr>
<tr>
<td>Moore, Philip Wyatt, Δ. T.</td>
<td></td>
<td>X.</td>
<td>268 Kent St., Brookline, Mass.</td>
</tr>
<tr>
<td>Morrill, Robie Walter</td>
<td></td>
<td>VI. '02</td>
<td>Salisbury, Mass.</td>
</tr>
<tr>
<td>Morris, Henry Curtis</td>
<td></td>
<td>S. W.</td>
<td>23rd St., New York, N. Y.</td>
</tr>
<tr>
<td>Morris, Ralph Davis</td>
<td></td>
<td>S.</td>
<td>Monson, Mass.</td>
</tr>
<tr>
<td>Morrison, Edward Stanley</td>
<td></td>
<td>'04</td>
<td>411 Canal St., Lawrence, Mass.</td>
</tr>
<tr>
<td>Morse, Howard Scott</td>
<td></td>
<td>I. '03</td>
<td>260 Ames St., Dedham, Mass.</td>
</tr>
<tr>
<td>Morse, John Russell</td>
<td></td>
<td>S.</td>
<td>932 No. Main St., Brockton, Mass.</td>
</tr>
<tr>
<td>Morse, Willard Vaughan</td>
<td></td>
<td>III. '02</td>
<td>Monterey, Mex.</td>
</tr>
<tr>
<td>Morton, Albert Nowell</td>
<td></td>
<td>'04</td>
<td>67 Canton St., Lowell, Mass.</td>
</tr>
<tr>
<td>Morton, Robert Bass, B.S.</td>
<td></td>
<td>VI. '01</td>
<td>Randolph, Vt.</td>
</tr>
</tbody>
</table>

*Died Nov. 15, 1900.*
<table>
<thead>
<tr>
<th>Name and Fraternity</th>
<th>Course</th>
<th>Class</th>
<th>Home Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moseley, Charles B., Ph.B.</td>
<td>XIII.</td>
<td>'03</td>
<td>Needham, Mass.</td>
</tr>
<tr>
<td>Mulherin, Charles Patrick, A.B.</td>
<td>S.</td>
<td>1211</td>
<td>Green St., Augusta, Ga.</td>
</tr>
<tr>
<td>Mullaly, Felix</td>
<td>S.</td>
<td>6</td>
<td>Ashmont St., New Dor., Mass.</td>
</tr>
<tr>
<td>Munster, August William</td>
<td>'04</td>
<td>25</td>
<td>Grant St., Waltham, Mass.</td>
</tr>
<tr>
<td>Murray, Joseph John</td>
<td>S.</td>
<td>184</td>
<td>Washington St., Newton, Mass.</td>
</tr>
<tr>
<td>Muzzy, Horace True</td>
<td>S.</td>
<td>72</td>
<td>Berkeley St., Somerville, Mass.</td>
</tr>
<tr>
<td>Nagel, Mortimer Livingston, Z. X.</td>
<td>S.</td>
<td>581</td>
<td>Delaware St., Buffalo, N.Y.</td>
</tr>
<tr>
<td>Nagle, Francis Aloysius</td>
<td>S.</td>
<td>31</td>
<td>Howland St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Needham, Harry Hampton</td>
<td>I.</td>
<td>'04</td>
<td>156 Lagrange St., W. Roxbury, Mass.</td>
</tr>
<tr>
<td>Nelson, Edwin Eugene</td>
<td>VI.</td>
<td>'02</td>
<td>85 Mansun St., Lowell, Mass.</td>
</tr>
<tr>
<td>Nettleton, Van Irving</td>
<td>I.</td>
<td>'03</td>
<td>19 Claremont Park, Boston, Mass.</td>
</tr>
<tr>
<td>Newlin, William Jesse, B.A.</td>
<td>II.</td>
<td>'01</td>
<td>Port Carbon, Pa.</td>
</tr>
<tr>
<td>Newman, Rolf Raymond</td>
<td>I.</td>
<td>'03</td>
<td>So. Riverside, Cal.</td>
</tr>
<tr>
<td>Nibecker, Claude Pendleton</td>
<td>IV.</td>
<td>'02</td>
<td>40 Woodward St., S. Boston, Mass.</td>
</tr>
<tr>
<td>Nichols, Albert Warren</td>
<td>II.</td>
<td>'02</td>
<td>17 High St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Nichols, Arthur Richardson</td>
<td>IV.</td>
<td>'03</td>
<td>Santa Barbara, Cal.</td>
</tr>
<tr>
<td>Nickerson, Arthur Henry</td>
<td>S.</td>
<td>803</td>
<td>Broom St., Wilmington, Del.</td>
</tr>
<tr>
<td>Nickerson, Frederic, X. Φ.</td>
<td>I.</td>
<td>'01</td>
<td>234 Court St., Keene, N. H.</td>
</tr>
<tr>
<td>Nields, Benjamin, Jr., Δ. Φ.</td>
<td>'04</td>
<td>15</td>
<td>Linden Ave., Somerville, Mass.</td>
</tr>
<tr>
<td>Niles, Eliot Wright</td>
<td>III.</td>
<td>'03</td>
<td>27 Pearl St., Medford, Mass.</td>
</tr>
<tr>
<td>Nims, Lester Albert</td>
<td>'04</td>
<td>Auburndale, Mass.</td>
<td></td>
</tr>
<tr>
<td>Nolan, John Joseph Aloysius</td>
<td>I.</td>
<td>'01</td>
<td>28 Shurtleff St., Chelsea, Mass.</td>
</tr>
<tr>
<td>Norton, Harold Lee</td>
<td>S.</td>
<td>28</td>
<td>Shurtleff St., Chelsea, Mass.</td>
</tr>
<tr>
<td>Noyes, Harry Fordham</td>
<td>II.</td>
<td>'03</td>
<td>8 Congress St., Lynn, Mass.</td>
</tr>
<tr>
<td>Nutter, Alfred DeWitt</td>
<td>S.</td>
<td>640</td>
<td>Western Ave., Lynn, Mass.</td>
</tr>
<tr>
<td>Nutter, Harold Godfrey</td>
<td>V.</td>
<td>'01</td>
<td>748 Tremont St., Boston, Mass.</td>
</tr>
<tr>
<td>Nutter, Ralph Herbert</td>
<td>'04</td>
<td>31</td>
<td>Rice St., Marlborough, Mass.</td>
</tr>
<tr>
<td>O'Leary, Andrew John</td>
<td>I.</td>
<td>'02</td>
<td>188 Hampden St., Holyoke, Mass.</td>
</tr>
<tr>
<td>Obear, George Barrows</td>
<td>'04</td>
<td>W.</td>
<td>Bridgewater, Mass.</td>
</tr>
<tr>
<td>Ober, Julius Edward</td>
<td>V.</td>
<td>'02</td>
<td>581 Cass Ave., Detroit, Mich.</td>
</tr>
<tr>
<td>O'Brien, Robert Emmett</td>
<td>'04</td>
<td>S.</td>
<td>Sharon, Mass.</td>
</tr>
<tr>
<td>O'Connell, George Paul</td>
<td>X.</td>
<td>'03</td>
<td>Blue Hill Farm, Readville, Mass.</td>
</tr>
<tr>
<td>O'Connor, Arthur Wellington</td>
<td>V.</td>
<td>'01</td>
<td>13 Rockland St., Roxbury, Mass.</td>
</tr>
<tr>
<td>O'Dell, John Ripley</td>
<td>'04</td>
<td>11</td>
<td>Gibbs St., Newton Centre, Mass.</td>
</tr>
<tr>
<td>Ogden, J. Bergen, M. D.</td>
<td>VI.</td>
<td>514</td>
<td>East 46th St., Chicago, Ill.</td>
</tr>
<tr>
<td>O'Leary, Andrew John</td>
<td>S.</td>
<td>18</td>
<td>Putnam St., W. Newton, Mass.</td>
</tr>
<tr>
<td>Omsted, Frederic Arthur</td>
<td>S.</td>
<td>240</td>
<td>Emerson Pl., Brooklyn, N. Y.</td>
</tr>
<tr>
<td>Ordway, Daniel Leighton</td>
<td>VI.</td>
<td>'02</td>
<td>12 Horton St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Orteifien, Adolph John</td>
<td>'04</td>
<td>422</td>
<td>W. Biddle St., Baltimore, Md.</td>
</tr>
<tr>
<td>Osborn, Harold</td>
<td>VI.</td>
<td>'04</td>
<td>135 H'ld Ave., Winchester, Mass.</td>
</tr>
<tr>
<td>Osgood, Isaac</td>
<td>VI.</td>
<td>'03</td>
<td>Larchmont, N. Y.</td>
</tr>
<tr>
<td>Ovington, Earle Gevis</td>
<td>II.</td>
<td>'03</td>
<td>142 Marcus Av., Willimantic, Conn.</td>
</tr>
</tbody>
</table>

