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</tbody>
</table>
A civilization turns the wheels of time, new industries and occupations arise as they are needed. Thus, also, as a college grows and develops, its needs are supplied from one source or another.

Our Alma Mater, in its twenty years of rapid growth, has, until recently, almost overlooked the great importance of social claims and advantages. Of late years the classes have seen more clearly the great benefit to be derived from the intimate social connection of several hundred students, coming from the best families in all parts of our country.

The Class of '87 has tried to do all in its power to advance social life among its members; so it was but natural that we should be the class to start such a thing as a college annual.

When the pioneer students in high scientific training were at the Institute, there was no need of anything in the line of an annual; but now that hundreds of brave hearts beat where there were but a small number a few years ago, there is a demand for such an article. Fraternities have planted themselves, local societies and eating-clubs have sprung up, the interest in athletic sports is on the increase, the "cage" has been built, and things are booming generally.

Therefore, we present for your favorable reception the first annual ever attempted at the Institute—Technique.

In introducing ourselves to the public, it may be well to prevent wrong impressions by stating, first, what we do not intend to be, and, second, what we mean to accomplish.

We are not
To take the place of the Catalogue; that requires study.
To rival The Tech; "United we stand, divided we fall."
The publication of one fraternity; equal rights are given all.

We trust that we are not
Too smart, too funny, too cutting; or, on the other hand, too dry, too stupid, or too foolish.
A failure. May it be the verdict of each one who reads.
TECHNIQUE.

WE ARE
For each student or friend of the Institute.
To help digestion, by a hearty laugh. A jest will sometimes do
where all else would fail.
A class affair, yet most truly of college interest; for all classes are
represented, and no pains have been spared to make this first
TECHNIQUE replete with everything interesting or amusing to our
average student.

Just here let us say a word to '88 and '89, and also to all future classes.
Don't give up the TECHNIQUE! We have founded what will be compara-
tively easy for you to continue. If each class will make some improve-
ment, in a few years no annual can compare with our TECHNIQUE.
With regard to the matter we present, it will speak best for itself.
Yet a few words by way of introduction may not be amiss. At the first
glance, you say there is not much material at the Institute out of which
to form an annual; yet we are sure that if you had undertaken the task
yourself, you would have been surprised at the wide extent of matter
from which to draw.

Just here lies one of our greatest difficulties. Nearly eight hundred
professors and students, scattered all over Boston and vicinity, meeting
only in class-room, shop, and laboratory, with abundance of work for
hand and brain, truly have but few things in common of a social or jovial
nature. But you may ask, standing side by side at work day after day,
are there not many hits given and taken worthy of repetition? Yes, in-
deed; but they are mostly local, and only the comparatively few would
understand them.

We have chosen from the mass of material what, in our judgment,
seemed best calculated to give satisfaction. You may not agree with us
fully in our selection; but we ask you, indulgent reader, to remember
that we are but students, and that this is TECHNIQUE No. 1.

We hope that all fair criticisms will be made known, so that future
classes may steer clear of any rocks which have hindered our course.

Many things, such, for instance, as sketches of the work done in
the various departments, though very interesting in themselves, we have
deemed best to omit, since they belong rather to a comprehensive history
of the Institute than to an annual publication.

College boys must look to themselves for amusement in small places,
while in large cities each student can find what suits his individual taste.
It can no longer be said, however, that there is a great lack of college
or class feeling at the Institute. Though there is much to separate us,
little by little we have conquered and met as classes and as "Techs."

Since one of the good old traditions of the Institute is, that professors
and students are together walking the road to knowledge, we have no
tales to tell of ill-timed discipline or forced obedience. One of the greatest
reasons for the remarkable growth of the Institute in its twenty years' existence, is the old and firm belief held here, that the training of our youth should make men of them.

Men must stand on their own legs; and it is fully as important to impress up and down firmness and decision on young minds, as to furnish them with logical, mathematical brains to work out problems, or to give social culture to enable them, as men, to handle others in busy life. We are thankful that we are individually responsible for success or failure.

To our President we wish to express heartfelt thanks for the noble work he has done for our college, and also for his courteous aid to the Board of Editors.

We thank all professors and students who have assisted us in various ways, and hope they will be fully paid by the thought of the enjoyment they have given others.

To all we say, "Bear your share of the expense by taking a Technique. And by making the first in every way a success, we shall see a long line of Techniques stretching in perspective toward the future."

The Editors.
Calendar

For 1885-86.

School year began . . . . . . . . . . . . . Monday, Sept. 28, 1885.
Second term will begin . . . . . . . . . . . . . Tuesday, Feb. 2, 1886.
Degrees conferred . . . . . . . . . . . . . . . . . Tuesday, June 1, 1886.
First Entrance Examinations . . . . . . . . . . . Thursday, June 3, 1886.
Second Entrance Examinations . . . . . . . . . Friday, June 4, 1886.
Examinations for Advanced Standing . . . . . . . . . . . . . . . . . . . . . . Wednesday, Sept. 22, 1886.
School year of 1886-87 will begin . . . . . . . Monday, Sept. 27, 1886.

For 1886-87.

School year will begin . . . . . . . . . . . . . Monday, Sept. 27, 1886.
Second term will begin . . . . . . . . . . . . . Tuesday, Feb. 1, 1887.
Degrees conferred . . . . . . . . . . . . . . . . . Tuesday, May 31, 1887.
First Entrance Examinations . . . . . . . . . . . Thursday, June 2, 1887, and Friday, June 3, 1887.
Second Entrance Examinations . . . . . . . . . . . Tuesday, Sept. 20, 1887, and Wednesday, Sept. 21, 1887.
Examinations for Advanced Standing . . . . . . . . . . . . . . . . . . . . . . Thursday, Sept. 22, 1887.
School year of 1887-1888 will begin . . . . . . . Monday, Sept. 26, 1887.
REGISTER OF OFFICERS AND STUDENTS
OF THE M.I.T
FOR THE YEAR
1885-1886.
President.