335
<table>
<thead>
<tr>
<th>Name and Fraternity</th>
<th>Course</th>
<th>Class</th>
<th>Home Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paraschos, George Theophanes</td>
<td>I.</td>
<td>'02</td>
<td>Regie des Tabais, Con., Turkey</td>
</tr>
<tr>
<td>Parker, Edward F., Jr.</td>
<td>I.</td>
<td>'04</td>
<td>Reading, Mass.</td>
</tr>
<tr>
<td>Parker, Paul Revere</td>
<td>XIII.</td>
<td>'03</td>
<td>24 Wendell St., Cambridge, Mass.</td>
</tr>
<tr>
<td>Parrock, Percy Harry, Δ. T.</td>
<td>II.</td>
<td>'01</td>
<td>Youngstown, O.</td>
</tr>
<tr>
<td>Patch, Claude Eldred</td>
<td>XIII.</td>
<td>'02</td>
<td>28 Lincoln St., Stoneham, Mass.</td>
</tr>
<tr>
<td>Paterson, Robert Downing, Σ. X.</td>
<td>'04</td>
<td></td>
<td>2 West 51st St., New York, N. Y.</td>
</tr>
<tr>
<td>Peabody, Alfred</td>
<td></td>
<td></td>
<td>19 Chestnut St., Salem, Mass.</td>
</tr>
<tr>
<td>Pearson, Albert William</td>
<td>VI.</td>
<td>'03</td>
<td>205 Park St., W. Roxbury, Mass.</td>
</tr>
<tr>
<td>Pearson, Philip Coombs</td>
<td></td>
<td></td>
<td>7 Pond St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Pease, James Chase</td>
<td></td>
<td></td>
<td>Church St., Merrimac, Mass.</td>
</tr>
<tr>
<td>Peaslee, Hiram Fred</td>
<td>III.</td>
<td>'03</td>
<td>Plaistow, N. H.</td>
</tr>
<tr>
<td>Peiler, Karl Ernest</td>
<td>III.</td>
<td>'03</td>
<td>56 Allen Place, Hartford, Conn.</td>
</tr>
<tr>
<td>Pell, John Francis</td>
<td>IV.</td>
<td>'02</td>
<td>34 Hill St., Newark, N. J.</td>
</tr>
<tr>
<td>Pember, Walter Purton Ross</td>
<td></td>
<td></td>
<td>Needham, Mass.</td>
</tr>
<tr>
<td>Pemberton, Henry Augustus, X. Φ.</td>
<td>II.</td>
<td>'03</td>
<td>230 Woodland Rd., Aub'nd'e, Mass.</td>
</tr>
<tr>
<td>Pendergast, Roland Ball</td>
<td></td>
<td></td>
<td>5717 Monroe Ave., Chicago, Ill.</td>
</tr>
<tr>
<td>Perry, Oliver Hazard, Jr., Δ. T.</td>
<td>XIII.</td>
<td>'01</td>
<td>282 Nesmith St., Lowell, Mass.</td>
</tr>
<tr>
<td>Persons, Ashton Clifford</td>
<td>V.</td>
<td>'01</td>
<td>66 Bridge St., Winsted, Conn.</td>
</tr>
<tr>
<td>Peters, Robert Baylies</td>
<td></td>
<td></td>
<td>S. Des Moines, Iowa.</td>
</tr>
<tr>
<td>Pew, John Howard, B.S., Σ. X.</td>
<td>II.</td>
<td>'03</td>
<td>713 N. Highland Ave., Pittsb'g, Pa.</td>
</tr>
<tr>
<td>Philbrick, Burton Garfield</td>
<td>VII.</td>
<td>'02</td>
<td>32 Broad St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Philbrick, Joseph</td>
<td>X.</td>
<td>'02</td>
<td>32 Broad St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Philbrick, Joseph Ernest</td>
<td>X.</td>
<td>'01</td>
<td>1 Wabon St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Phillips, Lee</td>
<td>'04</td>
<td></td>
<td>West Hanover, Mass.</td>
</tr>
<tr>
<td>Phinney, Herbert</td>
<td></td>
<td></td>
<td>Monument Beach, Mass.</td>
</tr>
<tr>
<td>Phinney, Robert Morris</td>
<td></td>
<td></td>
<td>Barnstable, Mass.</td>
</tr>
<tr>
<td>Pickersgill, William Copeland</td>
<td></td>
<td></td>
<td>S. E. Providence, R. I.</td>
</tr>
<tr>
<td>Pierce, Fred Merton</td>
<td></td>
<td></td>
<td>Campello, Brockton, Mass.</td>
</tr>
<tr>
<td>Pierce, Howard LeRoy</td>
<td></td>
<td>'04</td>
<td>Clayton, N. J.</td>
</tr>
<tr>
<td>Firie, Frederick Alexander</td>
<td></td>
<td></td>
<td>24 Bradstreet Ave., Revere, Mass.</td>
</tr>
<tr>
<td>Pitts, Earl Phelps</td>
<td>II.</td>
<td>'02</td>
<td>Quincy Mansion, Wollaston, Mass.</td>
</tr>
<tr>
<td>Pitts, James Albert</td>
<td></td>
<td>'04</td>
<td>480 Main St., Fitchburg, Mass.</td>
</tr>
<tr>
<td>Place, Adolf Edwin</td>
<td></td>
<td>S.</td>
<td>53 Sycamore St., Somerville, Mass.</td>
</tr>
<tr>
<td>Place, Clyde Richmond</td>
<td>II.</td>
<td>'02</td>
<td>Mount Upton, N. Y.</td>
</tr>
<tr>
<td>Player, Preston, B.A.</td>
<td>II.</td>
<td>'01</td>
<td>Westminster Hotel, Boston, Mass.</td>
</tr>
<tr>
<td>Pollard, Edson Thompson</td>
<td>II.</td>
<td>'02</td>
<td>Rutland, Vt.</td>
</tr>
<tr>
<td>Pond, Harry Bradford, Σ. A. E.</td>
<td>I.</td>
<td>'02</td>
<td>Unionville, Conn.</td>
</tr>
<tr>
<td>Pope, Robert Anderson</td>
<td></td>
<td></td>
<td>104 High St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Porter, Arthur Peabody</td>
<td></td>
<td>'04</td>
<td>Shirley, Mass.</td>
</tr>
<tr>
<td>Porter, Charles Huntington, A.B.</td>
<td>VI.</td>
<td>'02</td>
<td>8 Greene St., Providence, R. I.</td>
</tr>
<tr>
<td>Porter, Stanley Lester</td>
<td></td>
<td></td>
<td>106 Oak St., Middleborough, Mass.</td>
</tr>
<tr>
<td>Potter, Abraham</td>
<td></td>
<td>S.</td>
<td>Vilno, Russia.</td>
</tr>
<tr>
<td>Potter, Philip Arthur</td>
<td></td>
<td></td>
<td>70 Sherman St., Springfield, Mass.</td>
</tr>
<tr>
<td>Powell, George Hardy, X. Φ.</td>
<td></td>
<td>'04</td>
<td>709 Park Ave., Baltimore, Md.</td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------</td>
<td>-------</td>
<td>--------------</td>
</tr>
<tr>
<td>Proctor, Redfield, Jr., Δ. Y.</td>
<td>S.</td>
<td>'04</td>
<td>213 Aspinwall Ave., Proctor, Vt.</td>
</tr>
<tr>
<td>Proudfoot, Gordon McIntyre</td>
<td></td>
<td></td>
<td>Belmont Ave., Chicago, Ill.</td>
</tr>
<tr>
<td>Proulx, Elzear Joseph, Φ. Γ. Δ.</td>
<td>I.</td>
<td>'01</td>
<td>270 Walnut St., Holyoke, Mass.</td>
</tr>
<tr>
<td>Puckey, Francis Willard, Θ. Ζ.</td>
<td>IV.</td>
<td>'01</td>
<td>111 N. Frinklin St., Wilkesbarre, Pa.</td>
</tr>
<tr>
<td>Pulsifer, Harrie Bridgman</td>
<td>V.</td>
<td>'03</td>
<td>Lebanon, N. H.</td>
</tr>
<tr>
<td>Putnam, James Russell</td>
<td>II.</td>
<td>'01</td>
<td>16 Elmore St., Newton Ctr., Mass.</td>
</tr>
<tr>
<td>Putnam, Walter</td>
<td></td>
<td></td>
<td>4503 Forrestville Ave., Chicago, Ill.</td>
</tr>
<tr>
<td>Randall, Fred Chesley</td>
<td>VI.</td>
<td>'02</td>
<td>118 Coyle St., Woodford, Me.</td>
</tr>
<tr>
<td>Rapp, Louis Ballauf, Δ. T.</td>
<td>III.</td>
<td>'03</td>
<td>139 Chapel St., Cincinnati, O.</td>
</tr>
<tr>
<td>Rash, Philip Dillman, A.B.</td>
<td>III.</td>
<td>'03</td>
<td>Earlington, Ky.</td>
</tr>
<tr>
<td>Raymond, Frank Everett</td>
<td></td>
<td></td>
<td>Essex, Mass.</td>
</tr>
<tr>
<td>Raymond, Herbert Emmons</td>
<td>III.</td>
<td>'02</td>
<td>84 Ellery St., Cambridge, Mass.</td>
</tr>
<tr>
<td>Read, Albert Manton, Φ. B. E.</td>
<td></td>
<td></td>
<td>63 Summit St., Pawtucket, R. I.</td>
</tr>
<tr>
<td>Read, Walter Augustine</td>
<td>X.</td>
<td>'01</td>
<td>24 St. Stephen St., Boston, Mass.</td>
</tr>
<tr>
<td>Reardon, Thomas F. E.</td>
<td>VI.</td>
<td>'01</td>
<td>Wash. &amp; Blossom Sts., Wells, Mass.</td>
</tr>
<tr>
<td>Redfield, John Howard</td>
<td>I.</td>
<td>'02</td>
<td>Wayne, Pa.</td>
</tr>
<tr>
<td>Reed, Frank Carlton, A.M.</td>
<td>VI.</td>
<td>'03</td>
<td>Grove City, Pa.</td>
</tr>
<tr>
<td>Reed, Rufus Cook</td>
<td>S.</td>
<td>'04</td>
<td>55 Lime St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Regan, John Ward</td>
<td>II.</td>
<td>'03</td>
<td>49 Winchester St., Boston, Mass.</td>
</tr>
<tr>
<td>Regestein, Walter Philip</td>
<td>V.</td>
<td>'03</td>
<td>92 Wyman St., Jamaica Plain, Mass.</td>
</tr>
<tr>
<td>Reid, Josiah Elamthan</td>
<td>II.</td>
<td>'03</td>
<td>173 Lexington, St., E. Boston, Mass.</td>
</tr>
<tr>
<td>Reynolds, David Solomon</td>
<td>S.</td>
<td>'04</td>
<td>San La Mar, Jamaica.</td>
</tr>
<tr>
<td>Reynolds, Irving Wood</td>
<td>VI.</td>
<td>'02</td>
<td>254 Main St., Brockton, Mass.</td>
</tr>
<tr>
<td>Rice, Arthur Parkman</td>
<td>S.</td>
<td>'04</td>
<td>51 Congress Ave., Chelsea, Mass.</td>
</tr>
<tr>
<td>Rice, Edmund Augustus</td>
<td>S.</td>
<td>'04</td>
<td>8 Summer St., Stamford, Conn.</td>
</tr>
<tr>
<td>Rice, Philip Benard</td>
<td>S.</td>
<td>'04</td>
<td>8 Summer St., Stamford, Conn.</td>
</tr>
<tr>
<td>Rice, Rowland Grenville</td>
<td>S.</td>
<td>'04</td>
<td>8 Summer St., Stamford, Conn.</td>
</tr>
<tr>
<td>Rice, Winthrop Merton</td>
<td>S.</td>
<td>'04</td>
<td>27 Va. Ave., S. W. Wash., D. C.</td>
</tr>
<tr>
<td>Richards, Alexander Webster</td>
<td>'04</td>
<td>30 Morton St., Andover, Mass.</td>
<td></td>
</tr>
<tr>
<td>Richards, George Chadwick</td>
<td>'04</td>
<td>39 East 53d St., New York, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Richardson, Bertram Allen</td>
<td>S.</td>
<td>'04</td>
<td>Cottage St., Brookline, Mass.</td>
</tr>
<tr>
<td>Richardson, Frederic Leopold Wm., A. B.</td>
<td>IV.</td>
<td>'03</td>
<td>10 Chatham Place, Lynn, Mass.</td>
</tr>
<tr>
<td>Richardson, Henry Kneeland</td>
<td>'04</td>
<td>'04</td>
<td>Pelham, N. H.</td>
</tr>
<tr>
<td>Richardson, Max Currier</td>
<td>S.</td>
<td>'05</td>
<td>365 Marlboro' St., Boston, Mass.</td>
</tr>
<tr>
<td>Richardson, Spencer Cumston, A. B.</td>
<td>IV.</td>
<td>'03</td>
<td>6 Bigelow St., Quincy, Mass.</td>
</tr>
<tr>
<td>Ricker, Elmer Francis</td>
<td>S.</td>
<td>'05</td>
<td>367 Blackstone St., Providence, R.I.</td>
</tr>
<tr>
<td>Ricketts, Alfred Henry</td>
<td>III.</td>
<td>'03</td>
<td>251 Central St., Auburndale, Mass.</td>
</tr>
<tr>
<td>Riddell, Guy Crosby</td>
<td>S.</td>
<td>'06</td>
<td>Fiske St., Waltham, Mass.</td>
</tr>
<tr>
<td>Riley, James Garfield</td>
<td>II.</td>
<td>'02</td>
<td>268 Walnut St., Brookline, Mass.</td>
</tr>
<tr>
<td>Ritchie, Andrew Eliot, Δ. Ψ.</td>
<td>XIII.</td>
<td>'01</td>
<td>66 Lexington Ave., Columbus, O.</td>
</tr>
<tr>
<td>Robbins, Frank Ambrose, Jr.</td>
<td>'04</td>
<td>32 Lynde St., Salem, Mass.</td>
<td></td>
</tr>
<tr>
<td>Roberts, Arthur Osborne</td>
<td>S.</td>
<td>'04</td>
<td>Hinsdale, N. H.</td>
</tr>
<tr>
<td>Robertson, Winfred Franklin</td>
<td>S.</td>
<td></td>
<td>Canton, Mass.</td>
</tr>
<tr>
<td>Robinson, John Albert</td>
<td>V.</td>
<td>'01</td>
<td>No. Andover, Mass.</td>
</tr>
<tr>
<td>Robinson, Ralph Chandler</td>
<td>S.</td>
<td>'04</td>
<td>47 Allen St., Boston, Mass.</td>
</tr>
<tr>
<td>Robinson, Samuel</td>
<td>'04</td>
<td>961 Beacon St., Newton Ctr., Mass.</td>
<td></td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Rodgers, Charles Loring, A. T.</td>
<td></td>
<td>VI.</td>
<td>115 Oak St., Binghamton, N. Y.</td>
</tr>
<tr>
<td>Rogers, Gardner, A. T.</td>
<td></td>
<td>'02</td>
<td>1061 Beacon St., Brookline, Mass.</td>
</tr>
<tr>
<td>Rogers, George Dennison</td>
<td></td>
<td>S.</td>
<td>109 Prospect St., Gloucester, Mass.</td>
</tr>
<tr>
<td>Rollins, Harry Tebbets</td>
<td></td>
<td>'04</td>
<td>721 Third St., Des Moines, Ia.</td>
</tr>
<tr>
<td>Root, Franklin Tinker, A. T.</td>
<td></td>
<td>X.</td>
<td>100 Harrison St., E. Orange, N. J.</td>
</tr>
<tr>
<td>Rose, Carlton Raymond</td>
<td></td>
<td></td>
<td>444 State St., Ann Arbor, Mich.</td>
</tr>
<tr>
<td>Ross, George Allen</td>
<td></td>
<td>'04</td>
<td>4619 St. Catherine St., Mont., Can.</td>
</tr>
<tr>
<td>Ross, John Alexander, Jr.</td>
<td></td>
<td>'01</td>
<td>Hampton, N. H.</td>
</tr>
<tr>
<td>Rossmassler, Carl</td>
<td></td>
<td>S.</td>
<td>607 Church Lane, Germantown, Pa.</td>
</tr>
<tr>
<td>Rowe, Allan Winter</td>
<td></td>
<td>X.</td>
<td>43 Pleasant St., Gloucester, Mass.</td>
</tr>
<tr>
<td>Rowe, Henry Woodbury</td>
<td></td>
<td>'04</td>
<td>185 Jackson St., Lawrence, Mass.</td>
</tr>
<tr>
<td>Rupf, Ernest Louis</td>
<td></td>
<td>'04</td>
<td>128 Union St., Lawrence, Mass.</td>
</tr>
<tr>
<td>Russell, Lester Asia</td>
<td></td>
<td>'04</td>
<td>331 Wilder St., Lowell, Mass.</td>
</tr>
<tr>
<td>Ruxton, Edward James</td>
<td></td>
<td>II.</td>
<td>Ludlow, Mass.</td>
</tr>
<tr>
<td>Sabin, Joy Horace</td>
<td></td>
<td>S.</td>
<td>Aurora, Ill.</td>
</tr>
<tr>
<td>Sammet, Charles Frank</td>
<td></td>
<td>V.</td>
<td>73 Sheridan St., Jamaica Pl'n, Mass.</td>
</tr>
<tr>
<td>Sammet, George Victor</td>
<td></td>
<td>V.</td>
<td>73 Sheridan St., Jamaica Pl'n, Mass.</td>
</tr>
<tr>
<td>Sammis, Theodore Augustus, Jr.</td>
<td></td>
<td>'04</td>
<td>1714 Hawthorne Ave., Minn'p'is, M.</td>
</tr>
<tr>
<td>Sanborn, George Warren</td>
<td></td>
<td>'04</td>
<td>31 Austin St., Hyde Park, Mass.</td>
</tr>
<tr>
<td>Sanborn, John Royal</td>
<td></td>
<td>'04</td>
<td>B'way &amp; Powell Ave., Newp't, R. I.</td>
</tr>
<tr>
<td>Sargent, Andrew Robeson</td>
<td></td>
<td>S.</td>
<td>Brookline, Mass.</td>
</tr>
<tr>
<td>Saville, Charles, Jr.</td>
<td></td>
<td>'04</td>
<td>Waban, Mass.</td>
</tr>
<tr>
<td>Sawyer, Charles Adrian, Jr., F. B. E.</td>
<td></td>
<td>'02</td>
<td>1640 Indiana Ave., Chicago, Ill.</td>
</tr>
<tr>
<td>Sawyer, Houghton</td>
<td></td>
<td>S.</td>
<td>San Francisco, Cal.</td>
</tr>
<tr>
<td>Saylor, Henry Hodgman, A. K. E.</td>
<td></td>
<td>'02</td>
<td>351 King St., Pottstown, Pa.</td>
</tr>
<tr>
<td>Sayward, William James, B. S.</td>
<td></td>
<td>IV.</td>
<td>Woodstock, Vt.</td>
</tr>
<tr>
<td>Scannell, Francis Timothy</td>
<td></td>
<td>'04</td>
<td>535 Westford St., Lowell, Mass.</td>
</tr>
<tr>
<td>Schaefer, Henry Christian</td>
<td></td>
<td>'04</td>
<td>655 Oak St., Buffalo, N. Y.</td>
</tr>
<tr>
<td>Scherrrer, Herman Adolph</td>
<td></td>
<td>IV.</td>
<td>713 Union St., Indianapolis, Ind.</td>
</tr>
<tr>
<td>Schlemain, Leonard Ernest</td>
<td></td>
<td>S.</td>
<td>81 Francis St., Brookline, Mass.</td>
</tr>
<tr>
<td>Schmidt, Caspar Anthony</td>
<td></td>
<td>III.</td>
<td>458 Hastings St., Detroit, Mich.</td>
</tr>
<tr>
<td>Schwartz, Aaron</td>
<td></td>
<td>XII.</td>
<td>177 Chambers St., Boston, Mass.</td>
</tr>
<tr>
<td>Schwartz, Melvin Humbert</td>
<td></td>
<td>'04</td>
<td>Weston, Mass.</td>
</tr>
<tr>
<td>Scofield, Edward Candeel</td>
<td></td>
<td>S.</td>
<td>Sound View Ave., Stamford, Conn.</td>
</tr>
<tr>
<td>Scudder, Oliver Porter</td>
<td></td>
<td></td>
<td>60 Wyman St., Brockton, Mass.</td>
</tr>
<tr>
<td>Seabury, George Tilley, A. T.</td>
<td></td>
<td>XI.</td>
<td>16 Mann Ave., Newport, R. I.</td>
</tr>
<tr>
<td>Sears, Stanley Collamore, A. T.</td>
<td></td>
<td>'01</td>
<td>93 Crest Ave., Winthrop, Mass.</td>
</tr>
<tr>
<td>Sears, Thomas Everett</td>
<td></td>
<td>'03</td>
<td>2 Court St., Plymouth, Mass.</td>
</tr>
<tr>
<td>Sears, Walton Harvey</td>
<td></td>
<td>II.</td>
<td>8 Irving St., Arlington, Mass.</td>
</tr>
<tr>
<td>Seaver, Edward, Jr.</td>
<td></td>
<td>'01</td>
<td>22 Westminster Ave., Rox., Mass.</td>
</tr>
<tr>
<td>Setz, Carl Frederick</td>
<td></td>
<td>S.</td>
<td>Herculanum, Mo.</td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Sexton, Frederic Henry</td>
<td>III.</td>
<td>'01</td>
<td>Billerica, Mass.</td>
</tr>
<tr>
<td>Seyms, George Beach, Δ. T.</td>
<td>II.</td>
<td>'02</td>
<td>181 Collins St., Hartford, Conn.</td>
</tr>
<tr>
<td>Shaw, George Herbert</td>
<td>X.</td>
<td>'03</td>
<td>Belmont, Mass.</td>
</tr>
<tr>
<td>Shaw, Hollis Hunnewell, A.B.</td>
<td>'04</td>
<td>130</td>
<td>Beacon St., Boston, Mass.</td>
</tr>
<tr>
<td>Shaw, John Whitman</td>
<td></td>
<td></td>
<td>154 Clifton St., Malden, Mass.</td>
</tr>
<tr>
<td>Sheafe, Calvin Richard</td>
<td></td>
<td>'04</td>
<td>Brookline, Mass.</td>
</tr>
<tr>
<td>Sheafe, James S., B. S., Σ. Χ.</td>
<td>II.</td>
<td>'03</td>
<td>1017 Queen Anne Av., Seattle, W.</td>
</tr>
<tr>
<td>Shedd, Charles Levi</td>
<td></td>
<td>S.</td>
<td>Portsmouth, N. H.</td>
</tr>
<tr>
<td>Sherman, Frank Arnold</td>
<td>III.</td>
<td>'03</td>
<td>46 Granite St., Westerly, R. I.</td>
</tr>
<tr>
<td>Sherman, Herbert Leslie</td>
<td></td>
<td>V.</td>
<td>Belmont, Mass.</td>
</tr>
<tr>
<td>Sherrill, Harold Walter, Σ. X.</td>
<td>'04</td>
<td>75</td>
<td>Washington St., P'ghbpsie, N.Y.</td>
</tr>
<tr>
<td>Shivers, Clifford Hopkins, Θ. Ξ.</td>
<td>IV.</td>
<td>'01</td>
<td>Woodbury, N. J.</td>
</tr>
<tr>
<td>Shohl, Richard Simon</td>
<td></td>
<td>'04</td>
<td>2929 Gilbert Ave., Cincinnati, O.</td>
</tr>
<tr>
<td>Shores, Herbert Leighton</td>
<td></td>
<td>S.</td>
<td>Rockland, Mass.</td>
</tr>
<tr>
<td>Sibbett, George E.</td>
<td></td>
<td>'04</td>
<td>Brownsville, Pa.</td>
</tr>
<tr>
<td>Simons, Herman Roswell</td>
<td></td>
<td>'04</td>
<td>178 Lexington Av., Providence, R.I.</td>
</tr>
<tr>
<td>Simon, Jay Bear, B.S.</td>
<td>II.</td>
<td>'01</td>
<td>Rock Island, Ill.</td>
</tr>
<tr>
<td>Simonds, Roland Emerson</td>
<td></td>
<td>'04</td>
<td>16 Vine St., Winchester, Mass.</td>
</tr>
<tr>
<td>Simonds, Russell Bissell</td>
<td>IV.</td>
<td>'03</td>
<td>12 High St., Greenfield, Mass.</td>
</tr>
<tr>
<td>Simpson, Horace Gardner</td>
<td></td>
<td>'04</td>
<td>22 Chestnut St., Chelsea, Mass.</td>
</tr>
<tr>
<td>Sisson, Charles Hamilton, A.B., Δ. T.</td>
<td>XIII.</td>
<td>'01</td>
<td>Langham Hotel, Boston, Mass.</td>
</tr>
<tr>
<td>Skene, Norman Locke</td>
<td></td>
<td>'07</td>
<td>67 Walnut Ave., Roxbury, Mass.</td>
</tr>
<tr>
<td>Skowronski, Stanislaus</td>
<td></td>
<td>S.</td>
<td>163 W. Newton St., Boston, Mass.</td>
</tr>
<tr>
<td>Small, Harry Alonzo Campbell</td>
<td></td>
<td>'04</td>
<td>220 Lafayette St., Jacksonville, Fl.</td>
</tr>
<tr>
<td>Smart, Charles Edwin</td>
<td></td>
<td>'04</td>
<td>38 Conway St., Greenfield, Mass.</td>
</tr>
<tr>
<td>Smith, Arthur Ditson</td>
<td></td>
<td>'04</td>
<td>38 Falcon St., East Boston, Mass.</td>
</tr>
<tr>
<td>Smith, Charles Alfred, Δ. K. E.</td>
<td>III.</td>
<td>'02</td>
<td>Oconto, Wis.</td>
</tr>
<tr>
<td>Smith, Daniel Arthur, Jr.</td>
<td>VI.</td>
<td>'03</td>
<td>29 Mary St., Newport, R. I.</td>
</tr>
<tr>
<td>Smith, Francis Fay Hill</td>
<td></td>
<td>S.</td>
<td>1 Cedar St., Boston, Mass.</td>
</tr>
<tr>
<td>Smith, Frederick Williamson</td>
<td>I.</td>
<td>'01</td>
<td>4 E. Biddle St., Baltimore, Md.</td>
</tr>
<tr>
<td>Smith, Horace Millikin</td>
<td>II.</td>
<td>'03</td>
<td>Terre Haute, Ind.</td>
</tr>
<tr>
<td>Smith, James Woodberry</td>
<td>I.</td>
<td>'02</td>
<td>Lexington, Mass.</td>
</tr>
<tr>
<td>Smith, John Monroe</td>
<td>I.</td>
<td>'03</td>
<td>Irvona, Pa.</td>
</tr>
<tr>
<td>Smith, Leon Hills</td>
<td></td>
<td>'04</td>
<td>34 Orchard St., Leominster, Mass.</td>
</tr>
<tr>
<td>Smith, Lowell Eldridge</td>
<td>III.</td>
<td>'03</td>
<td>Chelsea, Mass.</td>
</tr>
<tr>
<td>Smith, Philip Reeder, X. Φ.</td>
<td>II.</td>
<td>'02</td>
<td>2316 Grand Ave., Milwaukee, Wis.</td>
</tr>
<tr>
<td>Smith, Preston Morris, Δ. K. E.</td>
<td></td>
<td>'04</td>
<td>1615 West Genesee St., Syra., N.Y.</td>
</tr>
<tr>
<td>Söhier, Walter</td>
<td></td>
<td>S.</td>
<td>Concord, Mass.</td>
</tr>
<tr>
<td>Solomon, Benjamin David</td>
<td>VI.</td>
<td>'03</td>
<td>681 Shawmut Ave., Boston, Mass.</td>
</tr>
<tr>
<td>Southwick, George Scudder</td>
<td></td>
<td>S.</td>
<td>107 W. Liberty St., Rome, N. Y.</td>
</tr>
<tr>
<td>Spalding, George Riddell</td>
<td>V.</td>
<td>'03</td>
<td>Brown Square, Newb'port, Mass.</td>
</tr>
<tr>
<td>Spamer, Richard Fuller</td>
<td></td>
<td>'04</td>
<td>4962 Duncan Ave., St. Louis, Mo.</td>
</tr>
<tr>
<td>Spargo, John Nicholas</td>
<td></td>
<td>'04</td>
<td>548 25th St., Ogden, Utah.</td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Sperry, Charles Stillman, Jr., Δ. Ψ.</td>
<td>'04</td>
<td>WDC</td>
<td>Washington, D.C.</td>
</tr>
<tr>
<td>Sprague, Nathaniel, Jr.</td>
<td>'04</td>
<td>S</td>
<td>Lanesville, Mass.</td>
</tr>
<tr>
<td>Standley, Frederick Andrew</td>
<td>'04</td>
<td>49</td>
<td>Saratoga St., Lynn, Mass.</td>
</tr>
<tr>
<td>Stanhope, William Edward</td>
<td>'04</td>
<td>14</td>
<td>Broadway, Newport, R. I.</td>
</tr>
<tr>
<td>Staples, Percy Alexander</td>
<td>'04</td>
<td>136</td>
<td>Free St., Portland, Maine.</td>
</tr>
<tr>
<td>Starbird, Chester Bates</td>
<td>'04</td>
<td>35</td>
<td>15th St., Buffalo, N. Y.</td>
</tr>
<tr>
<td>Starr, Clarence Douglass</td>
<td>'02</td>
<td>16</td>
<td>Richards St., N. London, Conn.</td>
</tr>
<tr>
<td>Starr, Frank Charles</td>
<td>'04</td>
<td>146</td>
<td>Oxford St., N. Camb, Mass.</td>
</tr>
<tr>
<td>St. Clair, Samuel Winthrop</td>
<td>'01</td>
<td>East Milton, Mass.</td>
<td></td>
</tr>
<tr>
<td>Stearns, Ralph Hamilton</td>
<td>'01</td>
<td>108</td>
<td>Cushing Ave., Dorch'ter, Mass.</td>
</tr>
<tr>
<td>Stebbins, Charles Henry</td>
<td>'04</td>
<td>59</td>
<td>Malvern St., Melrose, Mass.</td>
</tr>
<tr>
<td>Stetson, Harold Clap</td>
<td>'04</td>
<td>Walpole, Mass.</td>
<td></td>
</tr>
<tr>
<td>Stevens, Howard Leslie</td>
<td>'04</td>
<td>11</td>
<td>Everett St., Middleboro, Mass.</td>
</tr>
<tr>
<td>Stevenson, Henry Joseph</td>
<td>'04</td>
<td>41</td>
<td>Princeton St., E. Boston, Mass.</td>
</tr>
<tr>
<td>Stickney, William, A. B.</td>
<td>'04</td>
<td>26</td>
<td>West 8th St., New York, N. Y.</td>
</tr>
<tr>
<td>Stiles, Harry Allard</td>
<td>'04</td>
<td>52</td>
<td>Summit Ave., Brighton, Mass.</td>
</tr>
<tr>
<td>Stimson, Henry Stanton Bogue</td>
<td>'04</td>
<td>25</td>
<td>Fountain St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Stix, Harry Friedlander</td>
<td>'04</td>
<td>689</td>
<td>Gholson Ave., Cincinnati, O.</td>
</tr>
<tr>
<td>Stockman, Orlando Sargent</td>
<td>'04</td>
<td>31</td>
<td>Winter St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Stone, Solon Jones</td>
<td>'04</td>
<td>24</td>
<td>Tyler St., Boston, Mass.</td>
</tr>
<tr>
<td>Stover, Charles Clark</td>
<td>'01</td>
<td>62</td>
<td>Congress St., Amesbury, Mass.</td>
</tr>
<tr>
<td>Stow, Kent Tillinghast, Σ. A. E.</td>
<td>'02</td>
<td>50</td>
<td>Richmond Ave., Buffalo, N. Y.</td>
</tr>
<tr>
<td>Straub, Herman Arnold</td>
<td>'04</td>
<td>5216</td>
<td>Liberty Ave., Pittsburg, Pa.</td>
</tr>
<tr>
<td>Streatn, Richard</td>
<td>'04</td>
<td>Frankfort, Germany</td>
<td></td>
</tr>
<tr>
<td>Strong, Homer David</td>
<td>'04</td>
<td>30</td>
<td>Walnut St., Winsted, Conn.</td>
</tr>
<tr>
<td>Sturtevant, Edwin Whitman, X. Φ.</td>
<td>'02</td>
<td>2950</td>
<td>Calumet Ave., Chicago, Ill.</td>
</tr>
<tr>
<td>Sturtevant, William Isaac</td>
<td>'01</td>
<td>2338</td>
<td>Wall Ave., Ogden, Utah</td>
</tr>
<tr>
<td>Sucro, William George</td>
<td>'01</td>
<td>Catonsville, Md.</td>
<td></td>
</tr>
<tr>
<td>Sullivan, Richard Thomas</td>
<td>'04</td>
<td>300</td>
<td>Elliot St., Newton Upper Falls.</td>
</tr>
<tr>
<td>Sulzer, Albert Frederick</td>
<td>'01</td>
<td>1306</td>
<td>Perry St., Chicago, Ill.</td>
</tr>
<tr>
<td>Sumner, Warren Ellis</td>
<td>'03</td>
<td>42</td>
<td>Allen St., Brockton, Mass.</td>
</tr>
<tr>
<td>Swan, Arthur Eugene</td>
<td>'02</td>
<td>25</td>
<td>Wabon St., Roxbury, Mass.</td>
</tr>
<tr>
<td>Sweetser, Albert Edwin</td>
<td>'04</td>
<td>231</td>
<td>Pleasant St., Brockton, Mass.</td>
</tr>
<tr>
<td>Sweetser, Philip Starr</td>
<td>'04</td>
<td>77</td>
<td>Griffin Ave., Newton Highlands.</td>
</tr>
<tr>
<td>Sweetser, William Jordan</td>
<td>'01</td>
<td>77</td>
<td>Griffin Ave., Newton Highlands.</td>
</tr>
<tr>
<td>Swett, George Wright</td>
<td>'04</td>
<td>228</td>
<td>Wash'ton Ave., Chelsea, Mass.</td>
</tr>
<tr>
<td>Taft, Augustus Read</td>
<td>'01</td>
<td>966</td>
<td>Adams St., Wilmington, Del.</td>
</tr>
<tr>
<td>Taylor, Alexander Jenifer, C. E.</td>
<td>'03</td>
<td>506</td>
<td>E. Main St., Norfolk, Va.</td>
</tr>
<tr>
<td>Taylor, Floyd Thomas</td>
<td>'04</td>
<td>18</td>
<td>8th St., E. Providence, R. I.</td>
</tr>
<tr>
<td>Taylor, George Neil</td>
<td>'02</td>
<td>32</td>
<td>Granston Ave., Newport, R. I.</td>
</tr>
<tr>
<td>Taylor, Grant Sterne</td>
<td>'02</td>
<td>London, Eng.</td>
<td></td>
</tr>
<tr>
<td>Taylor, James Loockermann, Jr., Δ. Ψ.</td>
<td>'01</td>
<td>19</td>
<td>Maple St., Arlington, Mass.</td>
</tr>
<tr>
<td>Taylor, Warren Crosby</td>
<td>'02</td>
<td>180</td>
<td>Maurinuth St., Lowell, Mass.</td>
</tr>
<tr>
<td>Teague, Walter Owen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>--------</td>
<td>--------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Tenney, William Field</td>
<td>'04</td>
<td>West</td>
<td>West Acton, Mass.</td>
</tr>
<tr>
<td>Thatcher, Edward Gordon, Σ A. E.</td>
<td>V. '01</td>
<td>Middle</td>
<td>Middleboro, Mass.</td>
</tr>
<tr>
<td>Thomas, Charles Sydney, Σ X.</td>
<td></td>
<td></td>
<td>Denver, Col.</td>
</tr>
<tr>
<td>Thompson, Edward Cutter, Σ X.</td>
<td>II. '03</td>
<td>697</td>
<td>Columbia Road, Boston, Mass.</td>
</tr>
<tr>
<td>Thompson, Herman Ellis</td>
<td></td>
<td>298</td>
<td>Pawtucket St., Lowell, Mass.</td>
</tr>
<tr>
<td>Thurlow, Leon Rhodes, Σ X.</td>
<td></td>
<td>392</td>
<td>Westford St., Lowell, Mass.</td>
</tr>
<tr>
<td>Thurlow, Oscar Gowen</td>
<td></td>
<td>15</td>
<td>Oak St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Thurston, Ralph Emery</td>
<td></td>
<td>344</td>
<td>Highl'd Ave., Fall River, Mass.</td>
</tr>
<tr>
<td>Titcomb, Roland Elbert</td>
<td>'04</td>
<td>71</td>
<td>Middle St., Newburyport, Mass.</td>
</tr>
<tr>
<td>Todd, William Newman</td>
<td>IV. '02</td>
<td>755</td>
<td>Wash'tn St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Tolman, Charles Prescott</td>
<td>X. '03</td>
<td>W.</td>
<td>Newton, Mass.</td>
</tr>
<tr>
<td>Tolman, Richard Chace</td>
<td>'04</td>
<td>Parker</td>
<td>Road, Wakefield, Mass.</td>
</tr>
<tr>
<td>Tompson, George Morris, Jr.</td>
<td></td>
<td>95</td>
<td>Antrim St., Cambridge, Mass.</td>
</tr>
<tr>
<td>Toole, Francis Patrick</td>
<td>II. '02</td>
<td>Gardner</td>
<td>Mass.</td>
</tr>
<tr>
<td>Town, Willis Harvey</td>
<td>IV. '02</td>
<td>42</td>
<td>Carleton St., Newton, Mass.</td>
</tr>
<tr>
<td>Townsend, Gilbert</td>
<td>IV. '01</td>
<td>Rosemount, Westmount, Que.</td>
<td></td>
</tr>
<tr>
<td>Tripp, Edwin Pool</td>
<td>II. '02</td>
<td>15</td>
<td>Peabody St., Newton, Mass.</td>
</tr>
<tr>
<td>Trowbridge, Henry Otis</td>
<td>'04</td>
<td>40</td>
<td>Cross St., W. Newton, Mass.</td>
</tr>
<tr>
<td>Tuell, Samuel Bennett</td>
<td>X. '01</td>
<td>3</td>
<td>Arnold St., Ar'ton H'ts, Mass.</td>
</tr>
<tr>
<td>Tufts, Charles Gilman</td>
<td>'04</td>
<td>7</td>
<td>Com'wealth Av., Gloucester, Mass.</td>
</tr>
<tr>
<td>Turner, Everett Pendleton, Δ T.</td>
<td>XIII. '02</td>
<td>Arlington, Mass.</td>
<td></td>
</tr>
<tr>
<td>Turner, Howard Chubbuck, Δ T.</td>
<td>S.</td>
<td>717</td>
<td>Garrison Ave., St. Louis, Mo.</td>
</tr>
<tr>
<td>Turner, John Bice, Φ B. E.</td>
<td>'04</td>
<td>72</td>
<td>Esmond St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Underhill, Charles Francis</td>
<td>I. '03</td>
<td>Chicago, Ill.</td>
<td></td>
</tr>
<tr>
<td>Underwood, Lawrence Hosmer</td>
<td>IX. '02</td>
<td>59</td>
<td>E. Woodstock, Conn.</td>
</tr>
<tr>
<td>Upham, Everett Lyman</td>
<td>'04</td>
<td>281</td>
<td>Commercial St., Lynn, Mass.</td>
</tr>
<tr>
<td>Usher, Charles Frederic</td>
<td>S.</td>
<td></td>
<td>Baltimore St., Lynn, Mass.</td>
</tr>
<tr>
<td>Valiquet, Harry Howell</td>
<td>VI. '02</td>
<td>22</td>
<td>Albion St., Lawrence, Mass.</td>
</tr>
<tr>
<td>Vaughan, Louis Edgar</td>
<td>'04</td>
<td>73</td>
<td>Main St., Binghamton, N. Y.</td>
</tr>
<tr>
<td>Vosbury, Winfred De Witt</td>
<td>'04</td>
<td>Freehold, N. J.</td>
<td></td>
</tr>
<tr>
<td>Vredenburgh, John Van Vorst</td>
<td>'04</td>
<td>213</td>
<td>26th St., Milwaukee, Wis.</td>
</tr>
<tr>
<td>Wakefield, Thomas, X. Φ.</td>
<td>'04</td>
<td>55</td>
<td>East 65th St., New York, N. Y.</td>
</tr>
<tr>
<td>Walcott, Stuart Lanier</td>
<td>IX. '01</td>
<td>32</td>
<td>W. Central St., Natick, Mass.</td>
</tr>
<tr>
<td>Walcott, William Wright, Σ A. E.</td>
<td>X. '02</td>
<td>Groveland, Mass.</td>
<td></td>
</tr>
<tr>
<td>Wales, Royal Linfield</td>
<td>S.</td>
<td>New York, N. Y.</td>
<td></td>
</tr>
<tr>
<td>Walker, Elisha A.B.</td>
<td>S.</td>
<td>Pittsfield, Mass.</td>
<td></td>
</tr>
<tr>
<td>Walker, Frank Ray</td>
<td>S.</td>
<td>5604</td>
<td>Jackson Ave., Chicago, Ill.</td>
</tr>
<tr>
<td>Walker, Murray John</td>
<td>S.</td>
<td>301</td>
<td>Angell St., Providence, R. I.</td>
</tr>
<tr>
<td>Wallace, Charles Marmont</td>
<td>'04</td>
<td>133</td>
<td>Sycamore St., Somerville, Mass.</td>
</tr>
<tr>
<td>Wastcot, Edward</td>
<td>S.</td>
<td>5810</td>
<td>Rosalie Ct., Chicago, Ill.</td>
</tr>
<tr>
<td>Waterman, William, Jr.</td>
<td>S.</td>
<td>333</td>
<td>Rush St., Chicago, Ill.</td>
</tr>
<tr>
<td>Watkins, Frederick Arthur, S.B.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name and Fraternity</td>
<td>Course</td>
<td>Class</td>
<td>Home Address</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------</td>
<td>-------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Weaver, Maurice Edgar</td>
<td></td>
<td>'04</td>
<td>2405 32nd St., Washington, D.C.</td>
</tr>
<tr>
<td>Webster, Arthur Stanley</td>
<td></td>
<td>'04</td>
<td>1327 H St., Lincoln, Neb.</td>
</tr>
<tr>
<td>Webster, Fred Bibber</td>
<td>XIII.</td>
<td>'01</td>
<td>27 Putnam Ave., Cambridge, Mass.</td>
</tr>
<tr>
<td>Weeks, Paul, B.Sc.</td>
<td>II.</td>
<td>'01</td>
<td>4 Mt. Morris Ave., New York, N.Y.</td>
</tr>
<tr>
<td>Well, Asher Lowenstein</td>
<td>III.</td>
<td>'01</td>
<td>31 Robertson St., W. Quincy, Mass.</td>
</tr>
<tr>
<td>Welch, William Wells</td>
<td>IV.</td>
<td>'02</td>
<td>E. Jaffrey, N. H.</td>
</tr>
<tr>
<td>Wellman, Walter Jesse</td>
<td></td>
<td>'02</td>
<td>335 S. 16th St., Quincy, Ill.</td>
</tr>
<tr>
<td>Wells, Albert Warren</td>
<td>XI.</td>
<td>'02</td>
<td>32 Orchard St., Lawrence, Mass.</td>
</tr>
<tr>
<td>Wells, Chester Harold</td>
<td></td>
<td>'04</td>
<td>No. Cambridge, Mass.</td>
</tr>
<tr>
<td>Wemyss, Duncan</td>
<td>I.</td>
<td>'04</td>
<td>117 Brownell St., Providence, R.I.</td>
</tr>
<tr>
<td>Wendel, Conrad</td>
<td>III.</td>
<td>'03</td>
<td>145 East 61st St., New York, N.Y.</td>
</tr>
<tr>
<td>Wentworth, Reginald Andrew</td>
<td>II.</td>
<td>'02</td>
<td>Hopedale, Mass.</td>
</tr>
<tr>
<td>Wertheimer, Milford, X. Ph.</td>
<td>VI.</td>
<td>'03</td>
<td>24 Adams Ave., W. Newton, Mass.</td>
</tr>
<tr>
<td>Westcott, Henry Wilmirth</td>
<td></td>
<td>'02</td>
<td>25 Mather St., Dorchester, Mass.</td>
</tr>
<tr>
<td>Wetherbee, George Merveze</td>
<td></td>
<td>'04</td>
<td>Wellesley, Mass.</td>
</tr>
<tr>
<td>Wetmore, Wade Lyndon</td>
<td></td>
<td>'04</td>
<td>Massapequa, N. Y.</td>
</tr>
<tr>
<td>Weymouth, Albert Pierce</td>
<td>II.</td>
<td>'04</td>
<td>109 Walnut Ave., Roxbury, Mass.</td>
</tr>
<tr>
<td>Whitaker, William Gordon Howard, Jr.</td>
<td>V.</td>
<td>'04</td>
<td>321 Hanover St., Boston.</td>
</tr>
<tr>
<td>Whitcomb, William Henry</td>
<td></td>
<td>'03</td>
<td>99 Park St., Medford, Mass.</td>
</tr>
<tr>
<td>White, Edward Wallace</td>
<td></td>
<td>'03</td>
<td>109 Walnut Ave., Roxbury, Mass.</td>
</tr>
<tr>
<td>White, Harry Ransome</td>
<td></td>
<td>'03</td>
<td>236 Merrimac St., N'wb'ryp't, Mass.</td>
</tr>
<tr>
<td>White, Jules Edward</td>
<td></td>
<td>'02</td>
<td>74 Waban Park, Newton, Mass.</td>
</tr>
<tr>
<td>White, Louis Benjamin</td>
<td></td>
<td>'04</td>
<td>3 Mystic Ave., Winchester, Mass.</td>
</tr>
<tr>
<td>White, Robert, Jr.</td>
<td></td>
<td>'01</td>
<td>329 Jefferson Ave., Scranton, Pa.</td>
</tr>
<tr>
<td>Whitman, Ralph</td>
<td></td>
<td>'02</td>
<td>1 Wentworth Ave., Lowell, Mass.</td>
</tr>
<tr>
<td>Whitmore, Walter</td>
<td></td>
<td>'02</td>
<td>140 Bacon St., Natick, Mass.</td>
</tr>
<tr>
<td>Whitney, Philip Richardson</td>
<td></td>
<td>'04</td>
<td>610 Main St., Bennington, Vt.</td>
</tr>
<tr>
<td>Whitney, Robert Fletcher, Φ. T. Δ.</td>
<td></td>
<td>'04</td>
<td>1813 13th St., N. W., Wash., D. C.</td>
</tr>
<tr>
<td>Whiton, Harry Augustus</td>
<td></td>
<td>'02</td>
<td>211 Main St., Marlborough, Mass.</td>
</tr>
<tr>
<td>Whittemore, Charles Augustus</td>
<td></td>
<td>'04</td>
<td>134 Chestnut St., Chelsea, Mass.</td>
</tr>
<tr>
<td>Whittet, Rufus Mason</td>
<td></td>
<td>'04</td>
<td>Le Claire, Ia.</td>
</tr>
<tr>
<td>Wight, Roger Willard</td>
<td></td>
<td>'04</td>
<td>85 Howard Ave., Utica, N. Y.</td>
</tr>
<tr>
<td>Wilder, Fred Hall</td>
<td>XIII.</td>
<td>'01</td>
<td>77 Arlington Ave., Providence, R.I.</td>
</tr>
<tr>
<td>Wilder, Lowell Bosworth</td>
<td></td>
<td>'01</td>
<td>Duluth, Minn.</td>
</tr>
<tr>
<td>Wildes, Waldo Gilman</td>
<td>I.</td>
<td>'01</td>
<td>89 Federal St., Salem, Mass.</td>
</tr>
<tr>
<td>Willard, Arthur Cutts</td>
<td>II.</td>
<td>'02</td>
<td>59 Clark Ave., Chelsea, Mass.</td>
</tr>
<tr>
<td>Willard, Charles Franklin</td>
<td></td>
<td>'02</td>
<td>204 N. Blackst. St., Jackson, Mich.</td>
</tr>
<tr>
<td>Willcomb, George Edward</td>
<td></td>
<td>'02</td>
<td></td>
</tr>
<tr>
<td>Williams, Charles Gilbert</td>
<td></td>
<td>'02</td>
<td></td>
</tr>
<tr>
<td>Williams, Clarence Benton, Δ. K. E.</td>
<td></td>
<td>'02</td>
<td></td>
</tr>
<tr>
<td>Williams, Irving</td>
<td></td>
<td>'02</td>
<td></td>
</tr>
<tr>
<td>Williams, Louis Ezra</td>
<td></td>
<td>'02</td>
<td></td>
</tr>
<tr>
<td>Williams, Ralph Brown</td>
<td></td>
<td>'02</td>
<td></td>
</tr>
<tr>
<td>Williams, Robert Longfellow</td>
<td></td>
<td>'02</td>
<td></td>
</tr>
<tr>
<td>Williams, Robert Seaton</td>
<td></td>
<td>'02</td>
<td></td>
</tr>
</tbody>
</table>
Name and Fraternity

Williston, William High
Wilson, Archibald Henry
Wilson, Daniel Scott
Wilson, Frank Stetson
Wilson, George Davis, A.B., Z. A. E.
Wilson, George Truman
Wilson, Louis Gamaliel, A.B., Z. A. E.
Winchester, Henry Thornton, Ph. B. E.
Wing, William Lawton
Winslow, George Carlos, Jr.
Winslow, William James
Wise, Robert Emmet
Wonso, Samuel Lamson, A. B.
Wood, Austin Clarence, Δ. K. E.
Wood, Edwin Thomas
Wood, George Babcock, Δ. K. E.
Wood, Harold Blake
Wood, Howard Irving
Wood, Leonard Percy
Woodsome, James Chadbourne
Worcester, Samuel T.
Wright, Charles Lawrence
Yeaton, Edward Everett
Yerxa, Ralph Benjamin
Yoder, Bartolette Artman

Course  Class  Home Address

II  '02  3 Monmouth St., Somerville, Mass.
II  '01  13 Melvin St., Lawrence, Mass.
S  Concord Junction, Mass.
'04  209 Dudley St., Boston, Mass.
I  '03  318 S. First St., Clarksville, Tenn.
II  '01  Columbia Falls, Me.
S  318 S. First St., Clarksville, Tenn.
S  512 Wash'ton St., Dorch'ter, Mass.
S  34 Purchase St., N. Bedford, Mass.
S  170 Hunt'gon Ave., Boston, Mass.
S  New Bedford, Mass.
'04  South Lancaster, Mass.
I  '01  32 Summer St., Everett, Mass.
IV  '02  7 Florida St., Dorchester, Mass.
'04  67 Esmond St., Dorchester, Mass.
II  '03  7 Florida St., Dorchester, Mass.
V  '01  Rockville, Conn.
I  '01  Brooklyn, N. Y.
VI  '01  120 Cushing Ave., Dorch'ter, Mass.
'04  65 Thomas St., Portland, Maine.
X  '02  16 Tudor St., Lynn, Mass.
'04  102 Hanover St., Lynn, Mass.
'04  614 North 22nd St., Omaha, Neb.

Candidates for Advanced Degrees

Name  Home Address

Ford, George Burdett, A. B., S. B.  304 Church St., Clinton, Mass.
Gardner, Stephen Franklin, S. B.  3 Windsor Road, Som'ville, Mass.
Osgood, Isaac, S. B.  18 Putnam St., W. Newton, Mass.
Price, Paul Leon, Ph.M., S.B.  Winterset, Iowa.
Anderson, Mary Perle, B. S.  Biology
Bailey, Edna Greenwood, '04  Regular
Barrett, Sara E.  Physics, Mathematics
Bates, Sarah Loveland  Chemistry, Language, Mathematics, Political Science
Beckler, Edith Arthur, VII., '02  Regular
Best, Edna May Williston, V., '02  Regular
Blood, Alice Frances, V., '03  Regular
Brown, Martha Brooks  Architecture, Biology, Civil Engineering, Drawing
Codd, Eliza, '04  Regular
Colbath, Laura Anne  Biology, Geology, Chemistry, Physics
Courtney, Angelia Martha  Chemistry
Culver, Llora Robinson, V., '02  Regular
Day, Alice Cora  Biology
Dike, Alice Norton, B. L.  Biology, Chemistry, Physics
Fraser, Linda Susan, '04  Regular
Gallup, Anna Billings, VII., '01  Regular
Gammon, Maud Gertrude  Regular
Gibson, Jessie Gilbert, IV., '03  Biology
Gray, Greta, IV., '01  Regular
Hamlen, Gertrude Loring  Biology
Hill, Beulah Chapin, VIII., '02  Regular
Hobbs, Edith Morrill  Political Science
Hunnewell, Mary Peele  Biology
Kincaide, Martha Christie  Chemistry
Kite, Rebecca  Biology
Lundin, Laura Marie, VIII., '01  Regular
MacLeod, Grace, V., '01  Regular
McCarthy, Alice, '04  Regular

344
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mellyn, Mary Cathrine</td>
<td></td>
<td>Biology</td>
</tr>
<tr>
<td>Parker, Emma Harriet</td>
<td>B. S.</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Patch, Emerette Ophelia</td>
<td></td>
<td>Biology</td>
</tr>
<tr>
<td>Plummer, Laura Susanna</td>
<td></td>
<td>Biology</td>
</tr>
<tr>
<td>Rathbun, Eleanor Packer, VII.'02</td>
<td></td>
<td>Regular</td>
</tr>
<tr>
<td>Ropes, Fanny</td>
<td>'04</td>
<td>Regular</td>
</tr>
<tr>
<td>Schlesinger, Marion McBurney</td>
<td></td>
<td>Biology</td>
</tr>
<tr>
<td>Sephton, Cecilia Hilda</td>
<td>'04</td>
<td>Regular</td>
</tr>
<tr>
<td>Shaw, Susan Welles</td>
<td></td>
<td>Biology</td>
</tr>
<tr>
<td>Stevenson, Lucy Marion, VIII.'03</td>
<td></td>
<td>Regular</td>
</tr>
<tr>
<td>Stoddard, Ava Marcella, IX.'03</td>
<td></td>
<td>Regular</td>
</tr>
<tr>
<td>Stoddard, Edna Dwinell, IV.'03</td>
<td></td>
<td>Regular</td>
</tr>
<tr>
<td>Thayer, Sophie Gifford</td>
<td></td>
<td>Biology</td>
</tr>
<tr>
<td>Towne, Lillian May</td>
<td></td>
<td>Biology</td>
</tr>
<tr>
<td>Weeks, Angelina Louisa, A. B.</td>
<td></td>
<td>Biology</td>
</tr>
<tr>
<td>Weld, Eloise Minot</td>
<td></td>
<td>Drawing</td>
</tr>
<tr>
<td>Weld, Lydia Gould</td>
<td></td>
<td>Applied Mechanics, English, Mathe-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>matics, Mechanical Engineering,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Naval Architecture, Physics, Politi-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>cal Science</td>
</tr>
<tr>
<td>Wetherbee, Florence Louise, '04</td>
<td></td>
<td>Regular</td>
</tr>
<tr>
<td>Williams, Elizabeth Langdon</td>
<td></td>
<td>Chemistry, Language, Mathematics, Physics, Political Science</td>
</tr>
</tbody>
</table>
In Memoriam

* 

Of the Corporation

Augustus Lowell
Died June 22, 1900

John Elbridge Hudson
Died October 1, 1900

Thomas Gaffield
Died December 6, 1900

* 

Students

Harold Stephen Currier
Died May 16, 1900

Hugh Chadwick Moore
Died November 15, 1900

346
Hugh Chadwick Moore*

Born November 20, 1881
Died November 15, 1900

TECHNIQUE, while it aims to reflect faithfully the life of the Institute, shows generally the bright side of it. There are shadows as we all know in the student life, but these usually are fleeting and touch at most the lives of one or two. The year now passing brought with it an incident so pathetic that its sadness touched all our lives, and its remembrance will always remain with those who taught, and with those who studied, in the Institute of Technology in November, 1900.

Hugh Chadwick Moore came to Technology in September last from his home in Rochester. He was a manly, earnest fellow, ready for work and interested in all athletic sports. He entered with great zest into the annual contest between the Sophomore and Freshman Classes, and was an enthusiastic member of his class in the annual Cane Rush. In the struggle which this contest brought about, and under the sudden strain precipitated by those about him, he met an almost instantaneous death.

His body was taken to the house of President Pritchett, and there lay, in the keeping of his classmates, until his father came to claim it; and then it was borne, followed by a long procession of his comrades to the train which bore him back to Rochester, to his home, and to his grave.

Probably no event in all the history of the Institute has so moved the whole student body, partly by reason of the

*This article was voluntarily written by President Pritchett.
sudden and pathetic ending of a strong and promising life, and partly by the criticism from those who knew but little of the facts and which brought the students and Faculty to stand together in the presence of a common responsibility. There has probably never been a gathering of the students of the Institute like that which took place in Huntington Hall, the day after the sad event. And there have been few scenes of late years in this city more impressive than that procession of silent students which followed Hugh Moore’s body past the Institute buildings to the railroad station, and which stood with bared heads while his coffin was borne from them into the darkness. The two scenes bore silent but eloquent witness to the sense of a common humanity and of a common brotherhood.

In the storm of criticism which this accident provoked, Hugh Moore was spoken of as one whose life had been thrown away. Notwithstanding the infinite respect which all must feel, we cannot believe that this is true. Out of his death has already come serious and manly thinking, which is preparing the way for manly and thoughtful actions. His death has not been in vain, and when the Walker Memorial building rises to become the centre of a rational and helpful athletic life in the Institute, then may well be found on its walls, place for a short inscription to Hugh Chadwick Moore—student of Technology—one whose life was short, but manly and simple, and who, in his death, drew the hearts of all his comrades to him.
<p>| Acknowledgments                           | 355 |
| Administrative Officers                  | 10  |
| Advertisements                           | 1   |
| Alphabet                                 | 253 |
| Alumni Associations                      | 221 |
| Andover Club                             | 182 |
| Architectural Society                    | 171 |
| Assistants                               | 38  |
| Athletic Advisory Council                | 125 |
| Athletic Association, M. I. T.           | 126 |
| Athletics at Technology                  | 124 |
| Athletic Meets and Games: —              |     |
| Annual Cross-country Run                 | 141 |
| Annual Fall Handicap Games               | 139 |
| Annual Indoor Games                      | 140 |
| Annual Spring Games                      | 138 |
| Dual Meet                                | 132 |
| N. E. I. A. A.                           | 130 |
| Athletics                                | 123 |
| Banjo Club                               | 207 |
| Basket Ball Team, M. I. T.               | 167 |
| Bequests                                 | 307 |
| Buyers' Guide                            | 269 |
| Cadets, M. I. T.                         | 219 |
| Calendar                                 | 6   |
| Cane Rush                                | 153 |
| Cane Spree                               | 153 |
| Champion Track Team                      | 137 |
| Chauncy-Hall Club                        | 188 |
| Chess Club                               | 187 |
| Chicago Club                             | 183 |
| Civil Engineering Society                | 173 |
| Class Championship Cup                   | 134 |</p>
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Day, 1900</td>
<td>238</td>
</tr>
<tr>
<td>Classes, The</td>
<td>59</td>
</tr>
<tr>
<td>The Senior</td>
<td>60</td>
</tr>
<tr>
<td>The Junior</td>
<td>68</td>
</tr>
<tr>
<td>The Sophomore</td>
<td>78</td>
</tr>
<tr>
<td>The Freshman</td>
<td>86</td>
</tr>
<tr>
<td>Class Histories:</td>
<td></td>
</tr>
<tr>
<td>Senior</td>
<td>62</td>
</tr>
<tr>
<td>Junior</td>
<td>72</td>
</tr>
<tr>
<td>Sophomore</td>
<td>80</td>
</tr>
<tr>
<td>Freshman</td>
<td>88</td>
</tr>
<tr>
<td>Cleofan, The</td>
<td>186</td>
</tr>
<tr>
<td>Clubs</td>
<td>181</td>
</tr>
<tr>
<td>College Statistics</td>
<td>310</td>
</tr>
<tr>
<td>Concerning the Institute</td>
<td>306</td>
</tr>
<tr>
<td>Co-operative Society</td>
<td>218</td>
</tr>
<tr>
<td>Corporation, The</td>
<td>9</td>
</tr>
<tr>
<td>Courses, The</td>
<td>2</td>
</tr>
<tr>
<td>Dedication</td>
<td>227</td>
</tr>
<tr>
<td>Dinners</td>
<td></td>
</tr>
<tr>
<td>Senior</td>
<td>231</td>
</tr>
<tr>
<td>Junior</td>
<td>228</td>
</tr>
<tr>
<td>Sophomore</td>
<td>229</td>
</tr>
<tr>
<td>Freshman</td>
<td>230</td>
</tr>
<tr>
<td>Freshman</td>
<td>231</td>
</tr>
<tr>
<td>Distribution of Students</td>
<td>304</td>
</tr>
<tr>
<td>Dual Team</td>
<td>133</td>
</tr>
<tr>
<td>Electrical Engineering Society</td>
<td>175</td>
</tr>
<tr>
<td>Faculty, The</td>
<td>42</td>
</tr>
<tr>
<td>Finis</td>
<td>268</td>
</tr>
<tr>
<td>Football Association</td>
<td>148</td>
</tr>
<tr>
<td>Fraternities</td>
<td></td>
</tr>
<tr>
<td>Chi Phi</td>
<td>95</td>
</tr>
<tr>
<td>Delta Kappa Epsilon</td>
<td>101</td>
</tr>
<tr>
<td>Delta Psi</td>
<td>103</td>
</tr>
<tr>
<td>Delta Upsilon</td>
<td>99</td>
</tr>
<tr>
<td>Phi Beta Epsilon</td>
<td>107</td>
</tr>
<tr>
<td>Phi Gamma Delta</td>
<td>105</td>
</tr>
<tr>
<td>Sigma Alpha Epsilon</td>
<td>111</td>
</tr>
<tr>
<td>Sigma Chi</td>
<td>109</td>
</tr>
<tr>
<td>Theta Xi</td>
<td>97</td>
</tr>
<tr>
<td>Others represented</td>
<td>113</td>
</tr>
<tr>
<td>Fraternity Summary</td>
<td>115</td>
</tr>
<tr>
<td>Gesellschaft, Die</td>
<td>189</td>
</tr>
<tr>
<td>Glee Club, The</td>
<td>203</td>
</tr>
<tr>
<td>Graduate Class Secretaries</td>
<td>224</td>
</tr>
<tr>
<td>Graduates by Courses, Summary of</td>
<td>303</td>
</tr>
<tr>
<td>Graduation Exercises</td>
<td>239</td>
</tr>
<tr>
<td>Graduation Week, Events of, Class of Nineteen Hundred</td>
<td>237</td>
</tr>
<tr>
<td>Section</td>
<td>Page</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Greeting</td>
<td>5</td>
</tr>
<tr>
<td>Grinds</td>
<td>283</td>
</tr>
<tr>
<td>Hammer and Tongs</td>
<td>119</td>
</tr>
<tr>
<td>Handicap Games, M. I. T. A. A.</td>
<td>119</td>
</tr>
<tr>
<td>Hare and Hounds Club</td>
<td>164</td>
</tr>
<tr>
<td>Historical Sketch of the Institute of Technology</td>
<td>269</td>
</tr>
<tr>
<td>Henry Smith Pritchett</td>
<td>43</td>
</tr>
<tr>
<td>Hockey Club, M. I. T.</td>
<td>165</td>
</tr>
<tr>
<td>In Memoriam</td>
<td>346</td>
</tr>
<tr>
<td>Institute Committee</td>
<td>211</td>
</tr>
<tr>
<td>Instructors</td>
<td>34</td>
</tr>
<tr>
<td>Instructor in Gymnastics</td>
<td>39</td>
</tr>
<tr>
<td>Instructors and Assistants in Mechanic Arts</td>
<td>39</td>
</tr>
<tr>
<td>Junior Class, Picture of</td>
<td>70</td>
</tr>
<tr>
<td>Junior Promenade, Class of 1901</td>
<td>234</td>
</tr>
<tr>
<td>Junior Promenade, Class of 1902</td>
<td>235</td>
</tr>
<tr>
<td>Junior Week, Class of 1901</td>
<td>232</td>
</tr>
<tr>
<td>Junior Week, Class of 1902</td>
<td>233</td>
</tr>
<tr>
<td>Key to Picture of Junior Class</td>
<td>71</td>
</tr>
<tr>
<td>L'Avenir</td>
<td>190</td>
</tr>
<tr>
<td>List of Students</td>
<td>317</td>
</tr>
<tr>
<td>Local Societies</td>
<td>117</td>
</tr>
<tr>
<td>Hammer and Tongs</td>
<td>119</td>
</tr>
<tr>
<td>K2 S</td>
<td>118</td>
</tr>
<tr>
<td>Mandaman Club</td>
<td>121</td>
</tr>
<tr>
<td>Round Table</td>
<td>122</td>
</tr>
<tr>
<td>Sherwood Club</td>
<td>120</td>
</tr>
<tr>
<td>Mandolin Club</td>
<td>205</td>
</tr>
<tr>
<td>M. I. T. Paris Exhibition</td>
<td>249</td>
</tr>
<tr>
<td>Mining Engineering Society</td>
<td>176</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>209</td>
</tr>
<tr>
<td>Musical Clubs</td>
<td>201</td>
</tr>
<tr>
<td>Banjo Club</td>
<td>207</td>
</tr>
<tr>
<td>Glee Club</td>
<td>203</td>
</tr>
<tr>
<td>Mandolin Club</td>
<td>205</td>
</tr>
<tr>
<td>M. I. T. Glee, Banjo and Mandolin Clubs</td>
<td>208</td>
</tr>
<tr>
<td>Naval Architectural Society</td>
<td>178</td>
</tr>
<tr>
<td>New England Intercollegiate Athletic Association</td>
<td>127</td>
</tr>
<tr>
<td>New England Intercollegiate Lawn Tennis Association</td>
<td>162</td>
</tr>
<tr>
<td>Nineteen Hundred and Two Baseball Team</td>
<td>159</td>
</tr>
<tr>
<td>Nineteen Hundred and Three Football Team</td>
<td>155</td>
</tr>
<tr>
<td>Nineteen Hundred and Three Baseball Team</td>
<td>161</td>
</tr>
<tr>
<td>Nineteen Hundred and Four Football Team</td>
<td>137</td>
</tr>
<tr>
<td>Officers of Instruction</td>
<td>11</td>
</tr>
<tr>
<td>Professional Societies</td>
<td>169</td>
</tr>
<tr>
<td>Professors</td>
<td>12</td>
</tr>
<tr>
<td>Professors' Dinner</td>
<td>281</td>
</tr>
<tr>
<td>Quotations</td>
<td>261</td>
</tr>
</tbody>
</table>

352
<table>
<thead>
<tr>
<th>RECORDS</th>
<th>( 145 )</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPUBLICAN CLUB, M. I. T.</td>
<td>( 220 )</td>
</tr>
<tr>
<td>SENIOR PORTFOLIO</td>
<td>( 200 )</td>
</tr>
<tr>
<td>SOCIETY OF ARTS</td>
<td>( 179 )</td>
</tr>
<tr>
<td>SOUTHERN CLUB</td>
<td>( 184 )</td>
</tr>
<tr>
<td>SPECIAL EVENTS AT M. I. T.</td>
<td>( 147 )</td>
</tr>
<tr>
<td>SPINOZA</td>
<td>( 180 )</td>
</tr>
<tr>
<td>STATISTICS</td>
<td>( 301 )</td>
</tr>
<tr>
<td>SUMMARY OF POINTS FOR CLASS CHAMPIONSHIP</td>
<td>( 142 )</td>
</tr>
<tr>
<td>SUMMARY OF POINTS FOR INDIVIDUAL EXCELLENCE</td>
<td>( 143 )</td>
</tr>
<tr>
<td>SUMMARY OF POINTS FOR N. E. I. A. A. MEET</td>
<td>( 131 )</td>
</tr>
<tr>
<td>SUMMER SCHOOLS: —</td>
<td>( 241 )</td>
</tr>
<tr>
<td>Architecture</td>
<td>( 242 )</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>( 244 )</td>
</tr>
<tr>
<td>Mining Engineering</td>
<td>( 247 )</td>
</tr>
<tr>
<td>TEACHERS AND LECTURERS FOR YEAR 1900—1901</td>
<td>( 40 )</td>
</tr>
<tr>
<td>Technique Board of Editors</td>
<td>( 197 )</td>
</tr>
<tr>
<td>Technique, History of</td>
<td>( 193 )</td>
</tr>
<tr>
<td>Technique Electoral Committee</td>
<td>( 213 )</td>
</tr>
<tr>
<td>Technology Alumni Associations</td>
<td>( 221 )</td>
</tr>
<tr>
<td>Technology Athletic Association</td>
<td>( 126 )</td>
</tr>
<tr>
<td>Technology Club</td>
<td>( 214 )</td>
</tr>
<tr>
<td>Technology Football Team</td>
<td>( 151 )</td>
</tr>
<tr>
<td>Schedule of Games</td>
<td>( 152 )</td>
</tr>
<tr>
<td>Technology Football Teams, Captains and Managers of</td>
<td>( 149 )</td>
</tr>
<tr>
<td>Technology Publications</td>
<td>( 191 )</td>
</tr>
<tr>
<td>Technology Quarterly</td>
<td>( 198 )</td>
</tr>
<tr>
<td>Technology Track Team</td>
<td>( 129 )</td>
</tr>
<tr>
<td>Technology Track Teams, Captains and Managers of</td>
<td>( 144 )</td>
</tr>
<tr>
<td>Tennis Association</td>
<td>( 163 )</td>
</tr>
<tr>
<td>The Tech Board of Editors</td>
<td>( 195 )</td>
</tr>
<tr>
<td>The Tech, History of</td>
<td>( 192 )</td>
</tr>
<tr>
<td>The Technology Review</td>
<td>( 199 )</td>
</tr>
<tr>
<td>To Walker Building</td>
<td>( 260 )</td>
</tr>
<tr>
<td>Verse</td>
<td>( 275 )</td>
</tr>
<tr>
<td>Walker Club</td>
<td>( 185 )</td>
</tr>
<tr>
<td>Walker Club Play</td>
<td>( 236 )</td>
</tr>
<tr>
<td>Years Ago</td>
<td>( 168 )</td>
</tr>
<tr>
<td>Young Men's Christian Association</td>
<td>( 216 )</td>
</tr>
<tr>
<td>Young Women at the Institute</td>
<td>( 344 )</td>
</tr>
</tbody>
</table>
THE END
Acknowledgments

The Board of Editors of Technique, 1902, wishes to make known its indebtedness to the following for their efforts in its behalf:

In General: The Members of the Faculty, President Pritchett, A. M. Knight, Dr. H. W. Tyler, H. K. Burrison, W. Humphreys, A. Le F. Derby, Mrs. King, C. L. B. Anderson, C. R. Place, J. T. Scully, Jr.


The Board is especially indebted to Messrs. E. H. Davis, E. B. Bird, and I. B. Hazleton.
CETYLENE GAS GENERATORS — J. B. Colt Co., Boston.