FRANCIS A. WALKER.

Treasurer.

JOHN CUMMINGS.

Secretary.

LEWIS WM. TAPPAN, JR.

MARSHALL P. WILDER.
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EDWARD ATKINSON.
JOHN D. RUNKLE.
CHARLES L. FLINT.
JOHN C. HOADLEY.
ALEXANDER H. RICE.
M. DENMAN ROSS.
FREDERICK W. LINCOLN.
JAMES L. LITTLE.
WILLIAM ENDICOTT, JR.
SAMUEL K. LOTHIROP.
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SAMUEL D. WARREN.
HENRY P. KIDDER.
AUGUSTUS LOWELL.
HOWARD A. CARSON.

CHARLES J. PAINE.
CHARLES FAIRCCHILD.
DAVID R. WHITNEY.
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HENRY D. HYDE.
ALEXANDER S. WHEELER.
FRANCIS H. WILLIAMS.
BENJAMIN P. CHENEY.
JAMES P. TOLMAN.
HOWARD STOCKTON.
ELIOT C. CLARKE.
CHARLES T. HUBBARD.
NATHANIEL THAYER.
CHARLES F. CHOATE.
HENRY SALTONSTALL.
HENRY L. PIERCE.
HIRAM F. MILLS.
PERCIVAL LOWELL.
STANTON BLAKE.
ARTHUR T. LYMAN.
FREDERICK L. AMES.

On the Part of the Commonwealth.

His Excellency, Gov. GEORGE D. ROBINSON.
Hon. MARCUS MORTON, Chief-Justice of the Supreme Court.
Hon. JOHN W. DICKINSON, Secretary of the Board of Education.
THE FACULTY

President,
FRANCIS A. WALKER, Ph.D., LL.D.

JOHN D. RUNKLE, Ph.D., LL.D.  Walker Professor of Mathematics.
WILLIAM P. ATKINSON, A.M.  Professor of English and History.
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ROBERT H. RICHARDS, S.B.  Professor of Mining Engineering and Metallurgy.
WM. RIPLEY NICHOLS, S.B.  Professor of General Chemistry.
CHARLES P. OTIS, A.M., Ph.D.  Professor of Modern Languages.

ALPHEUS HYATT, S.B., Custodian of Boston Society of Natural History  Professor of Zoology and Palaeontology.
WILLIAM H. NILES, Ph.B., A.M.  Professor of Geology and Geography.
CHARLES R. CROSS, S.B.  Thayer Professor of Physics.
GAETANO LANZA, S.B., C.E.  Professor of Theoretical and Applied Mechanics; in charge of the Department of Mechanical Engineering.
GEORGE L. VOSE, A.M., C.E.  Hayward Professor of Civil and Topographical Engineering.
THEODORE M. CLARK, A.B.  Professor of Architecture.
THOMAS M. DROWN, M.D.  Professor of Analytical Chemistry.
EUGENE LETANG  Associate Professor of Architecture.
JULES LUQUIEN, Ph.D.  Associate Professor of Modern Languages.
WILLIAM T. SEDGWICK, Ph.D.  Associate Professor of Biology.
SILAS W. HOLMAN, S.B.  Associate Professor of Physics.
WEBSTER WELLS, S.B.  Associate Professor of Mathematics.
LEWIS M. NORTON, Ph.D.  Associate Professor of Organic and Industrial Chemistry.
WILLIAM O. CROSBY, S.B.  Assistant Professor of Mineralogy and Petrology.
GEORGE F. SWAIN, S.B.  Assistant Professor of Civil Engineering.
ALFRED E. BURTON, S.B.  Assistant Professor of Topographical Engineering.
PETER SCHWAMB, S.B.  Assistant Professor of Mechanism and Director of the Workshops.
CECIL H. PEABODY, S.B.  Assistant Professor of Steam Engineering.
THOMAS E. POPE, A.M.  Assistant Professor of Analytical Chemistry.
LINUS FAUNCE, S.B.  Assistant Professor of Drawing.

Secretary.
JAMES P. MUNROE, S.B.
Henry K. Burrison, S.B. . . . Instructor in Mechanical Drawing.
Ellen H. Richards, A.M., S.B. Instructor in Sanitary Chemistry.
Arthur N. Wheelock, A.M. Instructor in English.
Dwight Porter, Ph.B. . . . Instructor in Civil Engineering.
Frederick W. Clark, S.B. Instructor in Mining and Metallurgy.
Samuel G. Stephens Instructor in Mechanical Engineering.
S. Homer Woodbridge, A.M. Instructor in Physics, and Lecturer on Ventilation.
Gen. Hobart Moore Instructor in Military Tactics.
William W. Jacques, Ph.D. Instructor in Telegraph Engineering.
Howard V. Frost, S.B. Instructor in General Chemistry.
William Cook, A.M. Instructor in Modern Languages.
Joseph J. Skinner, Ph.D. Instructor in Mathematics.
Herbert C. King, Jr., S.B. Instructor in Architecture.
Edward G. Gardner, Ph.D. Assistant in Biology.
Charles A. French, S.B. Assistant in Mathematics.
George H. Barton, S.B. Assistant in Geology.
George R. Underwood, S.B. Assistant in Industrial Chemistry.
Frederic L. Bardwell, B.S., S.B. Assistant in General Chemistry.
Augustus H. Gill, S.B. Assistant in General Chemistry.
George F. Knapp, S.B. Assistant in General Chemistry.
William L. Puffer, S.B. Assistant in Physics.
Arthur J. Purinton, S.B. Assistant in Mechanical Engineering.
Harry W. Tyler, S.B. Assistant in Mathematics.
Charles W. Eaton Assistant in Drawing.
Alfred L. Fitch, S.B. Assistant in Mechanical Engineering.
Frank H. Lord, S.B. Assistant in Drawing.
Allyne L. Merrill, S.B. Assistant in Mechanical Engineering.
Newbert M. Randall, S.B. Assistant in Mining and Metallurgy.
TECHNIQUE.