AIR COMPRESSORS — Rand Drill Co., New York City; Norwalk Iron Works Co., South Norwalk, Conn.

ALKALI — Solvay Process Co., Syracuse, N.Y.


BATTERIES — Leclanche Battery Co., New York City; New Excelsior Dry Battery Co., New York City.

BELTING — Bay State Belting Co., Boston; S. Kidder, Boston; Jewell Belting Co., Hartford, Conn.; Schultz Belting Co., St. Louis, Mo.

BILLIARD AND POOL TABLES — E. T. Burrowes Co., Portland, Me.

BLEACHED AND ABSORBENT COTTONS — Oakdale Mills, Montville, Conn.

BLOCKS — Boston & Lockport Block Co., Boston.


BOILERS — Abendroth & Root Mfg. Co., New York City; Atlantic Works, East Boston; The Aultman & Taylor Machinery Co., Mansfield, O.; Charles River

BOILER CLEANERS — Hornish Mechanical Boiler Cleaner Co., Chicago, Ill.

BOILER WATER PURIFICATION — Industrial Water Co., New York City.


BOOK BINDERS — Alex. Moore, Boston; Ulrich Holzer, Boston; H. M. Plimpton & Co., Boston.

BUILDERS' IRON WORK — Smith & Lovett Co., Boston.

CAFES — Oak Grove Creamery Co., Boston; Royal Dairy Lunch, Boston.


CASE HARDENING — American Carburizing Co., New York City.


CHEMICAL APPARATUS — Eimer & Amend, New York City; Franklin Laboratory Supply Co., Boston.

CHUCKS — The Cushman Chuck Co., Hartford, Conn.

CLOTHING — Brooks Bros., New York City; Geo. H. Lane, Boston.

COAL HANDLING MACHINERY — (See Conveying Machinery)

COAL AND WOOD — Chapin Coal Co., Boston.


CONDUITS AND CABLES — National Conduit & Cable Co., New York City.


CORDAGE — Samson Cordage Works, Boston.

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


CROSS ARMS — Central Mfg. Co., Chattanooga, Tenn.

DECORATORS — Cytus T. Clark Co., Boston.

DESK APPOINTMENTS — Hurd & Co., New York City.


DRUG STORES — John Ferrin, Boston; C. J. Countie & Co., Boston.

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


EDUCATIONAL INSTITUTIONS — Mass. Institute of Technology, Boston.

ELECTRICAL ENGINEERS — Miner Robinson, Boston; Crocker, Wheeler Co., Ampere, N. J.; Stone & Webster, Boston.


Electrical Supplies — Central Electric Co., Chicago; Pettingell Andrews Co., Boston; Simplex Electrical Co., Boston; Weston Electrical Instrument Co., Newark, N. J.

Emery Wheels — American Emery Wheel Works, Providence, R. I.


Engravers — Suffolk Engraving and Electrotyping Co., Boston.


Felts (Rubbing, Shoe Buffering, Marble and Granite, Cutlers and Jewelers'); Eastern Felt and Buffering Wheel Co., Boston.

Felt Polishing Wheels — Eastern Felt and Buffering Co., Boston.


Florist — Albert Scott, Boston.


Furnishing Goods — Brooks Bros., New York City; Hall & Hancock, Boston; Hewins & Hollis, Boston; Blanchard, King & Co., Boston; Continental Clothing Co., Boston.


Gas Compressors — Norwalk Iron Works Co., South Norwalk, Conn.


Golf Balls — Davidson Rubber Co., Boston.

Granite — Bay State Steam Face Granite Co., Boston.

Gymnastic Clubs — The Hercules Club Co., Boston.

Hardware — Burditt & Williams, Boston; Dodge, Haley & Co., Boston; J. B. Hunter & Co., Boston; Chandler & Barber, Boston; Bay State Hardware Co., Boston.

Harness and Sweat Pads — Eastern Felt and Buffering Wheel Co., Boston.

Hats — (See Furnishing Goods)


Hotels — Berkeley Hotel, Boston; Brunswick Hotel, Boston; Parker House, Boston; Tournaine Hotel, Boston; Young's Hotel, Boston.


Ice Cream — Oak Grove Creamery Co., Boston.


Inspirators — The Hancock Inspirator Co., New York City.

Jacks — A. O. Norton, Boston.


BENT PIPES REDUCE FRICTION, SAVE JOINTS, AND PROVIDE FOR EXPANSION AND CONTRACTION.

HIGH PRESSURE VALVES, PIPE AND FITTINGS.

VAN STONE JOINTS (WILL NOT WEEP UNDER 250 LBS.).

GENERAL OFFICES,
132 FEDERAL ST., BOSTON.

NEW YORK OFFICE,
PARK ROW BUILDING.
LABORATORY SUPPLIES — Franklin Laboratory Supply Co., Boston.

LACTIC ACID — Avery Chemical Co., Boston; Gilbert Bros. & Co., Boston.

LATHES — (See Machine Shop Equipment)


MACHINE TOOLS — (See Machine Shop Equipment)


METALS — Mowry & Phillips, Boston; Phosphor Bronze Smelting Co., Philadelphia; Paul S. Reeves & Son, Philadelphia.

MILL SUPPLIES — Braman, Dow & Co., Boston.

MINING MACHINERY — Rand Drill Co., New York City.


MONUMENTS — J. W. Goodell, Burlington, Vt.

OPTICIANS — A. J. Lloyd & Co., Boston; Pinkham & Smith, Boston.


PATENT ATTORNEYS — F. W. Barnacle, Baltimore, Md.; Henry W. Williams, Boston.


PENCILS — Jos. Dixon Crucible Co., Jersey City, N. J.

PHOTOGRAPHERS — J. E. Purdy & Co., Boston; Notman Photographic Co., Boston; Chas. W. Hearn, Boston; Chas. A. Hoyle, Boston; Elmer Chickering, Boston.

PHOTOGRAPHIC MOUNTS — W. H. Lawrence, Boston; Solatia M. Taylor, Boston.

PINS (Oak and Locust) — Central Mfg. Co., Chattanooga, Tenn.


PIPE COVERING — Manville Covering Co., Providence, R I.


PRINTER — The Heintzemann Press, Boston.

PUBLICATIONS — The Technology Review, Boston.

PUMPS — Frenier & Son, Rutland, Vt.; A. S. Cameron Steam Pump Works, New York City.

RAILROAD TRACK EQUIPMENT — Ramapo Iron Works, Hillburn, N. Y.


RECREATION GROUNDS — Riverside Recreation Grounds, Riverside, Mass.

ROOFING TILE — Ludowici Roofing Tile Co., Chicago.

RUBBER GOODS — Franklin Rubber Co., Boston.


SCIENTIFIC APPARATUS — Ziegler Electric Co., Boston.

SHIPBUILDERS — Fore River Ship & Engine Co., Quincy, Mass.

SHOES — Newman the Shoeman, Boston.


SPINNING RINGS — Whitinsville Spinning Ring Co., Whitinsville, Mass.

STAINS — Samuel Cabot, Boston; Bridgeport Wood Finishing Co., New Milford, Conn.


STEAM TRAPS — Brainerd Steam Trap Co., Boston; Julian D’Este Co., Boston.


TAILORS — Brooks Bros., New York City; Continental Clothing Co., Boston.

TECH EMBLEMS — Bent & Bush, Boston.


TOWELS — N. E. Towel Supply Co., Boston.


TYPEWRITERS — The Typewriter Exchange, Boston.


VENTILATING — (See Heating & Ventilating)


WIRE LATH — The Roebling Construction Co., Boston.

WIRE ROPE — Broderick & Bascom Rope Co., St. Louis, Mo.; A. Leschen & Sons Rope Co., St. Louis, Mo.

WOOD FILLER — The Bridgeport Wood Finishing Co., New Milford, Conn.


WOOL WADDINGS — Eastern Felt & Buffing Wheel Co., Boston.
Keystone Grease

THE PUREST and THE BEST

Therefore the Cheapest Lubricating Substance known in the mechanical world.

Do not condemn KEYSTONE GREASE because you have tried other greases and found them unsatisfactory.

The best testimonial we can give for KEYSTONE GREASE is the results you will obtain from it.

You don’t pay for KEYSTONE until It has proven itself satisfactory.

SEND FOR SMALL PACKAGE ON APPROVAL NOT FOR SALE BY JOBBERS COPPS FREE

KEYSTONE LUBRICATING CO.

20th and ALLEGHENY AVENUE, PHILADELPHIA
# Alphabetical List of Advertisers

<table>
<thead>
<tr>
<th>Advertiser Company Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abendroth &amp; Root Mfg. Co.</td>
<td>20</td>
</tr>
<tr>
<td>Adams, A. S.</td>
<td>76</td>
</tr>
<tr>
<td>American Balance Valve Co.</td>
<td>54</td>
</tr>
<tr>
<td>American Carburizing Co.</td>
<td>32</td>
</tr>
<tr>
<td>American Circular Loom Co.</td>
<td>---</td>
</tr>
<tr>
<td>American Emery Wheel Works</td>
<td>---</td>
</tr>
<tr>
<td>American Gas Furnace Co.</td>
<td>46</td>
</tr>
<tr>
<td>American Sheet Steel Co.</td>
<td>43</td>
</tr>
<tr>
<td>American Steam Gauge Co.</td>
<td>23</td>
</tr>
<tr>
<td>American Tool &amp; Machine Co.</td>
<td>92</td>
</tr>
<tr>
<td>Anderson, G. P.</td>
<td>34</td>
</tr>
<tr>
<td>Armstrong Bros. Tool Co.</td>
<td>36</td>
</tr>
<tr>
<td>Ashcroft Mfg. Co.</td>
<td>27</td>
</tr>
<tr>
<td>Ashton Valve Co.</td>
<td>99</td>
</tr>
<tr>
<td>Asphalt Rubber Paint Co.</td>
<td>71</td>
</tr>
<tr>
<td>Atlantic Works</td>
<td>78</td>
</tr>
<tr>
<td>F. E. Atteaux &amp; Co.</td>
<td>---</td>
</tr>
<tr>
<td>Aultman &amp; Taylor Machinery Co.</td>
<td>51</td>
</tr>
<tr>
<td>Avery Chemical Co.</td>
<td>10</td>
</tr>
<tr>
<td>Baeder, Adamson &amp; Co.</td>
<td>93</td>
</tr>
<tr>
<td>Baker &amp; Adamson Chemical Co.</td>
<td>24</td>
</tr>
<tr>
<td>Baldwin Locomotive Works</td>
<td>47</td>
</tr>
<tr>
<td>Barbour, Stockwell Co.</td>
<td>69</td>
</tr>
<tr>
<td>Barnaclo, F. W.</td>
<td>56</td>
</tr>
<tr>
<td>Barry, F. W., Beale &amp; Co.</td>
<td>58</td>
</tr>
<tr>
<td>Bay State Belting Co.</td>
<td>84</td>
</tr>
<tr>
<td>Bay State Hdw. Co.</td>
<td>98</td>
</tr>
<tr>
<td>Bay State Seam Face Granite Co.</td>
<td>86</td>
</tr>
<tr>
<td>Bent &amp; Bush</td>
<td>88</td>
</tr>
<tr>
<td>Belknap Motor Co.</td>
<td>56</td>
</tr>
<tr>
<td>Berkeley Hotel</td>
<td>76</td>
</tr>
<tr>
<td>Berlin Mills Co.</td>
<td>15</td>
</tr>
<tr>
<td>Berger, C. L. &amp; Sons.</td>
<td>97</td>
</tr>
<tr>
<td>Bishop, J., &amp; Co.</td>
<td>44</td>
</tr>
<tr>
<td>Blanchard, King &amp; Co.</td>
<td>38</td>
</tr>
<tr>
<td>Blount, Lovett &amp; Co.</td>
<td>64</td>
</tr>
<tr>
<td>Borgner, Cyrus &amp; Co.</td>
<td>87</td>
</tr>
<tr>
<td>Boston &amp; Albany R. R.</td>
<td>24</td>
</tr>
<tr>
<td>Boston &amp; Lockport Block Co.</td>
<td>90</td>
</tr>
<tr>
<td>Boston &amp; Maine R. R.</td>
<td>24</td>
</tr>
<tr>
<td>Brainerd Steam Trap Co.</td>
<td>86</td>
</tr>
<tr>
<td>Braman, Dow &amp; Co.</td>
<td>40</td>
</tr>
<tr>
<td>Bridgeport Wood Finishing Co.</td>
<td>12</td>
</tr>
<tr>
<td>Broderick &amp; Bascom Rope Co.</td>
<td>39</td>
</tr>
<tr>
<td>Brody, E. J. &amp; Co.</td>
<td>33</td>
</tr>
<tr>
<td>Brooks Bros.</td>
<td>9</td>
</tr>
<tr>
<td>Brunswick Hotel</td>
<td>76</td>
</tr>
<tr>
<td>Buffalo Bolt Co.</td>
<td>14</td>
</tr>
<tr>
<td>Buff &amp; Buff Mfg. Co.</td>
<td>98</td>
</tr>
<tr>
<td>Burditt &amp; Williams</td>
<td>93</td>
</tr>
<tr>
<td>Burrowes, E. T., Co.</td>
<td>100</td>
</tr>
<tr>
<td>Cabot, Samuel</td>
<td>32</td>
</tr>
<tr>
<td>Caldwell, W. E., Co.</td>
<td>---</td>
</tr>
<tr>
<td>Cameron, A. S., Steam Pump Works</td>
<td>65</td>
</tr>
<tr>
<td>Carter, H. H.</td>
<td>74</td>
</tr>
<tr>
<td>Central Electric Co.</td>
<td>56</td>
</tr>
<tr>
<td>Central Mfg. Co.</td>
<td>82</td>
</tr>
<tr>
<td>Chandler &amp; Barber</td>
<td>40</td>
</tr>
<tr>
<td>Chandler &amp; Farquhar</td>
<td>60</td>
</tr>
<tr>
<td>Chapin Coal Co.</td>
<td>33</td>
</tr>
<tr>
<td>Charles River Iron Works</td>
<td>14</td>
</tr>
<tr>
<td>Chicago &amp; Alton R. R.</td>
<td>50</td>
</tr>
<tr>
<td>Chickerling, Elmer</td>
<td>72</td>
</tr>
<tr>
<td>Clark, Cyrus T., Co.</td>
<td>93</td>
</tr>
<tr>
<td>Clark, W. J. &amp; Co.</td>
<td>84</td>
</tr>
<tr>
<td>Cochrane Chemical Co.</td>
<td>68</td>
</tr>
<tr>
<td>Colt, J. B., Co.</td>
<td>90</td>
</tr>
<tr>
<td>Condit, S. B. Jr., &amp; Co.</td>
<td>66</td>
</tr>
<tr>
<td>Consolidated Railway Electric Light and Equipment Co.</td>
<td>16</td>
</tr>
<tr>
<td>Consolidated Safety Valve Co.</td>
<td>27</td>
</tr>
<tr>
<td>Continental Clothing House</td>
<td>80</td>
</tr>
<tr>
<td>Countie, C. J., Co.</td>
<td>72</td>
</tr>
<tr>
<td>Cushman Chuck Co.</td>
<td>32</td>
</tr>
<tr>
<td>Crocker-Wheeler Company</td>
<td>39</td>
</tr>
<tr>
<td>Damon Safe &amp; Iron Works</td>
<td>100</td>
</tr>
<tr>
<td>Damrell &amp; Upham</td>
<td>50</td>
</tr>
<tr>
<td>Davidson Rubber Co.</td>
<td>72</td>
</tr>
<tr>
<td>d'Este, Julian, Co.</td>
<td>79</td>
</tr>
<tr>
<td>Dixon, Joseph, Crucible Co.</td>
<td>52</td>
</tr>
<tr>
<td>Dobbins Soap Mfg. Co.</td>
<td>48</td>
</tr>
<tr>
<td>Dodge, Haley &amp; Co.</td>
<td>74</td>
</tr>
<tr>
<td>Dodge Mfg. Co.</td>
<td>89</td>
</tr>
<tr>
<td>Eastern Felt &amp; Buffing Wheel Co.</td>
<td>64</td>
</tr>
<tr>
<td>Eimer &amp; Amend</td>
<td>84</td>
</tr>
<tr>
<td>Employers' Liability Assurance Corp.</td>
<td>70</td>
</tr>
<tr>
<td>Evans, F. H.</td>
<td>74</td>
</tr>
<tr>
<td>Evens &amp; Howard Fire Brick Co.</td>
<td>94</td>
</tr>
</tbody>
</table>

363
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Felton, Sibley &amp; Co.</td>
<td>75</td>
</tr>
<tr>
<td>Ferrin, John</td>
<td></td>
</tr>
<tr>
<td>Fore River Ship &amp; Engine Co.</td>
<td></td>
</tr>
<tr>
<td>Fort Wayne Electric Works</td>
<td></td>
</tr>
<tr>
<td>Franklin, Albert B.</td>
<td>45</td>
</tr>
<tr>
<td>Franklin Lab. Supply Co.</td>
<td>86</td>
</tr>
<tr>
<td>Franklin Rubber Co.</td>
<td></td>
</tr>
<tr>
<td>Frenier &amp; Son</td>
<td></td>
</tr>
<tr>
<td>Gale, Geo. W., Lumber Co.</td>
<td></td>
</tr>
<tr>
<td>Gardner Knapp &amp; Co.</td>
<td></td>
</tr>
<tr>
<td>Garlock Packing Co.</td>
<td></td>
</tr>
<tr>
<td>Gilbert Bros. &amp; Co.</td>
<td></td>
</tr>
<tr>
<td>Goodell, J. W.</td>
<td></td>
</tr>
<tr>
<td>Gould &amp; Eberhardt</td>
<td></td>
</tr>
<tr>
<td>Granger Foundry &amp; Machine Co.</td>
<td></td>
</tr>
<tr>
<td>Green Fuel Economizer Co.</td>
<td></td>
</tr>
<tr>
<td>Guild, Henry, &amp; Son</td>
<td></td>
</tr>
<tr>
<td>Hall &amp; Hancock</td>
<td></td>
</tr>
<tr>
<td>Hancock Inspirator Co.</td>
<td></td>
</tr>
<tr>
<td>Hartford Steam Boiler Ins. &amp; Ins. Co.</td>
<td>44</td>
</tr>
<tr>
<td>Hayden &amp; Derby Mfg. Co.</td>
<td>27</td>
</tr>
<tr>
<td>Hearn, Chas. W.</td>
<td>29</td>
</tr>
<tr>
<td>Heintzemann Press</td>
<td>95</td>
</tr>
<tr>
<td>Hercules Club Co.</td>
<td>96</td>
</tr>
<tr>
<td>Hewins &amp; Hollis</td>
<td>49</td>
</tr>
<tr>
<td>Holbrook, Cabot &amp; Daly</td>
<td>60</td>
</tr>
<tr>
<td>Holtzer-Cabot Electric Co.</td>
<td>85</td>
</tr>
<tr>
<td>Holzer, Ulrich</td>
<td>74</td>
</tr>
<tr>
<td>Hornish Mech. Boiler Cleaning Co.</td>
<td>35</td>
</tr>
<tr>
<td>Hovey, C. F. &amp; Co.</td>
<td>28</td>
</tr>
<tr>
<td>Hoyle, Charles A.</td>
<td>28</td>
</tr>
<tr>
<td>Hoyt, Geo. T. &amp; Co.</td>
<td>65</td>
</tr>
<tr>
<td>Huey Bros.</td>
<td>99</td>
</tr>
<tr>
<td>Hunter, James, Machine Co.</td>
<td>44</td>
</tr>
<tr>
<td>Hunter, J. B. &amp; Co.</td>
<td>30</td>
</tr>
<tr>
<td>Hurd &amp; Co.</td>
<td>80</td>
</tr>
<tr>
<td>Industrial Water Co.</td>
<td>62</td>
</tr>
<tr>
<td>Ingalls &amp; Kendrickien</td>
<td>92</td>
</tr>
<tr>
<td>Iseele, A. W. &amp; Son</td>
<td>98</td>
</tr>
<tr>
<td>Jeffrey Mfg. Co.</td>
<td>40</td>
</tr>
<tr>
<td>Jenkins Bros.</td>
<td>22</td>
</tr>
<tr>
<td>Jessop, Wm. &amp; Sons, Ltd.</td>
<td>86</td>
</tr>
<tr>
<td>Jewel Belting Co.</td>
<td>23</td>
</tr>
<tr>
<td>Jones, E. D. &amp; Sons Co.</td>
<td></td>
</tr>
<tr>
<td>Jones &amp; Lamson Machine Co.</td>
<td>19</td>
</tr>
<tr>
<td>Kalle &amp; Co.</td>
<td>82</td>
</tr>
<tr>
<td>Keystone Lubricating Co.</td>
<td></td>
</tr>
<tr>
<td>Kidder, Sam'l</td>
<td>99</td>
</tr>
<tr>
<td>Koechl, Victor &amp; Co.</td>
<td>10</td>
</tr>
<tr>
<td>Kuttroff, Pickhardt &amp; Co.</td>
<td>57</td>
</tr>
<tr>
<td>Lawrence, W. H.</td>
<td>94</td>
</tr>
<tr>
<td>Leclanche Battery Co.</td>
<td>24</td>
</tr>
<tr>
<td>Leffel, James &amp; Co., Springfield, O.</td>
<td>26</td>
</tr>
<tr>
<td>Leonard &amp; Ellis</td>
<td>12</td>
</tr>
<tr>
<td>Leschen, A. &amp; Sons, Rope Co.</td>
<td>91</td>
</tr>
<tr>
<td>Lidgerwood Mfg. Co.</td>
<td>47</td>
</tr>
<tr>
<td>Lloyd, A. J. &amp; Co.</td>
<td>74</td>
</tr>
<tr>
<td>Lombard Iron Works &amp; Supply Co.</td>
<td>32</td>
</tr>
<tr>
<td>Ludowici Roofing Tile Co.</td>
<td>87</td>
</tr>
<tr>
<td>Lufkin Rule Co.</td>
<td>62</td>
</tr>
<tr>
<td>Mac Askill &amp; Co.</td>
<td>98</td>
</tr>
<tr>
<td>Maclachlan, A. D.</td>
<td>30</td>
</tr>
<tr>
<td>Malthy Lumber Co.</td>
<td>42</td>
</tr>
<tr>
<td>Manning, Maxwell &amp; Moore</td>
<td>27</td>
</tr>
<tr>
<td>Manville Covering Co.</td>
<td>99</td>
</tr>
<tr>
<td>Mason Machine Works</td>
<td></td>
</tr>
<tr>
<td>Mason Regulator Co.</td>
<td>66</td>
</tr>
<tr>
<td>Massachusetts Institute of Technology</td>
<td>31</td>
</tr>
<tr>
<td>Massasoit Mfg. Co.</td>
<td>54</td>
</tr>
<tr>
<td>Matheson, Wm. J. &amp; Co.</td>
<td>48</td>
</tr>
<tr>
<td>Mead, John A., Mfg. Co.</td>
<td>33</td>
</tr>
<tr>
<td>Merriam, G. &amp; C. Co.</td>
<td>50</td>
</tr>
<tr>
<td>Midvale Steel Co.</td>
<td>41</td>
</tr>
<tr>
<td>Millett Core Oven Co.</td>
<td>53</td>
</tr>
<tr>
<td>Moore, Alex</td>
<td>76</td>
</tr>
<tr>
<td>Morse Twist Drill &amp; Machine Co.</td>
<td>11</td>
</tr>
<tr>
<td>Mowry &amp; Phillips</td>
<td>93</td>
</tr>
<tr>
<td>Murray Iron Works Co.</td>
<td>46</td>
</tr>
<tr>
<td>National Conduit &amp; Cable Co.</td>
<td>75</td>
</tr>
<tr>
<td>National Shawmut Bank</td>
<td>70</td>
</tr>
<tr>
<td>National Tube Co.</td>
<td>21</td>
</tr>
<tr>
<td>New England Towel Supply Co.</td>
<td>94</td>
</tr>
<tr>
<td>New England Trust Co.</td>
<td>78</td>
</tr>
<tr>
<td>New Excelsior Dry Battery Manufactory</td>
<td></td>
</tr>
<tr>
<td>Newman the Shoeman</td>
<td>26</td>
</tr>
<tr>
<td>New York &amp; Boston Dyewood Co.</td>
<td>66</td>
</tr>
<tr>
<td>Niles Tool Works Co.</td>
<td>61</td>
</tr>
<tr>
<td>Norfolk &amp; Western Ry. Co.</td>
<td>57</td>
</tr>
<tr>
<td>Northern Electrical Mfg. Co.</td>
<td>86</td>
</tr>
<tr>
<td>Norton, A. O.</td>
<td>68</td>
</tr>
<tr>
<td>Norwalk Iron Works Co.</td>
<td>36</td>
</tr>
<tr>
<td>Notman Photography Co.</td>
<td>30</td>
</tr>
<tr>
<td>Oakdale Mills</td>
<td></td>
</tr>
<tr>
<td>Oak Grove Creamery Co.</td>
<td>49</td>
</tr>
<tr>
<td>Ormsby Ventilating Co.</td>
<td>67</td>
</tr>
</tbody>
</table>
Tanks and Towers for
Fire Protection and Water Supply

LARGE OUTFITS A SPECIALTY

We build tanks of either steel or Louisiana Red Gulf Cypress Wood. CYPRESS is noted for its great durability and makes the best wooden tank known.

We build both a tubular column and a structural steel tower. Each has socket connections—is constructed in short sections—is well proportioned, and of guaranteed strength.

We number among our customers some of the largest concerns in the world, which is the best assurance that could be given of the thoroughly reliable character of our work—such, for instance, as The Carnegie Steel Co., The American Cotton Oil Co., The Eastman Kodak Co., The Diamond Match Co., The Marsden Co., The Cambria Steel Co., and others ad infinitum.

For permanent work our prices are extremely low.
Plans and Specifications furnished with propositions.
Send for illustrated catalogue.

W. E. CALDWELL CO.
4500 Brook Street
Louisville, Ky.
U. S. A.
FLEXIBLE CONDUIT
MANUFACTURERS FOR
Flexible Interior Conduit,
SELLING AGENTS FOR
Trade
Boston - ELECTRODUCT - Co.
Mark
Chelsea, Mass., U. S. A.

F. E. ATTEAUX & CO.
174-176 Purchase St., BOSTON,
Manufacturers and Importers of
Dye Stuffs and Chemicals,
Aniline and Alizarine Colors.
CORRESPONDENCE SOLICITED.

BRANCHES:
260 West Broadway, N. Y.;
187 Kinzie St., CHICAGO;
53 Colborne St., TORONTO, ONT.;
11 Letitia St., PHILADELPHIA;
10 West Fulton St., GLOVERSVILLE, N. Y.;
13 Lemoine St., MONTREAL, QUE.

WHEN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
THE LATEST ROAST—Nero Cross Physics, the Bold Romans of '03
Brooks Brothers

Broadway
corner 22d Street, NEW YORK City

Makers of Fine Clothing
in New York City
for nearly A CENTURY

Red Coats lined and unlined and all furnishings and accessories for Golf. Appropriate garments for Riding, Driving, Wheeling and the Hunt.

Medium and Heavy-weight suitings of plain and fancy worsteds and cheviots. Dress Suits and Tuxedos.

Covert Coats, Sandowns and Raglans of various weights and colors Rain-proof garments in our own shapes and our own confined materials.

Neckwear of confined patterns Club and School colors. Gloves for Street Wear, Driving, Bicycle and Golf.

Shirts and Pajamas ready-made and to measure. Bath Robes and Wraps, Room Suits, and Gowns, Hosiery and Underwear.

Leather and Wicker goods, Kit Bags, Shirt Cases, Luncheon and Tea Baskets, Riding Whips, Crops, Twigs, etc., etc.

Our Booklets cover all and illustrate much. Separate editions for Cloth and Furnishing, Liveries and Golf.
AVERY CHEMICAL CO.

Main Office
178 Devonshire Street, Boston, Mass.

Works at Littleton, Mass.

VICTOR KOECHL & CO.

H. A. METZ, President

Alizarine and Aniline Colors
Dyestuffs and Chemicals

Agents for "FARBWERKE," vorm. Meister, Lucius & Bruning, Hoechst-am-Main, Germany

122 Hudson Street, New York

Branches
Boston, Philadelphia, Providence and Chicago

In answering advertisements please mention The Technique
FIRE BRICK

Before you make your estimates
write for our prices on

FIRE STOCK

GAS RETORT SETTINGS

a Specialty

PRESBREY FIRE BRICK WORKS

TAUNTON, MASS.

Hall & Hancock,

Stiff Hats
and
Soft Hats,

CANES, UMBRELLAS,
HAT CASES AND GLOVES.

Discount to
Tech. Students.

407
Washington Street.

MORSE TWIST DRILL & MACHINE CO.

Manufacturers of

Milling Cutters, Angular Milling Cutters, Side or Heading Mills, Concave
and Convex Cutters, Cutters for Spiral Mills, Adjustable Hollow Mills, End
Mills, Morse Taper Shafts, Interlocking Cutters, Cutters for Grooving Taps,
Formed Cutters, Cutters with Inserted Teeth, Angular Cutters and Cutters
for Spiral Mills, Cutters with Radial Grooves, Sprocket Wheel Cutters,
Circular Cornering Quarter Circle, Shell End Mills, Angular Cutters with
Side Ground Concave, Cutters with Double Angle, Formed Cutters with
Double Angle, T Slot Cutters, Morse Taper Shank, End Mills with Center
Cut, End Mills with Spiral Flutes, Gang Cutters.

NEW BEDFORD
MASS.
U.S.A.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
The TECHNIQUE ADVERTISER

---

WHEELER'S
PATENT WOOD FILLER

FILLS THE PORES PERFECTLY, DEVELOPING THE FULL LIFE AND BEAUTY
OF THE WOOD. PERMANENTLY SUSTAINS THE VARNISH OR FINISH.

---

BREINIG'S
LITHOGEN SILICATE PAINT

FOR MARINE AND SEVERE CLIMATES

SOLE MANUFACTURERS

THE BRIDGEPORT WOOD FINISHING CO.
NEW MILFORD, CONN.

55 FULTON STREET, NEW YORK
70 WEST LAKE STREET, CHICAGO

---

LEONARD & ELLIS

Sole Manufacturers of

Valvoline

Lubricating Oils

WILLIAM JAMES GOULDING, Gen'l Manager.
W. H. DRESSER, Local Manager.

No. 27 State Street, Boston, Mass.

---

VALVOLINE LUBRICATING OILS are manufactured in the following grades, each grade having
several qualities, varying in price, according to the crude oil used, and the extent to which they have
been refined and filtered. Valvoline Cylinder Oils, Valvoline White Loom Oils, Valvoline
and Clock Oil, Valvoline Axle Oil.

CAUTION — The acknowledged reputation of VALVOLINE OILS has prompted other parties offering inferior oils to use the
word Valvoline in making sales. The consumer is cautioned that the genuine Oil is always invoiced and branded VALVOLINE,
and is not sold by us to Oil Dealers.

OUR OILS ARE WARRANTED AND SATISFACTION GUARANTEED.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
A. J. Wilkinson & Co.

PRICE LIST

Planer, with countershaft fitted with self-oiling boxes, and wrenches... $165.00

Net weight, 375 lbs.
Weight of Platen, 100 lbs.
Bench surface.
Speed of counter-shaft, 160 rev.
Loose and tight Pulley, 6 x 1½ ins.
Planes, 30 ins. long.

• 12½ ins. wide.
 8½ ins. high.

Planer Bench, weight 225 lbs. ..... 16.00
Planer Chuck, weight 40 lbs. ..... 20.00
Planer Centers ..... 20.00
Grinding Attachment ..... 15.00

MADE BY

A. J. WILKINSON & CO.

IMPORTERS, MANUFACTURERS AND DEALERS IN

Hardware, Machinists' and Manufacturers' Supplies

180 to 188 Washington and 19 to 25 Devonshire Streets
Between State Street and Dock Square

BOSTON

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
CHARLES RIVER IRON WORKS
ESTABLISHED 1860

EDWARD KENDALL & SONS
MANUFACTURERS OF
STEAM BOILERS....
TANKS
AND PLATE IRON WORK
OF EVERY DESCRIPTION

End West Boston Bridge
CAMBRIDGEPORT, MASS

BUFFALO BOLT COMPANY
BUFFALO, NEW YORK.

Send for Catalogue
KYANIZED LUMBER
WILL NOT ROT

AN INHERENT DEFECT IN WOOD IS ITS SUSCEPTIBILITY TO ROT, AND ARTIFICIAL PRESERVATION MUST BE RESORTED TO FOR PROLONGING ITS USEFULNESS WHEN IT IS EXPOSED TO CLIMATIC, OR OTHER CONDITIONS THAT TEND TO HASTEN DECAY

KYANIZING is the only method for the artificial preservation of wood that time has proved to be successful. This process was patented and applied in England about seventy years ago, and has been in use in this country over fifty years. It has out-lived all other methods for preserving wood.

We have a large KYANIZING PLANT at our mills, and we wish to call the especial attention of users of SPRUCE LUMBER to the advantages of treating lumber by this process.

By permission we refer to the Pacific Mills, Lawrence, Mass., who have used a three-inch KYANIZED SPRUCE FLOORING in a basement since 1882, which is now in a perfectly sound condition, whereas formerly this flooring had to be re-laid every four years. The Locks and Canal Company, Lowell, Mass., have also used KYANIZED Lumber during the past forty-five years.

Write to us for further information and prices.

BERLIN MILLS CO.
PORTLAND - MAINE

IN WRITING, PLEASE MENTION THAT YOU SAW THIS ADVERTISEMENT IN The Technique
A PERFECT SYSTEM OF
Lighting Railway Cars
BY ELECTRICITY GENERATED FROM THE CAR AXLE

THE CURRENT generated from the Car Axle while the Train is in motion, and furnished by Storage Batteries while the Car is stationary. THE AXLE LIGHT SYSTEM is adopted by the Leading Railway lines and is giving entire satisfaction. The cost of its Maintenance is insignificant. ELECTRIC LIGHTS and ELECTRIC FANS without Smoke, Heat or Danger from Fire. WRITE FOR PARTICULARS to

THE CONSOLIDATED Railway Electric Lighting and Equipment Company, 100 Broadway, NEW YORK

GRADUATES of Technical Institutes and Colleges may find a PROFITABLE Career in the service of this Company. JNO. N. ABBOTT, Vice-President and General Manager.

RAILROAD TRACK EQUIPMENT
THE CELEBRATED
SNOW AUTOMATIC
SAFETY
SWITCH STAND
RAMAPO
FROGS, SWITCHES AND CROSSINGS

RAMAPO IRON WORKS, Hillburn, N.Y.
GOULD & EBERHARDT
NEWARK, N. J.

BUILDERS OF
High Class
Machine
Tools...

EXTENSION BASE
SHAPER 14 STYLES AND SIZES

MEDAL PARIS 1900

NEW TYPE
Automatic Gear Cutting Machine
18 STYLES AND SIZES
RAPID - ACCURATE - SUBSTANTIAL

Used by the Best
Firms of the World
The Technology Review

A QUARTERLY MAGAZINE DEVOTED TO THE INTERESTS OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PUBLISHED BY THE ASSOCIATION OF CLASS SECRETARIES

71 NEWBURY STREET, BOSTON

The Review aims to develop closer relations among Institute men, and to stimulate their interest in the work of the College.

It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

Subscription, One Dollar a Year
Single Copies, Thirty-five Cents

Volumes I. and II., finely bound in half morocco, are ready for delivery at $2.50 each, or will be exchanged for unbound sets, provided they are in good condition, at $1.50 each.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
REMEMBER That

The FLAT TURRET Lathe

is provided with an outfit of tools for nearly every conceivable shape within its capacity. That it turns all diameters under two inches, and any length under 24 inches. That it is ready to go to work in any shop as soon as belts are put on. That it is not like any other turret machine in this respect, because the FLAT TURRET LATHE was designed after a certain combination of tools had been designed for a certain field of work. That the FLAT TURRET LATHE was not born first.

REMEMBER

that other machines are of the type originally intended for very small work and only for holding tools suitable for such work. That trying to adapt such designs for larger work by resorting to impractical, inconvenient and expensive tools is not satisfactory. It is like trying to make a cat by making the skin first, and putting in the internal "mechanism" last.

REMEMBER

that over fifteen hundred FLAT TURRET LATHES are running to-day, all alike in size and design; and where there is a place for three engine lathes on work under two inches diameter, whether it is only one fourth of an inch long or twenty-four inches, there is a place for this machine—and a saving of from $600 to $1,500 per year in the cost of the work can be made.

FOR SALE ONLY BY

JONES & LAMSON MACHINE COMPANY
Springfield, Vermont, U. S. A.

ENGISH OFFICES: JONES & LAMSON MACHINE CO., 6 Exchange Building, Stephenson’s Place, Birmingham; Germany, Holland, Belgium, Switzerland, Austria-Hungary and Italy; M. KOYEMANN, Charlottenstrasse, 112, Dusseldorf, Germany. FRANCE: PH. BONVILLAIN, 6, Rue Blanche, Paris.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
A PACKING THAT PACKS

GARLOCK packing has the largest sale of any in the world and is to-day used and endorsed by the best engineers in all sections of the globe.

GARLOCK is the standard of to-day because it is made on right principles, and always of the highest possible grade of materials.

We make only the best of packing and back up every ounce by an absolute guarantee. In a word,

GARLOCK MEANS PERFECT PACKING

NO OTHER IS "JUST AS GOOD"

THE GARLOCK PACKING CO.

New York, Chicago, Denver, St. Louis, Cleveland, Boston, Rome, Ga.

MAIN OFFICES and FACTORIES, PALMYRA, N. Y.

THE

Weston

STANDARD

Voltmeters and Ammeters

PORTABLE, ACCURATE, RELIABLE

For Laboratory Use

Our Instruments are RECOGNIZED as STANDARDS throughout the civilized world.

WESTON ELECTRICAL INSTRUMENT COMPANY

114-120 William Street, NEWARK, N. J.

Improved

ROOT

Water Tube

BOILER

Stands Unrivaled for Safety, Economy and Durability.
Furnishes Dry Steam Rapidly.

ABENDROTH & ROOT MFG. CO.

99 JOHN STREET, NEW YORK

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
The TECHNIQUE ADVERTISER

NATIONAL TUBE CO.

MANUFACTURERS OF

WROUGHT MERCHANT PIPE

BOILER TUBES CASING

Tubing & Drive PIPE GAS & Oil Line Pipe

ALL KINDS—SIZES 1-8 inch to 30 ins.

NATIONAL DEPARTMENT—MCKEESPORT, PA.

Water and Gas Mains fitted with Converse or Matheson Joints. Seamless Tubes and Miscellaneous Forging.

LOCAL SALES OFFICES

Havemeyer Bldg., New York 95 Milk St., Boston 267 So. 4th St., Philadelphia
Conestoga Bldg., Pittsburg Western Union Bldg., Chicago
420 California St., San Francisco, Cal. Dock House, Billiter St., London, E.C., Eng

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
ROBERT POOLE & SON COMPANY,
Engineers, Founders and Machinists,
Baltimore, Md.

JENKINS BROTHERS
Manufacturers of
JENKINS Brothers' VALVES
AND
JENKINS STANDARD "96" PACKING

WE have had a quarter of a century's experience in the manufacture of Valves and Sheet Packing for High Pressure Steam. We are beginning the second quarter of a century with valuable experience, and are prepared to furnish Valves and Packing to stand all pressures of Steam, and with facilities for shipping to all parts of the world at short notice. We guarantee in every instance. A complete line carried in stock.

71 John Street, NEW YORK
137 No. Seventh Street, PHILADELPHIA

17 Pearl Street, BOSTON
31 and 33 N. Canal Street, CHICAGO

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
JEWELL BELTING COMPANY

MANUFACTURERS OF

PURE OAK-TANNED LEATHER SHORT-LAP BELTING

HARTFORD, CONN

AMERICAN Steam Gauge Company

MANUFACTURERS OF

Gauges that Gauge
Indicators that Indicate
Pops that Pop

ORIGINAL
AND ONLY GENUINE THOMPSON INDICATOR

CLOCKS, REVOLUTION COUNTERS, WHISTLES
AND ALL KINDS OF STEAMSHIP INSTRUMENTS

New York Boston Chicago

The Only Genuine Thompson Indicator 10,000 in Actual Use

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Boston & Albany R. R.

Has the finest Pullman car-service from Boston to the commercial centres in the West, and is the only line running through cars via

New York Central & Hudson River R. R.
Lake Shore & Michigan Southern Ry.
Big Four Route (C.C.C. & St. Louis Ry.)
and Michigan Central R. R.
(Passing in full view of Niagara Falls)

Go via the Boston & Albany R. R. and New York Central Lines to the

PAN-AMERICAN EXPOSITION
Buffalo, N. Y., May to Nov., 1901.

For Rates and Particulars, address A. S. HANSON,
General Passenger Agent, BOSTON, MASS.

THE
BAKER & ADAMSON
CHEMICAL COMPANY

Manufacturers of
CHEMICALLY PURE MURIATIC
NITRIC and SULPHURIC
ACIDS and AMMONIA

Chemically Pure Salts
Ashless Filter Papers

Works, EASTON and VERSAILLES, PA.
Office, EASTON, PA.

BOSTON & MAINE RAILROAD

FAST TRAIN SERVICE
BETWEEN

BOSTON and
CHICAGO

St. Louis, St. Paul, Minneapolis, and all points
West, Northwest, Southwest.

LOWEST RATES

Pullman Parlor or Sleeping Cars on all Through Trains

For tickets and information apply at any principal ticket office of
the Company:
D. J. FLANDERS, Gen'l Pass. and Tkt. Agt.
BOSTON

The Standard Open-Circuit Batteries
OF THE WORLD.

Gold Medal and Highest Awards, Paris, 1878, 1889,
Chicago, 1893.

The batteries bearing the well-known trade mark, "Gonda," are,
beyond question, the best made in the world, and are everywhere
regarded as the standard. Do not be imposed upon by inferior bat-
teries. See that every cell you buy bears the trade mark "Gonda."

THE LECLANCHE BATTERY COMPANY
111 to 117 East 31st Street, NEW YORK

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Wood Working Machinery Equipment

For
Technical Schools
Planing Mills
Car Shops
Shipbuilding Plants
Pattern Shops
Box Factories

No. 173 DOUBLE IRON SAW BENCH.

No. 98
IMPROVED JOINTING AND FACING MACHINE.

SEND FOR BULLETIN T.

S. A. WOODS MACHINE CO.

ESTABLISHED IN 1854

SOUTH BOSTON, MASS., U. S. A.
WATER WHEELS
FOR HEADS OF 3 FEET TO 2000 FEET.
Adapted to All Kinds of
WATER POWER PLANTS.
We Guarantee HIGHEST POWER, SPEED and EFFICIENCY
from part to full gate ever obtained from a wheel of same dimensions.
Pamphlet sent on request. Please advise power required and your head of water.
JAMES LEFFEL & CO., Springfield, Ohio, U. S. A.

New EXCELSIOR Dry Batteries
All Shapes and Sizes

OUR ECLIPSE, A LITTLE HIGHER IN PRICE THAN OTHERS, BUT THE ONLY CELL WORTH CONSIDERING FOR ENGINE IGNITION.

Efficient, Uniform, Reliable
Sent on approval to any responsible concern.

NEW EXCELSIOR DRY BATTERY MANUFACTORY
108 Greenwich St., NEW YORK

Vibrator Frame and Split Pattern
Machines for Radiators, 15 x 1 x 41

Vibrator Molding Machines
avoiding the use of Stripping Plates

THE TABOR MANUFACTURING CO. 18th & Hamilton Sts.
PHILADELPHIA

JAMES HARTLEY & CO. of Manchester, Ltd.
36 Victoria Buildings, Manchester, Eng.

SCHUCHARDT & SCHUTTE
Vienna, Berlin, Brussels, St. Petersburg

--- MAIN DRIVING BELTS AND BELTING FOR HIGH SPEED AND HARD SERVICE A SPECIALTY

SHULTZ BELTING CO.

Factory, St. Louis, Mo.

Dynamo, Domestic and Imported Picker

LEATHER

Send for Circulars.

SHULTZ PATENT SABLE
RAWHIDE BELTING.
THE TECHNIQUE ADVERTISER

**TABOR STEAM ENGINE INDICATOR**

With Houghtaling
Reducing Motion
SIMPLE RELIABLE COMPACT

Used by the leading consulting engineers and high-class engine builders. Also made with Electric Attachment. A Standard in the United States Navy and used on the ships of the English, German, Russian and Japan Navies.

STEAM GAUGES, EDISON RECORDING GAUGES, REVOLUTION COUNTERS, PYROMETERS, ETC.

SEND FOR CATALOGUE

ASHCROFT MFG. CO. 85-87-89 Liberty St., New York

---

**THE METROPOLITAN 1898 INJECTORS**

are Standard of the World and can be relied upon for satisfactory service under severest conditions. The Most Perfect Injector ever used on a Boiler.

**THE H-D EJECTORS**

are especially adapted for railroad water stations, construction trains and places where it is desired to transport liquids of any kind. Several styles and sizes.

HAYDEN & DERBY MFG. CO. 85-87-89 Liberty St., New York

---

**CONSOLIDATED POP SAFETY VALVE**

Fitted with Richardson's Adjustable Screw Ring
Warranted to Open at the Pressure They are Set At

For Manufacturing Plants, Mills, Factories, Railroads, Pumping Stations, Electric Light Plants and Marine Service

SEND FOR CATALOGUE

CONSOLIDATED SAFETY VALVE CO., 85-87-89 Liberty St., NEW YORK

---

**THE HANCOCK INSPIRATOR**

"Composite" Type for Locomotives

The COMPOSITE is a Compound Hancock Inspirator, consisting of two separate and individual Inspirators within one body, operated either separately or simultaneously. Where it may be desired to locate both injectors on one side of the locomotive convenient to either the engineer or fireman who has charge of pumping the engine, or on the boiler but available to both, the advantages of the "COMPOSITE" are apparent. Its use saves expense for the pipe connections and main steam and check valves that are otherwise necessary when two injectors are used.

THE HANCOCK INSPIRATOR CO., 85-87-89 Liberty St., NEW YORK

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
We make
PORTRAITS
in Platinum & Carbon

CHARLES A. HOYLE
288 BOYLSTON STREET
BOSTON

Special Rates
to all Tech Men

C. F. Hovey & Company,
Importers, Jobbers and Retailers of
Dry Goods.

Gentlemen's Furnishing Goods a Specialty.

BOSTON, MASS.: 33 SUMMER STREET and 42 AVON STREET.
Awarded many prizes when in competition with other photographers, and especially honored by the Photographers’ Association of New England at their 4th Annual Convention September 12-15, 1900, by three Salon awards.

ANNOUNCEMENT 1901

The SENIOR CLASS
Photographer
of MASS. INST. TECH. is

CHAS. W. HEARN

STUDIO
394 Boylston Street
(Near Berkeley St)

SPECIALY FAVORABLE RATES TO ALL STUDENTS OF M.I.T. PORTRAITS IN CARBONETTE PLATINUM AND CARBON.
Notman Photographic Co

384 Boylston Street
and 3 Park Street
Boston

Special inducements to
Tech students

A. D. Maclachlan,
IMPORTER OF AND
DEALER IN
Drawing Materials,
MANUFACTURER OF
School and College Supplies.

J. B. Hunter & Co

Don't buy until you see our Complete Line of
Fishing Tackle
and Anglers' Supplies.

Eastman Kodaks
Developing and Printing.

Golf Goods
Selected Vardon Clubs, Vardon Flyer, and Silvertown Golf Balls.

Cutlery
Drawing Instruments

60 Summer St., Boston, Mass.

In answering advertisements please mention The Technique
The Massachusetts Institute of Technology
BOSTON

HENRY S. PRITCHETT, LL.D., President

THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY offers courses, each of four years' duration, leading to the degree of Bachelor of Science, in Civil, Mechanical, Mining, Electrical, Chemical and Sanitary Engineering, in Architecture, Chemistry, Physics, Biology, Geology and Naval Architecture. A less technical course, in General Studies, is offered to students wishing to qualify themselves for business pursuits.

To be admitted to the first-year class, applicants must have attained the age of seventeen, and must pass satisfactory examinations in Algebra, Plane and Solid Geometry, English, History, French (or German), and must present certificates for one of a series of elective subjects.

A division of these entrance-subjects between two successive years is permitted.

Entrance examinations are held at the Institute in June and September of each year. In June, applicants may be examined also in New York, Philadelphia, Chicago, and other principal cities. A circular stating times and places is issued in advance, and will be mailed on application.

Graduates of colleges and scientific schools are admitted, without examination, to such advanced standing as is warranted by their previous training.

PUBLICATIONS.

The Annual Catalogue, the Report of the President and the Treasurer (issued in December), and any of the following descriptive circulars, will be mailed free on application.

Massachusetts Institute of Technology: an illustrated pamphlet describing the laboratories of the Institute.

Of the Departments of Civil Engineering; Mechanical Engineering; Mining Engineering; Physics and Electrical Engineering; Architecture; Chemistry; Chemical Engineering; Biology; General Studies; Naval Architecture.

In regard to Admission of Graduates of other Colleges; Opportunities for Teachers; The Lowell School of Design; Summer Courses.

H. W. TYLER, Secretary,
491 Boylston Street, Boston, Mass.
Lombard IRON WORKS & SUPPLY CO.

BUILDERS AND DEALERS IN

ENGINES, Boilers, Tanks, Stacks, etc. Cotton, Saw, Fertilizer, Oil and Ice Machinery, and Supplies and Repairs, Machine Tools, Wood Working Machinery, Shafting, Pulleys & Hangers, Leather and Rubber Belting and Hose, Mill Supplies and Tools &

FOUNDRY, MACHINE and BOILER WORKS

CAPACITY FOR 300 HANDS

Estimates furnished for Power Plants, Steam Pumps, Feed Water Heaters & Hoisting Engines

AUGUSTA, GEORGIA

"The first improvement in exterior coloring for half a century,"

is what one of our oldest architects said of

Cabot's Creosote Shingle Stains

when they were invented, eighteen years ago. They give the soft, velvety effects that paint cannot give, and have made possible the beauty that has given shingled houses such wide vogue. They are fifty per cent cheaper than paint, one hundred per cent handsomer, and "wood treated with Creosote is not subject to dry rot or other decay." — Century Dictionary.

Samples of all colors, with colored sketches, sent on application.

Cabot’s Sheathing "Quilt"—keeps the cold out.

SAMUEL CABOT, Sole Manufacturer,

73 Kilby Street, Boston, Mass.

AGENTS AT ALL CENTRAL POINTS.

CUSHMAN & CHUCKS

WHEN you buy a "CUSHMAN" Chuck, the only things to consider, are the work you wish to do, and the size of your machine.

There is absolutely nothing else to concern you. Material, construction and workmanship in a "CUSHMAN" Chuck are such that the result is a perfect tool, and we fully guarantee every one to be right.

We manufacture Chucks of all kinds, of all sizes, and for all purposes.

Catalogue Free

THE CUSHMAN CHUCK CO.

HARTFORD, CONNECTICUT

FOR CASE-HARDENING

CARBURIZER IS THE MOST EFFICIENT MATERIAL

It penetrates deeper, gives a harder surface, with a tough core, in less time than any other case-hardening material.

Carburizer requires no preparation, contains no obnoxious substances, does not corrode the article, and Iron or Steel do not become brittle if properly treated.

The CARBON projected into the metal by our process is not lost, if the hardened piece requires re-heating.

Carburizer is fully thirty per cent cheaper than granulated Bone because of its lighter bulk weight and quicker work

For full particulars address

AMERICAN CARBURIZING CO

160 Pearl St., NEW YORK

Factory, Warren and Bay Streets, JERSEY CITY, N. J.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
THE CHAPIN COAL COMPANY
Dealers in
Hard and Soft COAL & WOOD
Of All Kinds.

No. 512 ATLANTIC AVE.
BOSTON
Liverpool Wharf   Telephone 1180

THE Winslow Bros Co
CHICAGO
WERE AWARDED
THE GRAND PRIZE
AND
TWO GOLD MEDALS
AT THE
PARIS EXPOSITION
.. 1900..
FOR
ORNAMENTAL IRON and BRONZE

JOHN A. MEAD MFG. CO.
11 BROADWAY, NEW YORK CITY
Coal Handling MACHINERY
CLAM SHELL SHOVELS, McCASLIN OVERLAPPING GRAVITY BUCKET CONVEYOR, CABLE RAILWAYS AUTOMATIC RAILWAYS, HARRISON CONVEYOR

E. J. BRODY & CO
FRENCH PLATE MIRRORS
Window and Plate GLASS
Rough and Ribbed Plate, Leaded and Ornamental Glass
GLAZING A SPECIALTY MIRRORS RE-SILVERED

75-77 Portland Street
Boston, Mass.

In answering advertisements please mention The Technique
G. P. ANDERSON
MANUFACTURER OF
Engine and Pump Packings

SPECIAL PACKING FOR
HIGH STEAM PRESSURE


New England Agent for
KIELEY & MUELLER, N.Y.

Reducing Pressure Valves, Back Pressure Valves, Exhaust or Atmospheric Relief Valves, Steam Traps, Steam Separators, Grease Extractors, Pump Governors, Tank Controllers, Damper Regulators, and Feed Heaters.

73 Oliver Street, BOSTON, MASS.
Telephone 930 Main

WEBSTER OIL &
GASOLENE CO.