HENRY P. TALBOT, S.B. . Assistant in Chemical Analysis.
HENRY MARTIN, S.B. . Assistant in Chemical Analysis.
FRANK A. PICKERNELL, S.B. Assistant in Mechanical Engineering.

LECTURERS FOR THE CURRENT YEAR.

GEORGE W. BLODGETT, S.B. {Lecturer on the Application of Electricity to Railway Working.
HENRY M. HOWE, A.B., S.B. Lecturer on Metallurgy.
C. HOWARD WALKER Lecturer on Decoration.
EMIL CARLSEN Lecturer on Water-Color and Sketching.
CHARLES W. HINMAN, S.B. {Lecturer on the Manufacture of Illuminating Gas.
CHARLES S. MINOT, D.Sc. Lecturer on Biology.

OFFICERS OF INSTRUCTION OF THE SCHOOL OF MECHANIC ARTS.

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Director.
PETER SCHWAMB, S.B.

CLARENCE W. FEARING, A.M. Instructor in English and Mathematics.
CHARLES L. ADAMS Instructor in Drawing.
WILLIAM H. PICKERING, S.B. Instructor in Physics.
WILLIAM COOK, A.B. Instructor in French.
CHARLES H. STEPHENSON Instructor in Machine-Tool Work.
THEODORE B. MERRICK Instructor in Wood Work.
JAMES R. LABOURTH Instructor in Forging.
JAMES G. LANGDON Assistant in Wood Work.
ROBERT H. SMITH Assistant in Machine-Tool Work.
OSCAR L. PATCH Assistant in Forging.
A BRIEF SKETCH.

TECHNICAL, or technological, education, has become a controlling factor in the world's industrial progress. This education practically dates from the establishment of the Polytechnic School of Paris, founded in 1794. Its introduction in this country is more recent. Besides the Military Academy at West Point, N. Y., founded in 1802, and the Naval Academy at Annapolis, Md., founded in 1845, the first successful applied science school was the Polytechnic Institute at Troy, N. Y., founded by Stephen Van Rensselear, in 1826. From this time till 1847, when the Lawrence Scientific School was established at Cambridge, but little apparent progress was made. This step created the new impulse which led to the rapid development of scientific technical education in this country during the past thirty years. The Chandler Scientific School of Dartmouth College followed in 1852, the Agricultural College at Lansing, Mich., in 1855, the reorganization of the scientific department of Yale College into the Sheffield Scientific School in 1860, and the Massachusetts Institute of Technology in April 10, 1861, the date of its charter.

The period from 1850 to 1860 was mainly one of discussion and preparation, and led to the crowning step, the Act of Congress passed in 1862, giving lands to the States,—30,000 acres for each member of Congress, including Senators,—to aid in the establishment in each of a college, which, while not excluding other subjects, should provide for instruction in Agriculture, the Mechanic Arts, and Military Science. Between forty and fifty colleges and scientific schools have been aided by this land-grant fund, which has also been the means of large grants from States, and a stimulus to the generosity of individuals in aid of these institutions.

While the filling of that portion of the city of Boston now known as the "Back Bay" was in progress, in which the Commonwealth had
a large interest, it was suggested that a portion of these lands should be devoted to the promotion of science and scientific education.

A few gentlemen, residing in Boston and vicinity, held many meetings for the purpose of discussing and maturing plans for carrying this idea into effect. The matter finally took tangible shape in a paper prepared by Prof. William B. Rogers, the first President of the Institute, entitled, "Objects and Plan of an Institute of Technology, Including a Society of Arts, a Museum of Arts, and a School of Industrial Science." This paper was read by Prof. Rogers at a meeting held in the rooms of the Board of Trade, Oct. 5, 1860, and forms the basis of the charter which was granted in an act of the Legislature passed April 10, 1861.

The Act of Incorporation recites, that "William B. Rogers (and others named), their associates and successors, are hereby made a body corporate, by the name of the MASSACHUSETTS INSTITUTE OF TECHNOLOGY, for the purpose of instituting and maintaining a 'Society of Arts,' a 'Museum of Arts,' and a 'School of Industrial Science,' and of aiding generally, by suitable means, the advancement, development, and practical applications of science in connection with arts, agriculture, manufactures, and commerce."

It also grants perpetual use of one square of land on the Back Bay, two thirds to the Massachusetts Institute of Technology, and one third to the Boston Society of Natural History, coupled with two conditions: first, that neither should ever cover more than one third of its part of the square with buildings; and, second, that if the appreciation of the lands adjoining the grant was not sufficient to cover its appraised value, the two corporations should make up the deficiency.

The succeeding Legislature repealed this condition, thus admitting that the sufficient appreciation had taken place.

The first meeting was held April 8, 1862, at the rooms of the Board of Trade, and was organized by the choice of F. W. Lincoln as Chairman, and John D. Runkle as Secretary. Prof. Rogers presented the Act of Incorporation, and a code of by-laws for adoption; and after the organization an election of officers resulted in the choice of Prof. Rogers as President of the Massachusetts Institute of Technology.