H. WALTER STEPHENSON, Treas.
No. 96 ESSEX ST., BOSTON
Telephone 898 Oxford

ENGINE AND CYLINDER OILS
MACHINERY AND LUBRICATING OILS

General Supplies

NAPHTHA
COTTON WASTE

KEROSENE
WIPING RAGS

We deliver large or small orders free of charge in the city proper.

Try our Piano Lamp Oil put up in cases of six cans—each can with a faucet. The finest oil in the finest form. No danger. No dirt.

Roe Stephens Mfg. Co.

DETOIT, MICH.

Manufacturers of

Scott’s

Gate, Globe, Radiator, Angle, Check, Pop Safety and Relief, and Back Pressure Valves

Also Flower’s Cushion Check Valves, Goldsmith Throttle Valves.

We make a line of extra heavy brass and iron Gate, Globe, Angle and Check Valves that cannot be surpassed.

Write for catalogue.

Scott Valve Co. Western Agents

CHICAGO, ILL.

M.I.T. MEN

seldom make the mistake of trying to show their importance when entering a new foundry by pronouncing the stock they find in use, n. g., and throwing it away.

There is very little facing wholly unfit for use, but it is hard to find any quite equal to ours.

Our Charcoal Facing is superior to any other brand for either stove work or brass castings.

For brass parting it equals lycopodium. Send address and we will send samples of any kind of Facing—charcoal lump or powdered.

Springfield Facing Company

L. S. BROWN

SPRINGFIELD, MASSACHUSETTS
"There is no more use in washing out boilers in the old way than there is for railroading without the air brake or injector. Nothing but water will make steam, so keep grease and compounds out of the boiler. Heat is the best agency known for separating solid matter from water. A boiler is the best contrivance yet devised by man for heating water. As most of the solid matter contained in the feed water comes to the surface when steam is up, that is the best place to remove it. The surface skimmer does this before it starts to make the second round with the circulation. What little is left goes to the leg of the boiler and is removed by the mud ring device. This absolutely prevents foaming, reduces the number of washouts, and prevents incrustation and corrosion, and is far in advance and much more practical than purifying the water before entering the boiler, and after first cost, costs nothing."
THE NORWALK IRON WORKS CO., SOUTH NORWALK, CONN., MAKERS OF AIR AND GAS COMPRESSORS FOR ANY VOLUME AND FOR ANY PRESSURE.

ARMSTRONG 20TH CENTURY TOOLS
FOR LATHE AND PLANER WORK.

- Straight Lathe Tool (8 sizes)
- Boring Tool (3 sizes)
- Straight Cut-off Tool (7 sizes)
- Special Planer Tool (6 sizes)
- New Gang Planer Tool (3 sizes)

Using inserted cutters of SELF-HARDENING STEEL, SAVE time and trouble, 70 per cent grinding, 90 per cent tool steel. All forging and tempering dispensed with.

PURDUE UNIVERSITY, Lafayette, Ind
ARMSTRONG BROS. TOOL CO.
Gentlemen: Some time ago you sent us for trial one of your No. 4 Boring Tools. It has proved very satisfactory, more than taking the place of the ordinary forged boring tool, and in some instances far surpassing it. I am much pleased with your tools, and have shown them to a number of visitors, who have appreciated their value, and said they hoped to give them a trial. Enclosed please find another order for tools, which kindly send at once, and oblige. Respectfully,

W. P. TURNER,
Instructor in Machine Work.
Manufactured only by
Armstrong Bros. Tool Co.
(The Tool-Holder People)

CHICAGO, ILL. U.S.A.

New Tools — Keep Posted
Write for Catalog.

Electric Lamps enable you to fit the lighting to the need
THEY SAVE CURRENT THEY FIT YOUR SOCKETS LAST LONG AS THREE COMMON LAMPS

Hylo lamps can be turned up or down as easily as you regulate gas—a quarter turn of the glass bulb does it. Turned high 60 watts—turned low 10 watts. Ask your dealer or write to
THE PHELPS COMPANY
BOSTON OFFICE
22 SUMMIT ST.
ELMWOOD, ILL., U.S.A.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
The Only Fibrous Packing Made on Scientific Principles

DANIEL’S PATENTED

ROD PACKING

For all rods—Water, Steam, Ammonia, Air, etc.
More elastic, less friction, longer life, greater saving of labor and money than any other.
Send for trial. When used according to directions, no pay, if not as claimed.

SEND FOR BOOKLET

MANUFACTURED ONLY BY

QUAKER CITY RUBBER CO.
409 Market St., PHILADELPHIA, PA., U.S.A.
O. M. SCOVELLE & CO.
(Mr. Scovelle, formerly with Messrs. Haight & Freese.)

Bankers and Commission Stock Brokers
92 State Street Boston

Stocks and Grain Bought and Sold for Cash or Carried on
3% to 5% MARGIN

Private Wires to Members
New York Consolidated Stock Exchange,
New York Cotton Exchange,
Chicago Board of Trade.

Unexcelled facilities for the legitimate handling of Marginal Accounts.

THE WATERBURY FARREL FOUNDRY & MACHINE CO.
Waterbury, Connecticut, U. S. A.

Builders of
DROP HAMMERS, POWER PRESSES, FOOT PRESSES
HYDRAULIC PRESSES, HYDRAULIC PUMPS AND
ACCUMULATORS, MACHINERY FOR MAKING SHEET
METAL, TUBING AND WIRE.

Builders of Machinery for Making
Rivets, Hinges, Nuts, Locks, Ferrules,

Machines for rolling threads on bicycle spokes, screw blanks, etc.

BLANCHARD, KING & CO.
The Young Men's HABERDASHERS

Novelties and Specialties in Original Designs & Special Order Work of all kinds in Men's Furnishings & Shirt Makers.

MAIL ORDERS PROMPTLY ATTENDED TO
226 Boylston Street
BOSTON
Crocker-Wheeler Company,
MANUFACTURERS and ELECTRICAL ENGINEERS.

Direct current machinery for all purposes in standard sizes.

Special Designs for Printing, Mining, Cranes and Hoists.

TELEPHONE.

Branch Offices
AND
Representatives
IN
All
Principal
Cities.

250 K.W. ENGINE TYPE GENERATOR

MAIN OFFICE and WORKS, AMPERE, N. J.
N. E. Branch Office, 31 State Street, Boston.

Broderick & Bascom Rope Co.

MANUFACTURERS OF THE “CELEBRATED BRAND,”

“PATENT STEEL” ROPE
(Trade Mark Registered.)
Unequalled for Strength and Durability.

ALSO
WIRE ROPE TRAMWAYS
For conveying of Ore, Fuel, Merchandise, etc.
LOAD MECHANICALLY. UNLOAD AUTOMATICALLY.

Main Office, 809 N. Main Street, ST. LOUIS, MO.
Branch Office, 33 South Street, New York, N. Y.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Braman, Dow & Company
Steam Fitters and Mill Supplies
Steam and Water
HEATING
Plans and Estimates Furnished
239 to 245 CAUSEWAY ST.
BOSTON
BRANCH HOUSE WORCESTER, MASS.

TOLES QUICK ACTION VISES
Guaranteed to be unbreakable in use
We furnish Benches fitted with these or any other Vises and are
Headquarters for

Manual Training Supplies
Including Benches, Tools and Equipment
Our stock of Hardware, Cutlery and Mechanics’ Tools is large and complete
CHANDLER & BARBER
Between Devonshire and High Sts.
124-126 SUMMER STREET BOSTON

Organized 1874
Incorporated 1890
James Russell
Boiler Works Co.
Manufacturers of
Steam Boilers, Tanks and Plate Iron Work
FOR SUGAR REFINERIES,
GAS WORKS, WATER WORKS
Locomotive Boilers
Tender Tanks
Railroad Work
Engineers and Contractors
Specialties
Office and Works Cor. C and 1st Sts.
SOUTH BOSTON, MASS
Telephone, 427-8 So. Boston
James Russell, Pres.
Duncan D. Russell, Treas.
THE MIDVALE STEEL CO.,

Locomotive and Car Wheel Tires, Forgings and Castings, Bar Steel.

Nickel Steel Forgings for Marine Engines.

Ordnance Forgings and Castings.

OFFICE AND WORKS:
PHILADELPHIA, PA.
Users of Lumber get what they want at the right prices from

GEORGE W. GALE LUMBER CO.
STOCK, MILL, AND DRY HOUSES

640 MAIN STREET, CAMBRIDGEPORT, MASS.

WE SELL

CEDAR POLES AND TIES

in ANY quantity, for ANY purpose—Electric and Steam Roads; Telephone and Electric Light Plants. Yards scattered all through Michigan.

MALTBY LUMBER CO.
BAY CITY, MICH.

VACUUM OILS
ARE MADE TO FIT EVERY CONDITION.

They lubricated the electric light plant in Pekin, and lubricated boats that brought the allies. Beseiged and besieged used them in South Africa. Ninety per cent of the machinery at Paris turned on Vacuum Oil. In peace or war—all the same—they lubricate most on every kind of machinery; not the same oil for all machines, but the right oil for each class. They do their work better and cheaper than all others; that is why they are used in every corner of the world where machinery runs. Vacuum Oils are made only at our own works at Rochester and Olean, New York. Abroad they are distributed from one hundred and thirty-three warehouses, and at home are sold in every city.

VACUUM OIL COMPANY, ROCHESTER, NEW YORK.
American Sheet Steel Company
Battery Park Building New York
Manufacturers of all varieties of
Iron and Steel Sheets
Black and Galvanized Plain and Painted
Flat, Corrugated and "V" Crimped
Apollo Best Bloom Galvanized Sheets
W. Dewees Wood Company's Planished Iron
W. Dewees Wood Company's Refined Iron
Wellsville Polished Steel Sheets
Thorough Inspections
AND
Insurance against Loss or Damage to Property and Loss of Life and Injury to Persons caused by

Steam Boiler Explosions.

J. M. ALLEN, President.
WM. B. FRANKLIN, Vice-President.
F. B. ALLEN, Second Vice-President.
J. B. PIERCE, Secretary.
L. B. BRAINEID, Treasurer.
L. F. MIDDLEBROOK, Ass't Secretary.

JAMES HUNTER
MACHINE
COMPANY
NORTH ADAMS — MASS.

Manufacturers of
FRICITIOH CLUTCH
PULLEYS and CUT-OFF
COUPLINGS

SHAFTING
and ALL ITS ACCESSORIES
FOR POWER TRANSMISSION

FORE!

J. Bishop
and Company
Established 1842

Hammered Platinum Ware
OF ALL KINDS
Guaranteed FREE of BLISTERS or FLAWS

SUGARTOWN, PA

All articles of Platinum re-made or repaired at reasonable rates and guaranteed. Send for circular and prices.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Fore River Ship & Engine Company

OFFICE & WORKS QUINCY, MASS.

Shipbuilders

BUILDERS of

U. S. Battleship RHODE ISLAND
U. S. Battleship NEW JERSEY
U. S. Cruiser DES MOINES
U. S. Destroyer LAWRENCE
U. S. Destroyer MACDONOUGH
Cape Hatteras LIGHT SHIP NO. 72
A PRACTICAL EXPERIENCE of Twenty Years in the use of GAS for Mechanical Operations requiring PROPERLY APPLIED H.E.A.T is illustrated in our Catalog of UP TO DATE FUEL GAS PLANTS—ADOPTED BY U. S. MINTS

GAS BLAST FURNACES AND HEATING MACHINES NOISELESS PRESSURE BLOWERS

Mailed on request

AMERICAN GAS FURNACE COMPANY
20 John Street, NEW YORK

High-Grade CORLISS ENGINES

The Murray Iron Works Company

THE UNITED GAS IMPROVEMENT CO
PHILADELPHIA, PA.

Builders, Lessees and Purchasers of Gas Works

Builders of

THE STANDARD LOWE WATER GAS APPARATUS

Pamphlets, plans and estimates furnished upon application

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
LIDGERWOOD Hoisting Engines
are Built to Gauge on the Duplicate Part System.

STANDARD
FOR
ENGINEERS
CONTRACTORS
BUILDERS
MINING
AND
EXCAVATING.

STEAM AND ELECTRIC
HOISTS
OVER 17,500 IN USE
LIDGERWOOD MFG. CO.
SEND FOR CATALOGUE

Baldwin Locomotive Works
SINGLE EXPANSION AND COMPOUND LOCOMOTIVES

Established
1831
Annual
Capacity
1,200

BURNHAM, WILLIAMS & CO. - - PHILADELPHIA, PA., U. S. A.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
100 PER CENT PURE

WE have manufactured Dobbins' Electric Soap for 35 years, during which time it has always been acknowledged to be the very best family soap ever made. At first it sold at 20 cents per pound; as its use has grown, and the cost of its ingredients has been reduced, its price has been lowered, always retaining its highest standard of purity and excellence, until now it can be retailed, where freight is not too high from Philadelphia to the place of its sale,

AT FIVE CENTS PER BAR

There is no soap in the world that compares with it for purity, economy, or cheapness.

It is not a new thing, but has stood the test of a generation of competition and imitation, and is today used by millions of women who have used it for years and years, and who know by actual test and experience that it is better and cheaper than all others.

We do not advertise it as 99.99 per cent pure to catch the eye. We claim, and always have claimed, and guarantee it to be

100 PER CENT PURE

5 cents a bar, full-size bar

Quality Unchanged

The best soap at the price of the poorest.

Try Dobbins' Electric Soap once, carefully, according to directions.

Observe how soft and clean your flannels are. They are not shrunken, harsh and discolored as they would be washed with rosin soaps.

Note how pure white, clean and sweet your linens are, without stains, or odors of rosin and filthy grease.

See how admirably it washes laces and delicate fabrics.

Note the time and labor saved in washing, and the saving of wear and tear on the washboard.

FOR SALE BY ALL FIRST-CLASS GROCERS

Also Sole Manufacturers of

"BRADFORD" SOAPS for Mills, as follows:

FOR COMBING WOOLS

Oleine Soap, B Olive Oil Soap, BB Olive Oil Soap

BBB Olive Oil Soap, BBBB Olive Oil Soap

FOR FULLING AND SCOURING

Dobbins' Electric, Solid Dobbins' Electric, Bars
Dobbins' Electric, Shavings

DOBBINS' PURE PALM OIL

General Office, 119 S. Fourth St., PHILADELPHIA

Wm. J. Matheson & Co., Ltd.

Importers and Manufacturers of

DYE STUFFS

New York
Boston
Philadelphia
Providence
Charlotte, N. C.
Montreal, Canada

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
ALLEN, SOLLY & CO.'S

Hosiery & Underwear
FOWNE'S GLOVES

Scotch Rugs, Inverness Coats, Silk Sleeves, Cardigan Jackets,
Golf Stockings, London Made Kit Bags, French Toweling,
Bath Wraps, Fell's Friction Towels, New Shirtings.

HEWINS & HOLLIS
Hamilton Place, BOSTON

Special Notice to the Technology Students

W e wish to announce that we have enlarged our lunch room, and equipped it with all modern
improvements for quick service, and are prepared to serve everything the market affords, well
cooked and perfectly served, at reasonable prices.

Below is a facsimile of check worth $5.50 which we sell for $5.00.

OAK GROVE CREAMERY CO.
445 Boylston Street.
Luncheon

We also serve the regular dairy lunches, pure milk and cream, fresh-churned butter, fresh-laid eggs, and
creamery cheese. All our products come from our own dairy, and are of the best quality and freshness.

NEW EDITION
Webster's International Dictionary
25,000 NEW WORDS, ETC.
Better Than Ever for Home, School, and Office. Also Webster's Collegiate Dictionary. Specimen pages, etc., of both books sent on application.

DAMRELL & UPHAM
The Old Corner Book Store
Corner of School and Washington Streets
BOSTON, MASS.

Students at the Institute of Technology can obtain their Text-Books at Special Prices.

LOOKING AHEAD FOR A GOOD THING.
"THE ONLY WAY."

H. G. LOCKE, General Agent
Chicago & Alton Railway
383 Washington St., Boston, Mass.

GEO. J. CHARLTON
General Passenger Agent
Chicago, Ill.
"CAHALL"

VERTICAL WATER TUBE BOILERS

"Babcock & Wilcox" TYPE
Horizontal WATER TUBE BOILERS

MANUFACTURED BY

The
Aultman & Taylor Machinery Co

MANSFIELD, OHIO.

CAHALL SALES DEPARTMENT:
Taylor Building, New York, N. Y.
Tremont Building, Boston, Mass.
The Rookery, Chicago, Ill.
Perin Building, Cincinnati, O.
Henshaw, Bulkley & Co., San Francisco, Cal.

SEND FOR ILLUSTRATED CATALOGUE

J. M. BEMIS, President
G. B. ROBERTS, Treasurer

ROBERTS IRON WORKS CO.

MANUFACTURERS OF

STEAM BOILERS
and PRESSURE TANKS

PLATE AND SHEET STEEL WORK OF EVERY DESCRIPTION

TELEPHONE 121 CAMBRIDGE

180 to 198 Main Street, CAMBRIDGEPORT, MASS.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Bleaching, Dyeing, Drying and Finishing Machinery

For Textile Fabrics

Also Machinery for Finishing Fine Papers

Granger Foundry and Machine Co.

Providence, R. I.

Sharpening a Dixon

is as different from sharpening a common pencil as the quality of Dixon's pencils is different from and better than that of ordinary kinds. It never tries one's temper to sharpen or to use Dixon's American Graphite Pencils. Among the immense variety of styles and sizes, you'll surely find the right pencil for your particular work.

For 16 cents we will send samples worth twice that amount, if your dealer hasn't them.

Joseph Dixon Crucible Co., Jersey City, N. J.
EXPLANATORY PAMPHLET

ON PRINCIPAL ADVANTAGES

SIMPLICITY—
Three baths

QUICKNESS—
One to five hours

CERTAINTY—
Results always same

PERMANENCY—
Color totally removed

ON RESULTS OBTAINABLE

WHITE—Without tinting

EFFECT—
No yellowing with age

MATERIAL—
As strong as before

SAVING—
Of time and labor

SAVING—
Of freight and storage

THE ROESSLER & HASSLACHER CHEMICAL CO.

Chemical Works
PERTH AMBOY, N. J.

Office, NEW YORK

Peroxide Works
NIAGARA FALLS, N. Y.

OVER 400
NOW IN USE

Every one a reference

Millett's Patent
Core Ovens

Double Doors
one closing the oven when other is open

Saves Fuel  Saves Time

MILLETT CORE
OVEN CO.

BRIGHTWOOD, MASS.

AGENTS
J. W. Paxson Co.  S. Obermayer Co.
Philadelphia  Chicago and Cincinnati
AMERICAN BALANCE VALVES
ALL TYPES OF VALVES FOR ALL KINDS OF SERVICE

SLIDE VALVES BALANCED WITH A BEVELED RING EXPANDED OVER A CONE
PISTON VALVES ABSOLUTELY BALANCED

A PLUG VALVE WHILE UNDER STEAM: A SNAP RING VALVE WITHOUT STEAM
WE MAKE NOTHING BUT AMERICAN BALANCED MAIN VALVES FOR VARIOUS ENGINES
OUR SATISFIED PATRONS ARE ALL OVER THE WORLD. WE CAN SATISFY YOU
EVERY VALVE GUARANTEED

PHOTOGRAPHS, DRAWINGS, AND SPECIAL INFORMATION CHEERFULLY FURNISHED BY

AMERICAN BALANCE VALVE CO. Home Office, SAN FRANCISCO, CALA.
Eastern Works, JERSEY SHORE, PENNA.

Massasoit Manufacturing Co.

COTTON WASTE
OF ALL KINDS

For RAILROAD, STEAMBOAT
and SHOP USE

Contractors for Cotton Mill Waste,
Paper and Stock Bagging.

WENDELL E. TURNER
Treasurer
Fall River, Mass

SASH CORD
CLOTHES LINES
CURTAIN CORD

MASONS' LINES
CHALK LINES
SHADE LINES, Etc.

SAMSON SPOT CORD
used, after test, for hanging the windows of the
HENRY L. PIERCE BUILDING, M.I.T.
Is warranted of pure stock and perfect braid,
and may be known at sight by its distinctive
mark—the colored spot.

Samson Cordage Works
Boston, Mass.

RAWSON & MORRISON MFG. CO.

AUTOMATIC COAL HANDLING MACHINERY

“STANDARD” AND “EASTERN” HOISTING ENGINES
ELECTRIC HOISTS, CABLEWAYS AND SPECIAL MACHINERY

NEW YORK, 11 BROADWAY
Baltimore, 727 German
CHICAGO, 48-50 Lake Street
PHILADELPHIA, 333 Bourse

Works and Executive Offices
31-45 MAIN STREET
CAMBRIDGEPORT, BOSTON, MASS.

Cable Address
MORRISON

Long Distance Telephones
MANUFACTURERS OF

INSULATED WIRES
and CABLES

INTERIOR, AERIAL, SUBMARINE
UNDERGROUND

ELECTRIC
HEATING
DEPARTMENT

All Sorts of Electric
Heating Apparatus

Enamel Rheostats
Unit System

Car Heaters

When your College Life's over
and you find yourself in need of a

Water Meter, Gas Meter or Gas
Pressure Regulator

you've only to write the

PITTSBURG METER COMPANY

EAST PITTSBURG, PA.

and you'll receive all the information you require, and prices, by return mail, free.

It's a WESTINGHOUSE COMPANY

GEORGE WESTINGHOUSE, President
E. E. KELLER, Vice-President

T. L. BROWN, Treasurer
A. G. HOLMES, Secretary and Manager
CENTRAL ELECTRIC COMPANY
CHICAGO, ILLINOIS

FURNISH MATERIAL OF EVERY DESCRIPTION USED IN THE EMPLOYMENT OF THE ELECTRIC CURRENT

R I E H L E

MARBLE MACHINES TESTING MACHINES
ROBBIE JACKS IRON FOUNDRERS AND MACHINISTS
SPECIAL MACHINERY

1424 N. NINTH STREET - PHILADELPHIA, PA., U. S. A.

P A T E N T S

Fifteen years of continual practice before the U. S. Patent Office gives me the ability to render inventors valuable service in procuring their patents. I am an electrical and mechanical expert, thoroughly conversant with U. S. and foreign patent laws.

PATENT LITIGATION. OPINIONS.

F. W. BARNACLO

809-811 Equitable Building - BALTIMORE, MD.
602 F Street, N. W. - - - WASHINGTON, D. C.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
KUTTROFF, PICKHARDT & CO.

Sole importers of the products manufactured by
BADISCHE ANILIN- & SODA-FABRIK,
Ludwigshafen o/Rh., Germany.

128 Duane St. - - NEW YORK.

Branch Offices:
Boston - - - 153 Milk Street.
Providence - - - 80 So. Water Street.
Philadelphia - - 207 Chestnut Street.
Chicago - - - 207 Michigan Street.

Aniline and Alizarine Dyes.
Colors, Chemicals, and Indigo.
Technical Chemicals, Liquid Chlorine.
Anhydrous Sulphuric Acid, also Fuming, all strengths.

Norfolk and Western Railway Co

PASSENGER ROUTES TO THE SOUTH AND WEST

ALL RAIL—The Shenandoah Valley Route, made famous by Luray Caverns, Natural Bridge, and its beautiful mountain, river and valley scenery.
The Washington, Lynchburg and Bristol Route—old and reliable. Everybody should try it, and take a day or a week off at the National Capital.

To take either route is a guarantee of the best Pullman service, most courteous attention, and good hotels en route between New England, Knoxville, Chattanooga, Nashville, Memphis, New Orleans and Florida.

SEA AND RAIL—A delightful sea voyage to Norfolk by the palatial steamships of the Merchants & Miners Transportation Company, and thence over the Norfolk & Western Railway, is indeed a most enjoyable outing.

PRINCIPAL PLACES REACHED: Luray Caverns, Natural Bridge, Petersburg, Richmond, Lynchburg, Roanoke, Bristol, Knoxville, Chattanooga, Nashville, Memphis, Little Rock, Hot Springs, all Texas, all Indian Territory, all Oklahoma Territory, all points in Georgia, Florida, Alabama, Mississippi and Louisiana.

Chillicothe, Columbus, Cincinnati, all Kentucky, Indianapolis, St. Louis,
Chicago, Kansas City, Omaha, Salt Lake and the Pacific Coast.

Tickets and full information will be cheerfully furnished by C. P. GAITHER, New England Agent.
JAMES H. MCCORMACK, Trav. Agt.
TELEPHONE 2891 MAIN

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique.
GIFTS for all occasions

$1 to $10

Sterling Silver  Gold
China  Cut Glass

CARD AND CLASS ENGRAVING
ATHLETIC PRIZES, UMBRELLAS
OPERA GLASSES
GOLD CHAINS, FOBS, SLEEVE
LINKS—new, artistic, all prices

A. STOWELL & CO
Incorporated
24 WINTER STREET

CHAS. SPAULDING, Manager.  Established 1886.
CHAS. S. WEEKS, Treasurer.  Incorporated 1896.

SPAUDDLING
Print Paper Co.
Importers and Sensitizers of
RENA GE BLUE PROCESS
PAPERS
BLUE PRINTING BY ELECTRIC LIGHT
BLUE PRINT CLOTH, DRAWING PAPER, TRACING
PAPER, TRACING CLOTH, MAILING TUBES

TELEPHONE 4103 MAIN
Office and Factory
44 Federal St., BOSTON

A GOOD INVESTMENT

WE HAVE A LINE OF

Students Notebooks

IT WILL PAY TO EXAMINE THEM

F. W. Barry, Beale & Co
STATIONERS
Nos. 108 & 110 Washington St., cor. of Elm St
BOSTON, MASS

SOMETHING NEW IN THIS COUNTRY

THE RIVERSIDE RECREATION GROUNDS
On the CHARLES RIVER at RIVERSIDE
MASSACHUSETTS

Canoeing, Swimming, Pool, Running Track, Tennis,
Field for Baseball and Football, Outdoor Gymnasium,
Bowling Alleys, Club House with Restaurant, Danc-
ing Pavilion, Club Room, Private Club Parlor, Storage
for 500 Boats

Membership—$10.00 a Year from April 1, 1901
Canoe Racks—$5.00 a Year from April 1, 1901

Send for application blank and circulars to
JAMES B. KNOWLTON, Manager
AUBURNDALE, MASS.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique


**STARRETT’S**

**Draughting Instruments**

**COMBINATION**

No. 165½

---

<table>
<thead>
<tr>
<th>Tool</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge, 42-in. graduated</td>
<td>$6.75</td>
</tr>
<tr>
<td>Bevel Arm, 15-in., with clasp and section liner</td>
<td>$7.50</td>
</tr>
<tr>
<td>Protractor</td>
<td>$5.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$19.25</strong></td>
</tr>
</tbody>
</table>

---

This combination of tools will be found to be a great aid to better and easier draughting. The Straight Edge has needle carriers on each end, swinging on taper studs. These may be swung to bring the points close to the working edge, and by a slight turn of a knurled nut may be rigidly locked, holding the straight edge bradded to the paper. We make these straight edges in six lengths, from 18 to 48 in., and either plain or graduated.