Rooms were rented in Mercantile Hall, a building on Summer Street, which was destroyed by the great fire of 1872. Here the Society of Arts held its semi-monthly meetings, and here, also, the School of Industrial Science was begun in February, 1865, with a class of twenty-seven students and three or four teachers. The chemical department was removed to the new laboratory in the basement of Rogers' Building, in the spring of 1866; and the remaining departments at that time organized, together with the Society of Arts, followed in the fall of the same year.

Thus far no formal steps have been taken in relation to the third element in the plan of organization—a museum of the industrial arts.
While the Institute possesses varied and valuable collections, it has been found best for the purposes of the school to place the several portions in close connection with the departments of instruction to which they relate.

Two less advanced departments, not specially provided for in the early plan, have since been added: one, the Lowell School of Practical Design, established in 1873, in co-operation with the Trustee of the Lowell Institute; and the other a School of Mechanic Arts, established in 1876.

Such is a very brief statement of the beginnings of the Massachusetts Institute of Technology, which in twenty years has grown to be one of the leading schools of its kind in the world.

J. D. R.
Abbreviations

I. Civil Engineering.
II. Mechanical Engineering.
III. Mining Engineering.
IV. Architecture.
V. Chemistry.
VI. Electrical Engineering.
VII. a. Natural History.
VII. b. Biology, Preparatory to Medical Studies.
VIII. Physics.
IX. General Course.
* Special Students.
<table>
<thead>
<tr>
<th>Graduate Students</th>
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<tbody>
<tr>
<td>Atherton, Walter C. E.</td>
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<tr>
<td>Lawrence Scientific School</td>
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<tr>
<td>Atkinson, Charles H., A.B.</td>
</tr>
<tr>
<td>Harvard University</td>
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<tr>
<td>Blake, Edward, Ph.B.</td>
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<tr>
<td>Sheffield Scientific School</td>
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<tr>
<td>Brainerd, W. H., B.A.</td>
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<td>Iowa College</td>
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<td>Converse, Charles H., A.B.</td>
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<td>Harvard University</td>
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<tr>
<td>Cushing, William C., B.A.</td>
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<tr>
<td>University of New Brunswick</td>
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<tr>
<td>Doak, John E., Ph.B.</td>
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<tr>
<td>University of the Pacific</td>
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<td>Folwell, Amory P., A.B.</td>
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<td>Brown University</td>
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<td>Foss, Fred E., A.B.</td>
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<td>Bates College</td>
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<td>Fox, Frederick, Jr., S.B.</td>
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<tr>
<td>Mass. Institute of Technology</td>
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<tr>
<td>University of Wooster</td>
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<td>Gardner, Charles H., B.S.</td>
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<td>Columbia University</td>
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<td>King, Thomas C., A.B.</td>
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<td>Mahon, William L'E., Ph.B.</td>
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<td>Patterson, Geo. W., Jr., A.B.</td>
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<td>Yale College</td>
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<td>Talbot, Marion, A.M</td>
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<td>Thornbury, William G., B.S.</td>
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<tr>
<td>Viele, Maurice A., B.S.</td>
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<td>Hobart College</td>
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Graduate Students, 15
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<th>Name</th>
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<tr>
<td>Aborn, George P., II</td>
<td>Wakefield</td>
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<td>Anthony, Arthur, III</td>
<td>Boston</td>
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<td>Bartlett, Dana P., VI</td>
<td>Boston</td>
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<tr>
<td>Batcheller, Birney C., II</td>
<td>Wallingford, Vt.</td>
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<tr>
<td>Blake, Edward, Ph.B., VI</td>
<td>New Haven, Conn.</td>
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<tr>
<td>Borden, Richard P., II*</td>
<td>Fall River</td>
</tr>
<tr>
<td>Brainerd, William L., IV</td>
<td>So. Englewood, Ill.</td>
</tr>
<tr>
<td>Burgess, John K., II*</td>
<td>Dedham</td>
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<tr>
<td>Burlingham, Chas. L., III</td>
<td>Chicago, Ill.</td>
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<tr>
<td>Chadbourne, Wm. H., Jr., III</td>
<td>Wilmington, N. C.</td>
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<tr>
<td>Church, William L., VI*</td>
<td>South Boston</td>
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<td>Clifford, H. E. H., VI</td>
<td>Chicago, Ill.</td>
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<tr>
<td>Cobb, Louis R., I.</td>
<td>Malden</td>
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<td>Crane, Frank H., VI</td>
<td>Winchester</td>
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<td>Cutter, Louis F., I</td>
<td>Winchester</td>
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<tr>
<td>Doe, Charles C., VII.a</td>
<td>Boston</td>
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<tr>
<td>Doolittle, Orin S., V.</td>
<td>Wallingford, Ct.</td>
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<td>Duff, James C., V.</td>
<td>Charlestown</td>
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<td>Farmer, Geo. W., II</td>
<td>Rutland, Vt.</td>
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<td>Boston</td>
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<td>Fox, Frederick, Jr., S.B., V</td>
<td>Portland, Me.</td>
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<td>Garfield, Alexander, S., II</td>
<td>Lexington</td>
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<td>Hathaway, D. L., II*</td>
<td>Rochester</td>
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<td>Higgin, Edward E., VI</td>
<td>Chelsea</td>
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<tr>
<td>Ingalls, Walter R., III</td>
<td>Lynn</td>
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<tr>
<td>Jordan, William F., I</td>
<td>Auburn, Me.</td>
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<tr>
<td>Kenney, C. Belle, V.</td>
<td>East Boston</td>
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<tr>
<td>Leach, Albert E., II</td>
<td>Newtonville</td>
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<td>Locke, Frank L., I.</td>
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<td>Low, Wilson H., V.</td>
<td>Brookline</td>
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<td>Lufkin, Elgood C., II*</td>
<td>Titusville, Pa.</td>
</tr>
<tr>
<td>Lynde, James P., III</td>
<td>Athol</td>
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<tr>
<td>Mahon, Wm. L'E., Ph.B., II</td>
<td>Boston</td>
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<tr>
<td>Name</td>
<td>Location</td>
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<tr>
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<tr>
<td>McKim, Alexander R., I.</td>
<td>Jamaica Plain</td>
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<tr>
<td>Merrim, Harry B., I.</td>
<td>Fort Scott, Kan.</td>
</tr>
<tr>
<td>Merrim, Henry P., VI.</td>
<td>Lawrence</td>
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<tr>
<td>Miller, Edward F., II.</td>
<td>Cambridge</td>
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<tr>
<td>Mumford, Edgar H., II.</td>
<td>Dorchester</td>
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<tr>
<td>Neave, Joseph S., II*</td>
<td>Cincinnati, O.</td>
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<td>Nye, George H., I*</td>
<td>New Bedford</td>
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<td>Pierce, Edward L., Jr., II.</td>
<td>Milton</td>
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<tr>
<td>Prescott, Howard B. S., IV*</td>
<td>Arlington</td>
</tr>
<tr>
<td>Putnam, Frederick W., IX*</td>
<td>Waterville, N. Y.</td>
</tr>
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<td>Reynolds, George F., II.</td>
<td>Evanston, Ill.</td>
</tr>
<tr>
<td>Richardson, Charles F., II.</td>
<td>Brooklyn, N. Y.</td>
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<td>Russell, L. K., V.*</td>
<td>Arlington</td>
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<td>Seavey, John F., II.</td>
<td>Boston</td>
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<td>Simpson, James E., III.</td>
<td>Lawrence</td>
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<td>Young, Fred R., III</td>
<td>Brookline</td>
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</table>

**Seniors, 67.**
TECHNIQUE.

CLASS OF '86

OFFICERS.
President.
FRANK L. LOCKE.
Vice-President.
H. E. H. CLIFFORD.
Secretary.
H. P. MERRIAM.
Historian.
J. E. SIMPSON.
Treasurer.
T. R. FOSTER.

HISTORY.

"Nature that made thee, with herself at strife,
Saith that the world hath ending with thy life."

We are, if nothing else, a modest class. Any statement made in our favor, may be considered as underdrawn rather than overdrawn, and may be taken as such without further investigation. Ergo, look no deeper into my assertions, but accept them as written.

We are a brilliant class—in fact, the most brilliant that our institution has ever seen. Our professors tell us this—every one tells us this. Fresh, and Soph. pass us with look of envy on their faces.

We are a progressive class. From the moment that we threw away the nursing-bottle and the rattle we have "faced the sunrise." Admirers who have been following us about for the past three years, are now wearing diamonds.

Many of our deeds have attracted comment far and wide. We are the first class that did not give a Freshman ball. We refused to let the upper classmen bask in female loveliness at our expense, while we stood by as trembling wall-flowers, "shaken by the autumn wind." The upper
classmen, aforesaid, jeered at us at first, and carried transparencies at our expense, but gradually edged nearer and nearer to a very large hole, and finally crawled in. Since then, they have pulled the hole in after them. We evidently gave the Freshman ball business a "prolonged push," and '85 was the last lamb to be shorn. Ever since that time the Freshmen have followed in our footsteps, veering neither to the right nor to the left. Thus we see how great minds predominate.

We are a versatile class—capable of filling any position to which we are called, and that, too, "to the Queen's taste." Some of our number have been known to wrestle all day with vexing problems in mathematics, chemistry, etc.; and then at night to attitudinize and pirouette in tin tights and gilded helmets before the footlights.

Our beauty would call for extended comment did space and modesty permit. We are all heroes for a Southworth excepting one—she's a heroine.

In Athletics we have done good work, and intend to do more. In this we have filled a "long-felt want." We have made records that will stand for some time—unless they are beaten. Our tug-of-war team just "arractra le métier de boulanger" or, in plain English, "yanked the bakery." They also yanked the medicals—off the cleats.

The only sad thought that comes to me in writing this short sketch, is that the members of '86 are soon to part. In thinking of this my eyes become dimmed, and I seem to look forward through the six short months that remain to us. My companions are standing about me "on the threshold" with parchment in hand. The last, sad hand-shaking is going on—the last farewell is being said. "There's rosemary" for underclassmen, too,—"that's for remembrance." My classmates are preparing to scatter to the four corners of the earth—"Hush! draw the curtain."
IN MEMORIAM.

FRANCIS E. BACON, JR.
CLASS OF '87.
Died at St. Augustine, Florida, March, 1885.

JAMES RAY BALLANTYNE,
CLASS OF '87.
Died at Tilton, New Hampshire, September 15, 1885.
<table>
<thead>
<tr>
<th>Name</th>
<th>City 1</th>
<th>City 2</th>
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<td>Adams, Henry S., I.*</td>
<td>Cambridge</td>
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<td>Bartlett, Sidney R., VII.6</td>
<td>Boston</td>
<td>13 Arlington St.</td>
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<td>Waltham</td>
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<td>Milford, N. H.</td>
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<td>Newburyport</td>
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<td>1507 Washington St.</td>
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<td>Bowles, Stephen W., Jr., VI</td>
<td>Springfield</td>
<td>349 Columbus Ave.</td>
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<td>Westford</td>
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<td>Rochdale</td>
<td>2 Ashburton Pl.</td>
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<td>Thomaston, Me.</td>
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<td>Columbia, Tenn.</td>
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<td>Chicopee Falls</td>
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<td>St. John, N. B.</td>
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</tbody>
</table>
TECHNIQUE.