The Bevel Arms, with clasp and section liner, are made in 15, 24 and 36-in. lengths, and may be used with our graduated T squares as well as with the straight edges.

The Section Liner is in the form of a knuckle joint and feeds either way against the graduation marks. By thumb pressure on the button-headed screw, which may be adjusted to fine or coarse movement, hatching may be rapidly and evenly done, and for accurately spacing work to the scale of $\frac{1}{16}$, $\frac{1}{8}$, or $\frac{1}{4}$ to the foot, the device is a great convenience.

The Protractor is $\frac{1}{4}$ of a 14-inch circle and is graduated to quarter degrees. It accurately fits the bevel arm either side up.

Further information with prices of the various sizes of these instruments, is given on pp. 103 et seq. of our Catalogue No. 16X of Fine Mechanical Tools. The Catalogue is free.

---

**The L. S. STARRETT CO.**

**ATHOL, MASSACHUSETTS, U. S. A.**
POCKET CODDINGTON MAGNIFIERS

WE SUPPLY THESE POPULAR MAGNIFIERS AT THE FOLLOWING PRICES

\[
\begin{align*}
1\frac{1}{2} \text{ inch Focus} & \quad $1.50 \text{ each} \\
1 \text{ inch Focus} & \quad $1.25 \text{ each} \\
\frac{3}{4} \text{ inch Focus} & \quad $1.25 \text{ each} \\
\frac{1}{2} \text{ inch Focus} & \quad $1.25 \text{ each}
\end{align*}
\]

DISCOUNT 10% TO STUDENTS

A full line of Pocket Magnifiers, Microscope Slides, Cover Glasses, etc., at prices that are right.

Kodaks Cameras
Gorz Anastigmat Lenses
and Photographic Supplies
AT LOWEST PRICES

SPECTACLES and EYEGLASSES

We manufacture and retail the best quality only, at prices that are the lowest in the city—quality considered

PINKHAM & SMITH
.. Opticians..
288 Boylston Street

LONG DISTANCE TELEPHONE

CHANDLER & FARQUHAR

Machine Tools and Supplies

Agents for
THE DAVIS & EGAN MACHINE TOOL CO.
THE W. F. & JOHN BARNES CO.
THE GARVIN MACHINE CO.
THE NORTON EMERY WHEEL CO.

Machine Tools and Supplies

HOLBROOK, CABOT & DALY

Engineers and Contractors

Room 1140
Tremont Building

34-36-38 Federal Street
131-133 Congress Street

34-36-38 Federal Street

Boston

34-36-38 Federal Street

Boston, Mass

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Pratt & Whitney Company, Hartford, Conn., U.S.A.

24-inch Standard Measuring Machine

Determines Variations within

\[
\frac{1}{100,000} \text{ mm. or } 10,000 \text{ inch.}
\]

Engine Lathes, Planers and Shapers for Tool-room and Manufacturing Work.
Centring Machines; Cutting-Off Machines, with increase speed mechanism; Die-Sinking Machines; Adjustable Multi-Spindle Drills;
Double and Single Head Milling Machines, with Horizontal or Vertical Spindles.
Drop Hammers and Trimming Presses.
Gun-Barrel Drilling Machines; Gun-Barrel Rifling Machines.
Hand Turret-Head Screw Machines; Turret-Head Chucking Machines, with Brass-Working Tools; Turret-Head Facing and Chucking Machines; Turret-Head Chasing Lathes.
Automatic Turret-Head Screw Machines.
Precision Bench Lathes and Milling Machines, with Attachments; Sub-Presses and Dies.
Standard Reamers, for Machine Shop and Locomotive Work; Standard Taper Pins.
Millling Cutters, Formed and Inserted Blade; Metal Slitting Saws.
United States, French, International and Whitworth Standard Taps and Dies.
Ratchet Drills; Lathe Tools and Combination Lathe Chucks.
Send direct to us or to our nearest representative for illustrated and descriptive "Technique" catalogues.

GRAND PRIX, PARIS, 1900
LUFKIN Measuring Tapes

Are the Standard Tapes of the World unequalled for accuracy and reliability

LUFKIN RULE CO. SAGINAW, MICH., U.S.A.

Original Manufacturers and Introducers of Lactic Acid Products

HENRY W. WILLIAMS

(OF THE MASSACHUSETTS AND UNITED STATES BARS.)

Solicitor of Patents and Counsellor in Patent Causes.

PATENTS AND TRADE MARKS

Secured in this and all patent granting countries, and Patent and Trade Mark suits prosecuted and defended in the United States Courts.

Opinions rendered as to scope of patent claims, and validity and infringements of patents and trade marks. Interferences conducted in the United States Patent Office.

131 DEVONSHIRE STREET
Opposite Post Office, BOSTON

APPARATUS FOR THE
Softening and Purification of Boiler Water

Before it enters the Feed-Water Heater, so that it will NEITHER SCALE, CORRODE nor FOAM.

For Particulars Address INDUSTRIAL WATER COMPANY 15 WALL STREET NEW YORK

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
IMPERIAL TYPE II

DUPLEX BELT-DRIVEN AIR COMPRESSORS

SOMETHING NEW

The Latest and Best Type of Small Belt-driven Air Compressors

MADE IN FOUR SIZES

Capacity from 40 to 200 cubic feet of Free Air per minute

Our Prices will Interest You

RAND DRILL COMPANY

128 Broadway, NEW YORK
EASTERN FELT and BUFFING WHEEL CO.
MANUFACTURERS OF
FELT POLISHING WHEELS

Our Independent Wheel is a one-price wheel made of the best material, and of special workmanship.


Orders Filled Promptly. Goods Warranted. Samples sent on Trial to Responsible Parties.

Office
143 FEDERAL ST., BOSTON, MASS.
TELEPHONE MAIN 4556-2.

Blount, Lovell & Co.
DESIGNING AND EXPERIMENTAL WORK

Automatic Gear Cutting
JOBBING MACHINISTS
100 High St., Boston, Mass.

GEO. T. HOYT & CO.
Headquarters and Manufacturers of

BUNTING FLAGS and FLAG POLES
Awnings, Tents, and Piazza Curtains. Canopies for Weddings, Receptions, Parties, etc., always on hand and put up at short notice.

BURGEES, PENNANTS, VESSEL COLORS and SIGNALS a Specialty

52 South Market Street
Corner Commercial BOSTON
CAMERON
STEAM PUMPS
NO OUTSIDE VALVE GEAR

REGULAR PATTERN

The CAMERON pump is entirely without outside valve gear, rods or lever arms to become bent, rusted or broken, and thus cannot be injured by blasting and will work under water or even buried beneath fallen rocks and debris, and it has the only simple inside valve movement, consisting, as it does, of four stout pieces without grooves, packing rings or minute parts, and the only one using the old flat slide valve — the best steam valve yet devised.

Our new Catalogue, No. 20, with estimates and general information regarding the installation of pumps, will be furnished upon application.

PIPE PATTERN

We strongly recommend our pipe pattern plunger pump, for handling water impregnated with sulphuric acid. While this form of iron cylinder is far less costly than a water end of solid bronze, its different sections when eaten away may be renewed, and the whole cylinder is not ruined by the corrosion of any part.

A. S. CAMERON STEAM PUMP WORKS
FOOT OF EAST 23d ST., NEW YORK CITY
S. B. Condit, Jr & Company

Designers & Manufacturers of HIGH & LOW TENSION CIRCUIT BREAKERS & SWITCHES. Special attention given to designing and building HIGH TENSION SWITCH-BOARDS, OIL CIRCUIT BREAKERS and SWITCHES FOR ALTERNATING HIGH TENSION WORK.

63 Oliver Street
BOSTON, MASS.

“A TECH” MEN

Who have worn Newman’s Varsity Shoes will confer a favor by telling their lady friends what they know about Newman's Shoes, as we are now making

Varsity Shoes FOR WOMEN
in all styles.

Newman The Shoeman
Tremont Building, BOSTON

A STANDARD DEVICE FOR THE AUTOMATIC REGULATION OF STEAM, WATER AND AIR PRESSURES.

We also make PUMP GOVERNORS, DAMPER REGULATORS, BY-PASS VALVES, BALANCED VALVES.

Write for Illustrated Catalog.

WARREN BROTHERS COMPANY,
TESTING LABORATORY.

Bituminous materials, whether asphalt or coal tar, are very susceptible to practical physical and chemical tests to determine their real value. The practical methods and deductions from tests are not available for the use of technical men in any published work with which we are familiar. Long experience has indicated to us the importance of careful chemical and laboratory work in order to produce the best material for any given use.

We are maintaining at our factory on Potter St., E. Cambridge, the most complete bituminous testing laboratory in New England, and any technical man interested in the subject will be gladly entertained by the President or Chemist, the latter a graduate of Heidelberg, Germany, who has given years in this particular field. For use of our laboratory apply to F. J. Warren, President, 143 Federal St., Boston.

Warren Brothers Company, manufacturers of Asphalt and Coal Tar Roofing, Paving and Waterproofing Materials, and contractors for all kinds of Bituminous and Hydraulic Cement Roofing, Paving and Structural Work.

Office, 143 FEDERAL ST., BOSTON.
Telephones 4064 and 1605.
Monitor and Lantern
ROOF WINDOWS
TRANSOMS & SKY LIGHTS
in Machine Shops, Foundries
Mills, Churches, Halls, Greenhouses, etc.

All can be operated by the
BEST
DEVICE IN USE

Strongest Lightest Quickest
Neatest

THE
ORMSBY VENTILATING SYSTEM

ORMSBY VENTILATING CO., 71 Summer Street, MELROSE, MASS.

THIS SYSTEM can be applied from a variety of styles, to WINDOWS of various forms, none too light or too heavy, or too great a distance from the operating handle.

TELEPHONE CONNECTION

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
COCHRANE CHEMICAL CO.
55 Kilby Street, Boston.

OIL VITRIOL,
MURIATIC ACID,
NITRIC ACIDS,
MURIATES OF TIN,
ALUM,
SULPHATE ALUMINA,
WOOL CARBONIZERS,

MANUFACTURERS OF
SULPHATE OF AMMONIA,
AQUA AMMONIA,
SULPHATE OF SODA,
STANNATE OF SODA,
BI-SULPHATE SODA,
CHLORIDE ALUMINA,
IRON LIQUORS,
and various other Chemicals.

EXTRACT OF INDIGO,
GLAUBER'S SALT,
ACETIC ACID,
TIN CRYSTALS,
ACETATE OF SODA,
NITRATE IRON,
NITRATE COPPER,

BUSINESS FOUNDED 1849.

Works at EVERETT, MASS.

The ... Simonds Saws and (All kinds)

Machine Knives (All kinds)

THE GRAND PRIX
A GOLD MEDAL

USE THE BEST.

THE NORTON
BALL BEARING SCREW JACKS

HAVE NO EQUAL FOR ALL KINDS OF HEAVY LIFTING.

We refer by permission to the Massachusetts Institute of Technology.

A. O. NORTON, Manufacturer,
167 OLIVER STREET.
BOSTON, MASS.

New York and Boston Dyewood Co.
Manufacturers of ...

DYEWOODS AND EXTRACTS
For Dyeing and Tanning.

IMPORTERS OF INDIGO AND ANILINE COLORS.

55 Beekman Street, 115 and 117 High Street, 122 and 124 Arch Street,
NEW YORK. BOSTON. PHILADELPHIA.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique.
THE SOLVAY PROCESS CO.
Alkali Manufacturers.

Works at SOLVAY, near Syracuse, N.Y. DELRAY, near Detroit, Mich.
Soda, Caustic, Crystals, Etc.

SEMET-SOLVAY COKE OVENS
With Recovery of By-Products.

ENSLEY, Ala. DETROIT, Mich.

General Offices: SYRACUSE, N.Y.

STEEL RAILS of all sections and weights.
SPECIAL WORK for Street Railways.

Our Switches, Mates and Frogs have Hard Steel Centers and are put in to stay.

205 BROADWAY,
CAMBRIDGEPORT, MASS.

BARBOUR-STOCKWELL CO.
The National Shawmut Bank of Boston,

60 Congress Street, Cor. Water.

<table>
<thead>
<tr>
<th>CAPITAL</th>
<th>-</th>
<th>-</th>
<th>$3,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURPLUS</td>
<td>-</td>
<td>-</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>UNDIVIDED PROFITS</td>
<td>-</td>
<td>-</td>
<td>$500,000</td>
</tr>
<tr>
<td>DEPOSITS</td>
<td>-</td>
<td>-</td>
<td>$32,500,000</td>
</tr>
</tbody>
</table>

OFFICERS:

JAMES P. STEARNS, President.
E. HAYWARD FERRY, Vice-President.
FRANK H. BARBOUR, Cashier.
WALLACE S. DRAPER, Asst. Cashier.
HENRY F. SMITH, Asst. Cashier.

Accounts of Banks, Bankers, Trustees and Individuals solicited.

THE

Employers’ Liability Assurance Corporation,

(LIMITED)

OF LONDON, ENGLAND.

Liability, Accident, Health
AND
Fidelity Insurance.

APPLETON & DANA,

Manager and Attorney,
United States Branch,
71 Kilby Street, Boston, Mass.

Franklin Laboratory Supply Co.

Successors to Franklin Educational Co.

15 Harcourt Street, Boston, Mass.

Manufacturers and Dealers in
LABORATORY SUPPLIES.

Physical, Chemical, and Biological

Apparatus required for the experiments of the leading textbooks promptly furnished at moderate prices.
We shall be pleased to receive your orders, or to answer any inquiry regarding our goods or prices.
Catalogues sent on application.

Address,
FRANKLIN LABORATORY SUPPLY CO.,
15 Harcourt St., Boston, Mass.
Asphalt Rubber Roofing Paint. Unequaled for Iron, Tin, Steel or Felt Roofs.

FIRE AND WATER PROOF.

Warranted:
A written Guarantee of 20 years is given with this Paint.

Send for Catalogue and Price List.

World's Fair Award.
We are the only Asphalt Rubber Roofing Company awarded Medal and Diploma for Asphalt Rubber Roofing Paint, at the World's Columbian Exposition, at Chicago in 1893.

ESPECIALLY ADAPTED FOR RAILROAD WORK.

Asphalt Rubber Paint Co.,
Manufacturers Asphalt Rubber Roofing Paint and Cement,
496 Maine Ave., S. W., WASHINGTON, D. C.

The Very Latest At Special Rates to "Tech" Students.

For the Newest and Nicest Styles in Modern Photography

...SEE...

Elmer Chickering,

21 WEST STREET, BOSTON, MASS.

SODAOGLOLOGY
and its attendant delights freely discussed at all hours of the day and evening at

Countie's
Commencement du siecle
Pharmacy

Home of the Black Cat
Gallery of Famous Americans
Birthplace of Magda Toilet Cream

23, 25, 27 and 29 CHARLES STREET
BOSTON, U. S. A.

DAVIDSON GOLF BALLS

THESE balls are made of the finest Gutta Percha that can be bought. The process by which the gum is cleaned removes all the rosin and acids, and the ball will last indefinitely, and will never lose its resiliency. Ask your dealer for it. We will send 3 balls for $1.00, by mail pre-paid, to enable you to try them.

Davidson Rubber Co.
19 Milk Street. BOSTON, MASS.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
J. E. PURDY AND Co.
Top Grade Photographers.

Prominent People whom we have Recently Photographed:

Hon. John D. Long  
Capt. Robley D. Evans, U. S. N.
Hon. M. A. Hanna  
Capt. William C. Gibson, U. S. N.
Hon. Cornelius N. Blist  
Capt. F. W. Dickens, U. S. N.
Hon. George F. Hoar  
Capt. A. S. Snow, U. S. N.
Hon. George S. Boutwell  
Capt. Edwin Longnecker, U. S. N.
Hon. Elilhu Root  
Col. P. C. Pope, U. S. M. C.
Hon. Timothy L. Woodruff  
His Excellency Wu Ting Fang  
Gen. O. O. Howard, U. S. A.
Gov. W. Murray Crane  
Rear Admiral N. M. Dyer, U. S. N.
Hon. John L. Bates  
Capt. Frank Wildes, U. S. N.
Gen. Curtis Guild, Jr.  
Col. E. M. Weaver, U. S. A.
Hon. William H. Moody  
Capt. John Bordman
Hon. John F. Hill  
Capt. Geo. A. Dodd
Hon. Llewellyn Powers  
Rev. George C. Lorimer, D. D.
Hon. Jonathan Ross  
Rev. Geo. A. Gordon, D. D.
Hon. Henry F. Naphen  
Rev. James De Normandie, D. D.
Hon. George Fred. Williams  
Rev. W. B. Frisby
Ex-Gov. William Claflin  
Rev. E. A. Horton, D. D.
Gen. Leonard Wood  
Rev. E. Winchester Donald, D. D.
Hon. Josiah Quincy  
Rev. Arthur Little, D. D.
Hon. S. S. Blanchard  
Rev. C. A. Dickinson, D. D.
Winslow Warren, Esq.  
Rev. S. H. Roblin, D. D.
Robert Treat, Esq.  
Rev. Francis E. Clark, D. D.
Col. Henry Walker  
Rev. Thomas Van Ness
Mr. B. F. Keith  
Rev. Herbert S. Johnson
Mr. Wulf Fries  
Rev. W. W. Bustard
Mr. John Philip Sousa  
Rev. S. L. Loomis
Miss Maud Gonne  
Rev. S. C. Gunn, D. D.
Mr. Raymon Reyes Lala  
Rev. B. Fay Mills
Mrs. Rebecca D. Rowe  
Rev. C. C. Earle
Mrs. E. M. Henrotin  
Rev. Smith Baker
M. Henri de Regnier  
Rev. W. S. Kelsey
Miss Ruth Long  
Rev. W. E. Barton
M. Vladimer de Pachman  
Rev. E. C. Webster
Dr. Laura A. C. Hughes  
Rev. G. H. Filint
Winston Churchill, M. P.  
Rev. C. A. Langston
Mr. Winston Churchill, Author  
Rev. Mary T. Whitney
Valberta  
Rev. John S. Linsday
Mr. B. B. Croswinthield  
Rev. John Galbraith
Mr. Wilhelm Gericke  
Rev. C. A. Crane
Sir Dominick Colsaghi  
Rev. W. T. Dakin
Most Rev. John Travers Lewis  
Rev. F. W. Sprague
Mrs. Ada Leigh Lewis  
Rev. R. L. Green
Rear Admiral N. H. Farquhar, U. S. N.  
Rev. Scott F. Hershey
Rear Admiral Frederick Rodgers, U. S. N.  
Rev. A. H. Blewend

STUDIOS:
146 TREMONT STREET, . . . . BOSTON.

In answering advertisements please mention The Technique
MINER ROBINSON,  
Electrical Engineer,  
302 Equitable Building, BOSTON.

High Grade Electrical  
Complete Electric Lighting  
Work of Every Description.

TELEPHONES: BOSTON, **3371, WEST NEWTON, **141.

EVANS' Patent EXPANSION BOLTS are the only ones that will draw your work down hard and make it fit to stone, brick or concrete.

They are unequalled for fire-proof buildings, electric light and power installations, iron railings, frames, fencing balusters, awnings, etc. Agencies in all large cities. Send for Catalogue and Sample.

F. H. EVANS, Patentee and Sole Mfr.  
596 to 614 Kent Ave., Brooklyn, N.Y.

H. H. CARTER, '77  
Consulting Engineer  
Ex-Supt. of Streets, Boston.

TELEPHONE 2424

Street, Sewer and Water Works.  
Construction, Estimates.  
Advice to Contractors.  
Expert Testimony.

95 MILK STREET

STONE & WEBSTER  
Electrical Experts and Engineers & &

93 Federal Street, BOSTON, MASS.

ANDREW J. LLOYD & COMPANY  
OPTICIANS

Down-town Store,  
No. 323 WASHINGTON STREET, BOSTON  
Opposite the Old South Church.

CAMERAS, PHOTOGRAPHIC SUPPLIES, ETC., OF  
EVERY DESCRIPTION AT LOWEST PRICES

Back Bay Store,  
No. 310 BOYLSTON STREET, Opposite Arlington Street.

H. M. PLIMPTON & CO.

Fine Bookbinding

655 ATLANTIC AVENUE  
BOSTON, MASS.

ULRICH HOLZER,  
Bookbinder,  
25 BROMFIELD STREET, BOSTON, MASS.

All Kinds of Books Bound or Repaired.

Maps and Charts Mounted.  
Blank Books, Portfolios, etc., made to order.  
Lettering in Gold or Silver.  
Photographs mounted on Card or Paper without cockling.  
Paper Splitting, Inlaying, etc.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
THE NATIONAL CONDUIT & CABLE CO.
HEAD OFFICE: TIMES BUILDING, NEW YORK CITY

BEAUTY AND EFFICIENCY

ARE COMBINED WHEN A PIECE OF MACHINERY IS FINISHED WITH OUR PRODUCTS. WE WERE PIONEERS IN THE MANUFACTURE OF

- Priming and Finishing
- Paint
- Improved Iron Filler
- Machinery Enamel
- Flat Black Lacquer

These goods are eminently satisfactory wherever used and are growing into greater popularity every day. Inquiries cheerfully answered and prices quoted on application.

FELTON, SIBLEY & CO.
136-138-140 North Fourth Street • • • PHILADELPHIA

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Bookbinding
in every style.

Binder to
Massachusetts
Institute of Technology,
Museum of Fine Arts,
Etc., Etc.

Alex. Moore,
No. 3 School Street, Boston.
At the Old Corner.

THE
Berkeley
Hotel,
BERKELEY AND
BOYLSTON STS.,
Near Technology Buildings.

EUROPEAN
AND
AMERICAN
PLANS.

JOHN A. SHERLOCK.

Hotel
Brunswick
BOSTON, MASS.

American and European
Plans.

Opposite Institute of Technology.

BARNES & DUNKLEE,
Proprietors.

H. H. BARNES, Manager.

A. S. ADAMS,
Maker of the Official M. I. T. PIN,
8 Winter Street, Boston

The only Jeweler in the M. I. T. Co-operative Catalogue.

Any Member wearing this Pin will be allowed 10 per cent
discount on all purchases.

We now have the above pin in a new half size; also M. I. T.
Football Hat Pins, Link Cuff Buttons, Pencil Tips, etc.

Silver Enamel, plain monogram, 75 cents.
Silver Enamel, raised monogram, $1.00.
10-karat Gold, plain monogram, $2.25.
14-karat Gold, raised monogram, $3.00.
Small Silver Scarf Pin, 50 cents.
14-karat Gold Scarf Pin, $1.75.

Established in 1850.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
The ILLUSTRATIONS for this book were made by the Suffolk Engraving & Electrotyping Company 234 Congress Street BOSTON, MASS

Illustrating, Half-tone & Line Engraving, Electrotyping, Three-Color Work

SPECIAL ATTENTION GIVEN TO COLLEGE PUBLICATIONS CORRESPONDENCE SOLICITED
Akron Cement

The Strongest Natural Hydraulic Cement Manufactured in America. In Successful Use for the past Fifty Years.

Union Akron Cement Company
Office, 141 Erie Street, BUFFALO, N. Y.

THE ATLANTIC WORKS
INCORPORATED 1853.
Border, Maverick and New Streets, East Boston.

BUILDERS OF
STATIONARY BOILERS AND MARINE
Plate and Sheet Iron Work of every description.

STEAMSHIPS, TOW BOATS, STEAM YACHTS AND HEAVY MACHINERY.

The New England Trust Company

Is authorized to act as Executor and receive and hold money or property in trust or on deposit from Courts of Law or Equity, Executors, Administrators, Assignees, Guardians, Trustees, Corporations and Individuals.

It will also act as Transfer Agent for Railroad and other Stock Corporations, and as Agent for the purpose of issuing, registering or countersigning Bonds and Certificates of Stock.

Deposits may be made at any time, and interest will be allowed on daily balances of Five Hundred Dollars and upwards.

It offers to the public the advantages of a Capital and a Guarantee Fund of Two Million Dollars and a corporate succession.

BOARD OF DIRECTORS

WM. ENDICOTT, Pres't
Chas. F. Choate, Vice-Pres't
Chas. H. Dalton, Vice-Pres't
Amos W. Stetson
Charles U. Cotting
Jacob Edwards
Alexander Cochrane
D. R. Whitney, Actuary

N. H. Henchman, Secretary

J. Lewis Stackpole, Vice-Pres't
George Dexter
William Farnsworth
George Wigglesworth
Charles L. Young
James J. Storrow
H. N. Marr, Assistant Secretary

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
LIST OF SPECIALTIES WE MANUFACTURE:

- Improved Pressure Regulator
- Improved Pump Regulator
- Water Pressure Regulator
- Expansion Trap
- Return Steam Trap
- Balanced Steam Trap
- Relief Valve for Steam and Water
- Damper Regulator
- Combined Separator and Trap
- Temperature Regulator
- Tank Governor and Pump
- Air Spring Pressure Regulator
- Cellar Drainer
- I. S. C. Ball Cock

SEND FOR 1901 CATALOGUE

JULIAN D'ESTE COMPANY

24 CANAL STREET, BOSTON, MASS.
Rainproof Coats. Mothproof Coats.

Rainproof and Mothproof are the two important features of our coats and garments. There are other features we would be glad to explain. These are the Original and Genuine Franklin Waterproof Cloths.

Manufactured by
Franklin Rubber Co.
13 FRANKLIN ST.,
BOSTON.

FOR SALE AT ALL FIRST-CLASS STORES.

Henry Guild & Son
Manufacturing Jewelers

Make a Specialty of MEDALS, BADGES, SOCIETY PINS AND RINGS.

We make the Official M. I. T. Pin.

WE ALSO MAKE THE
Phi Beta Epsilon, Delta Upsilon, Sigma Alpha Epsilon, Theta Xi, Hammer and Tong, and other Class Pins for the M. I. T.

We keep in Stock an Assortment of DIAMONDS and FINE JEWELRY.

433 Washington Street, cor. Winter Street, BOSTON, MASS.

George H. Lane, TAILOR,

Always on hand a large and carefully selected stock of Fine American and Foreign Woolens.

PRINCE ALBERT and DRESS SUITS OUR SPECIALTY.

MODERATE PRICES.

Custom Department,
Continental Clothing House,
18 Boylston Street and
651 Washington Street,
BOSTON.

Useful to Students

HANDSOME DESK APPOINTMENTS
(NICKEL PLATED.)

PIN $1
PAPER FASTENER

POSTAL SCALE $1
2-lb.

One Blow Does it All!

Remit in cash or P. O. order, with shipping directions.