TWOMBLY, ALEXANDER H., II. Boston . . . 39 High St.
VARNEY, WILLIAM W., II.* Philadelphia, Pa. 364 Columbus Ave.
WAKEFIELD, F. MANTON, IV.*. St. Paul, Minn. 159 Warren Ave.
WALKER, SToughton, VII.* Boston . . . 237 Beacon St.
WHITE, J. FOSTER, V.* Brookline . . . Brookline.
WHITMORE, WALTER G., VI. Plymouth . . . Plymouth.
WHITNEY, GRANGER, III. Beverly . . . Beverly.
WHITNEY, WILLIAM A., I. Boston . . . 75 Kendall St.

Juniors, 132.
OH, WELL, WE WERE FRESHMEN THEN!
TECHNIQUE.

CLASS OF '87

COLORS, ORANGE AND FRENCH BLUE.

OFFICERS.

President.
FREDERICK C. TODD.

Senior Vice-President.
H. C. SPAULDING.

Junior Vice-President.
S. STURGES.

Secretary.
GEO. F. CURTISS.

Treasurer.
GEO. O. DRAPER.

HISTORY.

Kind reader, if a momentary glance at the word "history" has not already caused you to pass quickly by this page, with half-defined thoughts of atlases, ethnological charts, Freeman's Historical Sketch, Atkinson's Spasms of Modern History, etc., etc., crowding around you, take with me, I beg, a hasty glance at the musty volumes which hold a record of '87's greatness.

There are only two at present. The third is now being written, and will be completed about the first of next June. Taking up the first volume, we find that the earliest date on its pages is the 24th of September, 1883. On this, the natal day of the class of '87, the hall of the Rogers Building was filled with boys. There were big boys and little boys, old boys and young boys, fat boys and lean boys, good boys and—no, there never was a bad boy in '87. So much for the boys. As for the girls,—well, '87 always will have a tender place in its heart for
the one member whose name used to be, and has since been Missed in
the roll-call. Undoubtedly she broke more hearts than test-tubes; but
inasmuch as she has promised to cherish one of the former inconveniences for life, we can only regret that our class can never Holden other
such as she.

Well, attendance papers were duly filed, and the members of embryo
'87 found themselves in Huntington Hall. After the usual brief and
ergetic addresses of welcome by the President (after a custom which,
we are sorry to see, has been omitted this year), the class began an
exhaustive course in bulletin-boards, which is not yet completed.
The usual delay took place before a few enterprising gentlemen
posted a notice for a class-meeting, at which a temporary organization
was effected. The regular election, a few days after, resulted in the
choice of Mr. G. W. Davenport,* of Fall River, as the executive head of
the class.

Not long after the choice of class officers, the enterprising spirit of
'87 was shown in the formation of a class society, to be non-secret, and
open to all courses alike, providing that the candidate was a member of
'87. Mr. Corns, of Ohio, filled the chair of this society in a very ample
manner; but the duties were so wearing that he has since been obliged
to leave the Institute.

As the Freshman ball question is probably mentioned elsewhere at
some length, we will pass it over in silence, assuring the reader that
the class did the right thing, as usual. '87 in its Freshman year adopted
the present uniform for the first year military drill, and under the skillful
management of Gen. Moore, turned out the best and largest battalion
that the Institute had hitherto had.

The rise and fall of the semi-annuals caused a number of our shinning
lights to accept lucrative situations, which they had "only been wait-
ing till the end of the year to take, you know," while some were averse
to being tied down to any particular subject, and so entered in the fall
as special students. The class, however, retained its general character-
istics, and took the lead in athletics, as well as in the concert hall, and,
we hope, the recitation-room.

The Class-President for our Sophomore year was Mr. E. A. Haskell.
We have been obliged to lose this gentleman, also, from our midst, on
account of a pressing engagement. (No cards.) We extend our hearty
congratulations. What the effect will be on the present Class-President
remains to be seen. We have engaged a private detective, and hope to
keep him with us another year.

Mr. Shepahd, the President of the Society of '87, was unanimously
re-elected for the present year. Further comment is unnecessary.

*Mr. D. has since left for parts unknown. It has been darkly hinted that he is at
present in Lynn.
Last year's class supper was a grand success, and the class entered heartily into the torchlight parade, and cut recitations to a man the next day. The flood of eloquence which was poured out upon the occasion of the planting of the class tree, seems to have had a depressing effect on the poor thing; but some attribute this premature droop to the fact that an '86 man frowned on the childish amusement just as the earth was thrown upon the roots. This probably soured its disposition.

The present year, the third volume of the class history shows 116 members on the rolls, 63 being regular students, and the rest specials. A number of the class have recently been more or less seriously affected by undue exposure to heat; "but in other respects we are doing quite well."

Our hours at the Institute are from 9 A.M. on Monday till 12 M. on Saturday, with intermissions to visit the supply-room, Secretary's office, and letter-rack. We should be pleased to see our friends at any time, outside of the hours above mentioned, except Saturday afternoon and Sunday, when we are generally away. When you come, please take the elevator.

Meanwhile, kind reader, we bid you farewell for the present, with the hope that these lines may have been of some interest to you, and doubting not that you see abundant room for the attainment of the wish expressed in our motto, which is,—

*Meliora Speramus.*
CLIMBIN' UP THE INSTITUTE STAIRS.