HURD & CO. 570-576 West Broadway NEW YORK CITY

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Purdy's

An establishment or group of studios, the largest and best equipped in the country, for the making of all kinds of photographs and portraits.

Patronized by many of the most eminent people in public life and to an unprecedented extent, by artists and scholars. A place where the same cleverness and care poses the college graduate that is given the author or statesman, and where no order is large enough to be hurried or small enough to be ignored; a place of which ten thousand tongues sing praise, and where uniform excellence and reasonable celerity are perpetual residents.

146 Tremont Street
Boston

Typewriter Bargains

Typewriters Sold, Rented and Repaired.

The Typewriter Exchange,
38 Bromfield Street,

E. M. Bennett, Manager.

BOSTON.

In answering advertisements please mention The Technique
Electrical Supplies Of Every Description.

SOLE N. E. AGENTS FOR

Okonite Wires, INTERIOR CONDUITS.

Pettingell Andrews Company, BOSTON . . . . MASS.

CENTRAL Manufacturing Co., CHATTANOOGA, TENN., U. S. A.

Manufacturers and Dealers in

Yellow Pine, Cross Arms,
Locust Pins,
Oak Fins, Electrical Mouldings,
Oak Brackets.

Delivered, prices quoted, F. O. B. cars, your city, in any quantity.

LARGE STOCKS ON HAND. WRITE US.

SMITH & LOVETT COMPANY

Established 1863

Manufacturers of
Aniline Colors
Biedrich on the Rhine, Germany.
American Branch,
No. 77 John Street, New York.

Philadelphia, 115-117 South Front Street.
Boston, 145 Pearl Street.

Builders’ Iron Work

Beams, Girders, Columns,
Iron Fronts, Hyatt Light.
Fire Escapes, Ornamental
Grills, Shutters, Fences,
Bolts, Slaters’ and Masons’
Tools, Store Trucks,
Blacksmith and Machine
Jobbing, etc.

JOBBOING A SPECIALTY. ESTIMATES GIVEN.

125 to 129 Albany St., Boston, Mass.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Ziegler Electric Company

Manufacturers of High-Grade Scientific Apparatus

ZIEGLER ELECTRIC CO. 141 Franklin St., Boston, Mass.

SEND FOR OUR CATALOGUE No. 10.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
JENA NORMAL GLASS. THE BEST GLASS FOR LABORATORY USE.

EIMER & AMEND,
Nos. 205-211 THIRD AVENUE.
NEW YORK.

Manufacturers and Importers of

Chemicals, Chemical Apparatus and Assay Goods.

Always have on hand a large, excellent line of Platinum, Balances, Acids, R. B. and R. M. Porcelain, Zeiss' Optical Goods, Schmidt & Haensch Polariscopes, etc.

We are Sole Agents for KAHLBAUM'S FAMOUS ORGANIC and INORGANIC CHEMICALS.

Bay State Belting Co.
119 Franklin St.,
Boston, Mass.

Branches:
New York,
Philadelphia,
Atlanta,
Memphis.

Trade Mark
INDIAN TANNED

Sole Tanners and Manufacturers of the
Genuine Indian Tanned Belting and
Soling Leather.

TANNERIES, Sa'lem, Mass. FACTORY, South Boston.

COTTON MILLS

By utilizing the waste heat from your fuel gases you are enabled to heat your feed water considerably above boiling point. You can use the most economical condensing auxiliary pumps, with a maximum waste of exhaust, having hot feed water from the economizer. You can use the hot water for heating your mill successfully. You can make a SAVING in fuel of 12 per cent. to 20 per cent. You can make a saving in repairs to your boilers. You can increase the efficiency of your plant.

HOW? By using a Green's Economizer.

Sole Makers in the U. S. A.

The Green Fuel Economizer Co.
MATTEAWAN, N. Y.

Bleach and Dye Works

By using the hot water from the economizer in your kiers and vats you can save 12 per cent. to 20 per cent. in FUEL. You can save 20 per cent. in TIME in the boiling process. You need never run short of steam. You can have hot feed water for your boilers as well as hot water for your DYE HOUSES. You can do better work with less waste. Less complaint from your Dyer about not having enough steam, and less grumbling from your engineer that the Dye House is using all the steam with general satisfaction all around. HOW? By using Green's Economizer.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Motor Generators and Electric Power Machinery

Self-Starting
Alternating Current Motors for any frequency or voltage

Multipolar Slow Speed Motors to operate on any power circuit
Dynamos for electro-depositing and lighting

Careful mechanical construction and high efficiency are characteristic of our apparatus

HOLTZER-CABOT ELECTRIC CO.

NEW YORK

BOSTON (Brookline) MASS.

CHICAGO

Northern Vertical Motor

are the most easily and economically adapted to every variety of work.
Can be direct connected, geared, or belted to any machine, pump, hoist, crane, compressor, blower, engine or tool.

M.I.T. and Tech Engineers everywhere are delighted with the design and work of our motors. They are admired because of their neatness, compactness, utility and efficiency.

Our Power and Lighting Generators are also at the top notch of popularity.

Be sure to get our Catalogue and Bulletins. Give your class.

NORTHERN ELECTRICAL MFG. CO., Madison, Wis., U.S.A.
Bay State Seam Face Granite Company,
PRODUCERS OF
Rock and Seam Face Granite in ALL Dimensions Required
for Construction Purposes.

Strongest and most durable Granite in the market as shown by analysis of Massachusetts Institute of Technology and United States Government report.

Office, 53 STATE STREET, BOSTON, MASS. Telephone, 4260 Boston.
Quarries, HINGHAM and WEYMOUTH, MASS.

THE BRAINERD STEAM TRAP.

(Edited in United States and Foreign Countries.)

A simple and absolutely reliable machine. Compare the capacity of the Brainerd Steam Trap with that of any other make.

We guarantee to discharge condensation as fast as received into Trap. We guarantee the Trap valves on our different size Traps to be equal to the areas of the inlet and outlet standard pipe sizes. We guarantee to elevate water from 50 to 200 feet above level of Trap. We guarantee our Copper Floats to withstand 700 pounds steam pressure per square inch. Our valve gear is made of special phosphor bronze metal. Our Traps fitted with by-pass strainer and mud drain, and we claim for this Trap to discharge from 90 to 900 per cent more water than any other float-trap on the market—based on its discharge—the cheapest Trap built in this country. To responsible parties Traps sent out on 30 days trial. We renew the valve gear at cost when worn out. Here is the guaranteed capacity of these Traps under 100 pounds steam pressure. — One-half inch, 1,080 gallons per hour; three-quarter inch, 2,580 gallons per hour; one inch, 3,800 gallons per hour; one and one-half inch, 7,790 gallons per hour; two inch, 11,000 gallons per hour. In use by the War Department shore service, U. S. Government war ship equipment, bleacheries, power houses, sugar refineries, breweries, and in foreign service. Write to us for circulars, references, prices and discounts. Your favors will receive our prompt attention.

BRAINERD STEAM TRAP CO.
12 Howes St., Boston, Mass.

JESSOP'S STEEL

BEST ENGLISH STEEL, BEST TOOL STEEL, in great variety of sizes.
ROCK DRILL STEEL (in bond or duty paid).

BEST CIRCULAR AND BAND SAW PLATES.
BEST ANNEALED TOOL AND DIE STEEL.
DOUBLE SHEAR AND SHEET STEEL.
TRUSS SPRING AND BLISTER STEEL.
ANNEALED DIE BLOCKS.

WM. JESSOP & SONS, Limited, 91 JOHN STREET, NEW YORK.
Manufactury, SHEFFIELD, ENGLAND.

THE TECHNIQUE ADVERTISER

W. L. GARRISON, President.
S. KIMBALL HARRISON, Vice-Pres.
JOHN J. BARRY, General Manager.

Bay State Seam Face Granite Company,
PRODUCERS OF
Rock and Seam Face Granite in ALL Dimensions Required
for Construction Purposes.

Strongest and most durable Granite in the market as shown by analysis of Massachusetts Institute of Technology and United States Government report.

Office, 53 STATE STREET, BOSTON, MASS. Telephone, 4260 Boston.
Quarries, HINGHAM and WEYMOUTH, MASS.

THE BRAINERD STEAM TRAP.

(Edited in United States and Foreign Countries.)

A simple and absolutely reliable machine. Compare the capacity of the Brainerd Steam Trap with that of any other make.

We guarantee to discharge condensation as fast as received into Trap. We guarantee the Trap valves on our different size Traps to be equal to the areas of the inlet and outlet standard pipe sizes. We guarantee to elevate water from 50 to 200 feet above level of Trap. We guarantee our Copper Floats to withstand 700 pounds steam pressure per square inch. Our valve gear is made of special phosphor bronze metal. Our Traps fitted with by-pass strainer and mud drain, and we claim for this Trap to discharge from 90 to 900 per cent more water than any other float-trap on the market—based on its discharge—the cheapest Trap built in this country. To responsible parties Traps sent out on 30 days trial. We renew the valve gear at cost when worn out. Here is the guaranteed capacity of these Traps under 100 pounds steam pressure. — One-half inch, 1,080 gallons per hour; three-quarter inch, 2,580 gallons per hour; one inch, 3,800 gallons per hour; one and one-half inch, 7,790 gallons per hour; two inch, 11,000 gallons per hour. In use by the War Department shore service, U. S. Government war ship equipment, bleacheries, power houses, sugar refineries, breweries, and in foreign service. Write to us for circulars, references, prices and discounts. Your favors will receive our prompt attention.

BRAINERD STEAM TRAP CO.
12 Howes St., Boston, Mass.

JESSOP'S STEEL

BEST ENGLISH STEEL, BEST TOOL STEEL, in great variety of sizes.
ROCK DRILL STEEL (in bond or duty paid).

BEST CIRCULAR AND BAND SAW PLATES.
BEST ANNEALED TOOL AND DIE STEEL.
DOUBLE SHEAR AND SHEET STEEL.
TRUSS SPRING AND BLISTER STEEL.
ANNEALED DIE BLOCKS.

WM. JESSOP & SONS, Limited, 91 JOHN STREET, NEW YORK.
Manufactury, SHEFFIELD, ENGLAND.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION THE TECHNIQUE
The Prouty Boat Motor.

A hand-motor for propelling boats, giving better results than hand power as applied to oars, i.e. greater speed with less labor and skill, and with less commotion in the water than with oars. Can be operated by one, two, three or four persons.

Unlike other power, the expense ends with the first cost. There is no complicated machinery to require attention and keep in repair, and no possible danger from explosion or otherwise.

Write for full descriptive pamphlet and price list of Motors and complete outfits.


Superior Quality
Best Workmanship

TERRA COTTA
ROOFING TILE

ALIGNMENT with advanced thought and practice in building construction, compels the reflective engineer to consider and ultimately adopt the modern proposition for roofs, viz.,

STEEL AND TERRA COTTA
No leaks nor drip of condensation. Nothing else so effective nor ultimately so inexpensive for industrial buildings of all kinds.

LUDOWICI ROOFING TILE COMPANY
508 Chamber of Commerce, Chicago
Telephone Connection.

**ALBERT SCOTT, Florist.**

Artistic Floral Work a Specialty.

82 BEACON STREET,
Opp. Public Garden,
BOSTON, MASS.

**SPECIAL SETS Drafting Instruments FOR M. I. T. STUDENTS AT LOWEST PRICES. Largest stock in New England of Drawing and Blue Process Papers, Scales, Triangles, Curves, T Squares, Pencils, Colors, Brushes, Drawing Inks and Artists' Materials.**

WADSWORTH, HOWLAND & CO., INCORPORATED.
Manufacturers of School Colors, and Artists' and Draftsmen's Supplies of every description.

82 and 84 Washington St., Boston, Mass.
216 and 218 Clarendon St.,
FACTORIES, MALDEN, MASS.

**PARKER HOUSE,**
**School and Tremont Streets. EUROPEAN PLAN.**

**HOTEL TOURAINE,**
**Boylston and Tremont Streets. EUROPEAN PLAN.**

**YOUNG'S HOTEL,**
**Court Street. EUROPEAN PLAN.**

J. R. WHIPPLE & CO., PROPRIETORS.

**BENT & BUSH**
**387 Washington Street BOSTON**

PINS
FLAGS
SPOONS
CLASPS
BUCKLES
STATIONERY

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
The Dodge Manufacturing Co.

ENGINEERS. FOUNDERS. MACHINISTS.

MISHAWAKA IND. U.S.A.

Branches:
Boston New York

Patentees and Sole Manufacturers of the

Dodge AMERICAN SYSTEM Manila ROPE TRANSMISSION

Contractors of

Complete Power Equipments
For Power Stations, Mills and Factories of every description.

Designers and Builders of

Grain Elevator Machinery

Typical installations are illustrated and described in each issue of Power and Transmission, an illustrated Quarterly Review of Factory Economy and Power Transmission Engineering. Sample copies and other "Dodge" publications for the asking.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Rubber Neck
Sheet Leader
for Yachts.

This is the Best Leader in the Market.
It is noiseless and will swivel
to any position.

Manufactured only by
Boston & Lockport Block Company
142 Commercial Street, Boston, Mass.
Complete Catalogue on application.

J. B. COLT CO.
Acetylene
Gas
Generators
Safe, economical and absolutely reliable.
The ideal light for country homes
Indorsed by National Board of Fire Underwriters and leading architects.
Criterion
Stereopticons
Estimates Furnished.

146 Franklin St., Boston
New York Philadelphia Chicago

FRENIER'S
PATENT
SPIRAL PUMP
The best and most durable pump made.
NO VALVES. NO PISTONS. NO BUCKETS.
FOR ELEVATING
Slimes,
Tailings,
Crushed Ores
FOR
Feeding Jigs
Or any other use in concentrating mills, also for feeding sand in slot to gauges for
topping stone.
SEND FOR CIRCULARS
AND PRICES.

THOMSON
MANUFACTURING CO.

Machinists
Dies, Tools
and
Punch Press Work
Experimental Work

38 Chardon Street
BOSTON
A. LESCHEN & SONS ROPE COMPANY

Sole Manufacturers

PATENT FLATTENED STRAND

HERCULES WIRE ROPE

TOUGH, STRONG, SAFE, DURABLE
This is not a new brand of rope
It has been on the market for years
Also all kinds of
ROUND STRAND WIRE ROPE

Also LESCHEN CO.'S Patent
Aerial Wire Rope TRAMWAY

For Transportation of Ore, Dirt and Timber. Loads and Unloads Automatically
Low Cost of Operation and Maintenance.

Main Office . . . 920-922 N. First Street, ST. LOUIS, MO.

Branch Offices: 92 Centre St., New York, N. Y.; 47-49 South Canal St., Chicago, Ill.

THE ROEBLING CONSTRUCTION CO.

Manufacturers of

WIRE LATH

and contractors for

FIRE-PROOF BUILDING CONSTRUCTION

ANDREW W. WOODMAN (M.I.T '90)

AGENT

178 Devonshire St., Boston, Mass.

JAMES H. ROBERTS & CO

137 Portland St., BOSTON

Manufacturers of

ALL KINDS OF MACHINERY

Shafting, Pullers and Hangers
a Specialty

Factory
CAMBRIDGE
American TOOL AND MACHINE CO.
109 BEACH STREET, BOSTON

ENGINEERS, FOUNDERS MACHINISTS

MANUFACTURERS OF
Brass Finishers' Hand and Turret Lathes, Side Rests,
Chucks and Oil Separators, Hangers, Pulleys and Shafting,
General Machinery and Mill Work.

GARDNER KNAPP & COMPANY

Pattern & Model Making in all its branches

Experimental Work a Specialty. All kinds of Cutting and
Forming Dies for Metals. Also Estimates given on Special
Machinery. We also make a Specialty of the Manufacture
of Small Patented Articles.

LIGHT MACHINE WORK AND
MOULDS OF ALL KINDS

62 Sudbury St. Boston, Mass.

INGALLS & KENDRICKEN

Engineers and Contractors for
Steam and Hot Water Heating, Ventilating Apparatus
FOR PUBLIC BUILDINGS, SCHOOLS
CHURCHES, HOSPITALS
DWELLINGS, Etc.

80-82 SUDBURY STREET
Boston, Mass.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
BURDITT & WILLIAMS
Contractors and Dealers in
Artistic and Practical Hardware
SPECIAL REPRESENTATIVES of
P. & F. CORBIN The Largest Hardware Plant in the World
HARDWARE TO ORDER from Architects' Drawings.
PLANES, SAWS, EDGE TOOLS and everything for
Mechanics' Outfit — Standard Makes and Finest Quality
45 WAREHAM STREET
BOSTON, MASS
TELEPHONE CONNECTION

Cyrus T. Clark
Company
DAVID O. CLARK
Treasurer
Painters, Decorators
and
Hardwood Finishers

MOWRY & PHILLIPS
Business Established 1828
SMELTERS AND REFINERS
NEW AND OLD METAL DEALERS
PLUMBERS' SUPPLIES
New and Old Metals, Crucibles, all kinds of Babbitt Metal
and Solder. ® Manufacturers of Standard Ingot Brass
warranted A1 "Old Gold" Brand
105 & 107 NORTH ST. and 120 to 134 CROSS ST.
116 to 124 WEST FIRST ST., SO. BOSTON,
OFFICE, Cor. NORTH and CROSS STS.

BAEDER, ADAMSON & CO
Manufacturers of
GLUE, CURLED HAIR, FLINT PAPER
GARNET PAPER, E M E R Y PAPER, AND
EMERY CLOTH, GROUND FLINT
AND EMERY

Hairfelt for covering Boilers and
Pipes and for lining Refrigerators

STORES
Philadelphia, New York
Boston, Chicago

FACTORIES
Philadelphia, Newark, N. J.
Woburn, Mass.

Graduates of the Institute of Technology are
invited to acquaint themselves with the manu-
factures of the above firm.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
Evens & Howard Fire Brick Co.

Makers of High-Grade Standard and Culvert Pipe for Highway and Railroad Construction. Write us for our Lowest Delivered Prices.

Offices: 920 Market Street.

Factories: Howard Station.

Photographic Mounting

Photographs mounted by the process we use will not warp the mounts.

W. H. Lawrence

Trinity Place - - - - Boston

Soltaia M. Taylor,

Photographer and Dealer.


50 Bromfield Street,

Telephone 3757-2 Main.

Photographic Supplies for Amateurs, Cameras, Film Paper, etc.

157 Summer Street,

Telephone 1077-3 Oxford.

Boston, Mass.
NO JOB TOO SMALL—NONE TOO LARGE

The Presswork and Typography of this Book was Done by

The Heintzemann Press

of Boston


653-5 Atlantic Ave. Boston Telephones Oxford 1173 & 1273
Yes, I Inch in 1 Month.

Your Arm

CAN BE ENLARGED 1 INCH and strengthened 50 per cent in One Month, by using the HERCULES GRADUATED GYMNASRIC CLUB AND STRENGTH TESTER 5 minutes each day. It will develop and strengthen the arms, shoulders, chest, back, waist and hips in less than one-quarter of the time required by any other method, with or without apparatus. It induces sound slumber, rids you of rheumatism, writers’ cramp, constipation and indigestion. Makes the brain active and the complexion clear. The club can be used by the weak man and the strongest athlete. For men, women and children.

Write for descriptive pamphlet and price-list to

THE HERCULES CLUB CO.
Room A, 16 South Street, Boston, Mass.

R. R. GIBSON, INVENTOR.

Announcement.

I wish to call your attention to the fact that I have acquired the DRUG BUSINESS formerly conducted by James S. Dudley, 16 and 18 Park Square, and am prepared to do all kinds of Prescription Work and other business connected with a first-class up-to-date Pharmacy. Being a graduate of the Massachusetts College of Pharmacy, and having had many years of experience with the best apothecaries in Boston, including Melvin & Badger and S. A. D. Sheppard & Co., I feel confident that your interests in my line will be as well looked after as is possible. Hoping this will meet with your approval, I remain,

Yours respectfully,

JOHN FERRIN,

Apothecary,

16 and 18 Park Sq., Boston, Mass.

Badges and Medals.

Club Pins, Banners, Society Jewels, Class Pins, Engraving, Ribbon Badges, Souvenirs, Etc.

SEND FOR DESIGNS AND PRICES.

S. E. SPENCER,
No. 15 Cornhill, Boston, Mass.
ALBERT B. FRANKLIN,
Warming and Ventilating Apparatus
BY STEAM OR WATER

UNSURPASSED FACILITIES FOR SCIENTIFICALLY WARMING AND VENTILATING
PUBLIC BUILDINGS, CHURCHES, SCHOOLS, RESIDENCES, ETC.

SHEET METAL WORK A Specialty. BARNEY VENTILATING FANS
GALVANIZED IRON OR COPPER.

165 and 167 FORT HILL SQUARE,
BOSTON, MASS.

First in workmanship.
Quality, durability.

That describes our rings today, as it has for nearly 30 years.

Manufacturers of
SPINNING and TWISTER RINGS, RING HOLDERS, U. S. S.
TRAVELER CLEANERS, ECONOMICAL TRAVELER CUPS.

WHITINSVILLE SPINNING RING CO. Whitinsville, Mass., U. S. A.

C. L. BERGER & SONS
Successors to BUFF & BERGER
Improved Engineering and Surveying Instruments

No. 9 Province Court, Boston, Mass.

They secure in their instruments: Accuracy of division; Simplicity in manipulation; Lightness combined with strength; A chromatic telescope, with high power; Steadiness of Adjustments under varying temperatures; Stiffness to avoid any tremor, even in a strong wind, and thorough workmanship in every part.

Their instruments are in general use by the U. S. Government Engineers, Geologists, and Surveyors, and the range of instruments, as made by them for River, Harbor, City, Bridge, Tunnel, Railroad and Mining Engineering, as well as those made for Triangulation or Topographical Work and Land Surveying, etc., is larger than that of any other firm in the country.

ILLUSTRATED MANUAL AND CATALOGUE SENT ON APPLICATION.
MACASKILL & CO.,

34 BEACH STREET,

BOSTON.

MACHINERY DESIGNED AND BUILT.

MOULD AND MODEL WORK.

EXPERIMENTAL AND GENERAL MACHINE WORK.

A. W. ISELE & SON,

MANUFACTURERS OF ALL KINDS OF

TOOLS and SUPPLIES

FOR

Railroads, Contractors, Streets and Water Dept's of Cities and Towns.

Masons, Bricklayers, Plumbers, Roofers and Machinists, Etc., Etc.

Contractors' Picks, Paving Hammers and Rammers, Granite Cutters' Bush Hammers, Plumbers' Soldering Irons and Calking Tools, Roofers' Bars, Slaters' Hammers, Rippers, Etc.

DIE FORGING, COIL SPRINGS AND STEEL WORK IN GENERAL.

Nos. 51-53 Pitts Street, Boston.

Telephone, 1743 Haymarket.

BAY STATE HARDWARE CO.

JOBBERS AND RETAILERS OF

Builders' Hardware

Cutlery and Tools, Electrical Supplies.

PAINTS, OILS, VARNISHES AND BRUSHES.

1321 Washington Street, BOSTON, MASS.

Telephone, 39 Tremont.

BUFF & BUFF MFG. CO.

MAKERS OF THE

"Buff"

PRECISE TRANSITS ... and LEVELS.

TRIANGULATION TRANSITS for

M. I. T., HARVARD,

U.S. Govt., Etc.

Send for Catalogue No. 31.

Jamaica Plain Sta.

BOSTON, Mass.

IN ANSWERING ADVERTISEMENTS PLEASE MENTION The Technique
KIDDER
TRADE MARK.
29 PEARL STREET, BOSTON, MASS.
MANUFACTURER OF
BELTING,
PACKING AND MILL SUPPLIES.
PROPRIETOR OF
Kidder Plumbago and Golden Rod (red sheet) Joint Packing, Orient and Black Hawk and Pavonia Piston Packings, “Junitar” (for leather or canvas), and “Grapa” (rubber) Belt Dressing, S-K-MO Lace Leather, Starine Metal Polish.
GENERAL NEW ENGLAND AGENTS FOR THE
GANDY COTTON STITCHED BELTING
And Smith’s Patent Belt Fasteners.

MANVILLE COVERING CO.,
MANUFACTURERS OF
MANVILLE’S PATENT SECTIONAL COVERING
For Steam, Hot and Cold Water Pipes, Boilers, Etc.
ALL GRADES OF SECTIONAL AND PLASTIC COVERING FOR HIGH AND LOW PRESSURE.
Asbestos and Magnesia Cement, Wool Felt and Frost Proof Coverings.
SPECIALTIES IN FURNACE PIPE COVERINGS OR HOT AIR BRINE AND AMMONIA PIPE COVERINGS.
283 PITMAN ST., PROVIDENCE, R. I.

HUEY BROTHERS,
Engineers and Contractors
FOR ALL KINDS OF
HEATING AND PLUMBING.
No. 35 HARTFORD STREET,
TELEPHONE. BOSTON, MASS.

Ashton Pop Valves.
Guaranteed to Give Perfect Satisfaction.
Made of Best Material.
Insuring greatest Efficiency and Durability.
Send for Catalogue T.

Ashton Steam Gages
have Non-Corrosive Movements and Seamless Drawn Tubes; are Accurate, Durable, and Strictly High Grade.
THE ASHTON VALVE CO.
271 Franklin Street,
Branches: NEW YORK, CHICAGO, LONDON, BOSTON, MASS.
Billiard, Pool Table . . Price $15

Portable Billiard and Pool Board. 20 Games with Cues, Balls, Pins, etc. Sizes 30 x 60 and 36 x 72 inches. Weighs 26 to 39 lbs. Will set on any table in any room or on Lawn or Veranda. Finished like a piano, rich mahogany, hand polished, bronze trimmed, green broadcloth, 16 best pool balls, 4 cues, 4 leveling legs, 4 pocket covers, book of rules, etc. Packed compactly, set away in closet. Patent cushions, steel braced, can never warp. This is a Fine Table on which experts play the most scientific games. Provide healthful amusements at home for your family and friends. This has been the King of Games for 50 years. Sent on trial. See our Bradstreet rating. Write for addresses of our local agents. Prices and Colored Plates free.

E. T. BURROWES CO., 101 Free St., Portland, Me.
New York Salesrooms, 277 Broadway.
Also Largest Mfrs. Fine Wire Fly Screens.
Catalogue F.

THE
Damon Safe and Iron Works Co.

BURGLAR PROOF VAULTS,
BURGLAR PROOF SAFES,
FIRE PROOF VAULT DOORS,
BANK LOCKS.

Prompt attention paid to Inspection and Repairing Defective Locks and Bolt Work of any make.

OFFICE AND WORKS:
Cor. Main and First Streets,
CAMBRIDGE.

OPEN DAY AND NIGHT
ROYAL DAIRY LUNCH

11 and 12 Park Square
BOSTON, MASS.

A. C. STONE, Proprietor
C. H. MANSFIELD, Manager
THIS book was printed by The Heintzemann Press Boston