NOW, if you'll give attention,
Some trials I will mention—
Climbin' up the Institute stairs;
For mechanics is my grip,—
Though I very often slip,
Climbin' up the Institute stairs;
And the Prof's, so good and kind,
I am sure will never mind—
Climbin' up the Institute stairs—
If I punch them one by one,
Just to make a little fun—
Climbin' up the Institute stairs.

CHORUS:—

Then we hear those bells a-ringing,—
We hear, but no one cares,
For the jolly Techs are singing—
Climbin' up the Institute stairs.

Mr. Cross, the physics terror,
Who so seldom makes an error,—
Climbin' up the Institute stairs,—
We will ever hope and pray
That he'll let us through in May—
Climbin' up the Institute stairs.
Webster Wells, in conic sections,
Surely beats the last elections—
Climbin' up the Institute stairs;—
For his head's with knowledge stored
When he sends you to the board—
Climbin' up the Institute stairs.

CHORUS.
TECHNIQUE.

Peter Schwamb, with bevel gears,
Fairly moves us all to tears;
And his epicyclic train
Made us nearly all insane—
   Climbin' up the Institute stairs.
And, though giving passing notice,
We must say a word of Otis;
For of all the funny Dutch,
The old "Esel" was too much—
   Climbin' up the Institute stairs.

CHORUS.

As for Faunce's curves and tangents,
Just imagine, if you can, gents,
That you're ever in a nip;
Then, what good is his descrip'?—
   Climbin' up the Institute stairs.
Then there's dear old William's English
(Two whole hours a week of anguish),
When at least we have a rest,
While his lectures we digest—
   Climbin' up the Institute stairs.

CHORUS.

Spite of all I've said before,
How professors are a bore,
I assuredly believe
That you wouldn't care to leave—
   Climbin' up the Institute stairs.
Now the Class of '87
Is a synonym for heaven;
So enjoy while we may,—
For our life is not all play,—
   Climbin' up the Institute stairs.

CHORUS.
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<td>Freeport, Me.</td>
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### TECHNIQUE.

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</table>
As he stood there, that Sophomore bold,
Thought himself tough, and oh! so old,
I looked him o'er, and said, "How young:
Quite innocent, too, men among."
TECHNIQUE.

CLASS OF '88

OFFICERS.

President.
ARTHUR T. BRADLEE.

Vice-President.
L. A. FERGUSON.

Secretary.
GEORGE E. CLAFLIN.

Assistant Secretary.
E. W. HEATH.

HISTORY.

For ages and ages before the year one,
With all regularity old Solus, the Sun,
Used to gird up his loins, and when he was dressed,
Would get out of the east and start for the west;
And when he got there, at least it is said,
Would go out of sight and into his bed.
The ancients all wondered why he did so,
And some of them thought 'twas a regular go:
Some went so far as often remark,
If he's out of sight, why, we're in the dark.
No matter what nations were crushed out of sight,
His lordship, old Solus, ne'er let up a mite,—
W asn't hustled or bustled, or rattled or worried;
To tell the plain truth, was not even hurried
Since the time of begunin', begun, and begun,
From when we were non est to when we were sum.
The Sun from the Parcae learned the lines of all Fate,
To the Future and History of old '88;
And he knew that a time in the future was coming
When enlightening the world would keep him a-running:
And he knew all the facts concerning our class,  
Our "Force" in the "Absolute," also our "Mass."  
So he was saving his strength, for how well he knew,  
When we got a-going, he'd have plenty to do  
To enlighten professors in giving us light,  
To make perfectly clear the paths that are right,—  
That loafing is bad, should always be stopped,  
Or, alas! from your marks you'll surely be dropped;  
For the old ancient saying of "Go to the ant,"  
Of "observing her ways," is nothing but cant.  
With modern improvements: "My son, here's a check;  
Go, grind like a grindstone—go to the Tech.  
Don't think you are smart, and go trusting to luck,  
Or play pool or billiards; you'll surely get stuck."

We entered as Freshmen, two ninety-three strong,—  
But stay there a minute, for now I am wrong;  
Before I make statements, I'd best have a care:  
Besides all the strong were four or five fair.  
For Science and so forth, with wise, pretty heads,  
To the Tech were seen going—I mean our "Coeds."  
The boys all thought of the fair ones, how sweet,  
While instructors caught on in a way hard to beat:  
And then, in explaining a simple reaction,  
Aside from their duty, there seemed some attraction;  
And they, of course, had some good honest scruples  
About leaving alone such promising pupils.  
But then, we all know 'twas all for the best,  
(Who was also the prettiest) so I'll give them a rest.

'Midst many forebodings the annuals came,  
And when they were gone, we weren't quite the same.  
Some were famous for H's and C's;  
Some were for cursing their F's and their D's—  
Unfortunate youths, who had somehow got plowed,  
And on their petitions received, "Not allowed;"  
Or to a professor, perhaps, were "referred,"  
So that work in that subject was somewhat deferred.

We've weathered some storms, passed over some shoals,—  
Have made a few touchdowns, have kicked a few goals.  
Though formerly drawing threatened to kill us,  
And chemistry seemed a-going to spill us,
Old English was dry, and French seemed no use,  
Except for occasionally raising the deuce;  
Math'ematics were tough (or more than improper),  
And occasionally gave us the —— of a cropper.  
But with all of our trials of those who survive,  
Our hundred and eight have come out alive,—  
Alive for physics, descriptive and history;  
For chronic math'matics, whose curves are a mystery;  
For drawing, surveying, and for all studies such  
As mechanicism, shopwork, and likewise for Dutch.  

Our courses are chosen, professions selected,  
And now for "exams," which are always expected  
To give us "straight tips" of the Semies, and so forth,  
That we may get through and not have to go forth  
For getting behind, and forgetting our lectures,—  
For basing our faith on uncertain conjectures.  
Though troubles have been, though troubles may come,  
Ahead in the future is plenty of fun —  
Fun for the Civil, Mechanical, Miner;  
Fun for the Chemist and the Chronic whiner;  
Fun for the Architect and Electrical chap,  
And for the Special, and irregular snap,  
But in the future, whate'er be our fate,  
Rah! rah! and a tiger; whoopla—'88!
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TECHNIQUE,

Wilson, Benjamin F., Jr. Norfolk, Va. 26 Berwick Park.
Wilson, Horace M.* Cambridge Cambridge.
Wood, J. Delano New Bedford 25 Somerset St.
Wright, Minturn T. Philadelphia, Pa. 115 Berkeley St.
Wuichet, Walter G.  Dayton, O. 62 Berkeley St.
Young, Henry G.  Groton  153 West Canton St.

Freshmen, 214.
HISTORY.

YES, we have a history; for our life, though short, has been eventful. A glance at our susceptible countenances would suffice to tell to any one accustomed to translate facial expression, that the last six months had been, for us, filled with anxiety, and hope, and fear, and bitter longing; that the future is, for us, thick with manly purpose and the expectation of great ambition.

But six short months ago a noble army, the flower of the youth of the land, we rallied to the call of '89, and gave battle to the hosts of questions pressing hard upon us. That was a hard-fought field. Many a sturdy heart received most fearful blows, wholly unfitting them to renew the engagement in the fall; many beat an inglorious retreat, leaving, in their confusion, unbroken columns of questions and problems; some, who got within the walls, still bear marks of the direful contest that only time and attention will efface. But, be it to our passing credit and high honor, a goodly number overcame, their claims were all allowed, and unconditional surrender was acceded them.

And now we look steadily forward to the time when we shall plant the flag of '89 on the highest pinnacles of Learning's tower. Already our lines are forming in the drill; already we are climbing Learning's iron stairs, and wrestling with Mathematics, Chemistry, Drawing, English, French, alike. Already we are in the field, and who can say that we do Cant-on our defeats more than we do Hyde our victories.
TECHNIQUE.

We held our class-meeting, and very much regret that an opportunity to make the popinjays of '88 realize their insignificance, was taken from us by one greater than we.

Boston's noble sons have extended their hands to grasp our shekels; her fair daughters have smiled on our efforts to please them; the D. M. cordially appropriates our pennies, while the M. D. gently stows away our dollars.

And now, as we close this first leaf of our history, we beseech you to look upon our maiden efforts with indulgence, and bear in mind the fact that we are, as yet, but buds of promise. Do not nip us with the frosts of cold reserve, and we shall yield a noble fruitage in the harvesting of '89.

HISTORIANS.
### Second Year Students

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**SECOND YEAR, 30.**
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<td>Green, Fred W.</td>
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<td>Wilson, J. H.</td>
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</table>

**Total, 61.**
Summary

School of Industrial Science.
Graduate Students ........................................ 19
Seniors .................................................. 67
Juniors .................................................. 132
Sophomores .............................................. 195
Freshmen ................................................ 214

627
Deduct names counted twice ......................... 19 608

School of Mechanic Arts.
First Year .................................................. 30
Second Year .............................................. 30

60

Lowell School of Practical Design ................. 61

Total ..................................................... 729

Graduates.

School of Industrial Science ....................... 386
School of Mechanic Arts ............................. 26
Lowell School of Practical Design ............... 136

Total ..................................................... 548
Graduation Exercises

CLASS OF '85

TUESDAY, JUNE 2, 1885.

INTRODUCTION . . . . . . . PROFESSOR RUNKLE.

READING OF ABSTRACTS, AND TITLES OF THeses,

AND

Presentation of Diplomas.

Nitrogen in Sewage.

DAVID BAKER . . . . . . . . . . . . Auburndale, Mass.
Treatment of an Argentiferous Manganese Ore by Amalgamation.

Some Points in Theatre Construction.

HEYWOOD COCHRAN . . . . . . . . Louisville, Ky.
An Investigation of the Modulus of Elasticity and some other Properties of Cast Iron.

EDWARD HENRY DEWSON, Jr. . . . . . . . . Quincy, Mass.
An Experimental Study of the Balancing of the Action of the Reciprocating Parts of a Locomotive.

FREDERICK FOX, Jr . . . . . . . . Portland, Me.
Alberite.
TECHNIQUE.

THOMAS WILDER FRY . . . . . . . . . . . . . . . . Chicago, Ill.
Results of Experiments on the Steam Engines in the Mechanical Engineer-
ing Laboratory of the Massachusetts Institute of Technology.

ROBERT RHEA GOODRICH . . . . . . . . . . . . . . South Boston, Mass.
Concentration of Calumet Sand for Copper.

WALTER KENDRICK HARRINGTON . . . . . . . . . . Newport, R. I.
Design for a Wrought Iron Arched Bridge, to Carry the Main Avenue
Across the Pond in the Boston Public Garden.

ELEAZER BARTLETT HOMER . . . . . . . . . . . . . . Belmont, Mass.
Design for a Theatre.

FRANK HERBERT LORD . . . . . . . . . . . . . . Somerville, Mass.
A Study of the Effect of the Reciprocating Parts on the Crank-Pin Pres-
sure of Certain Engines.

TRACY LYON . . . . . . . . . . . . . . . . . Oswego, N. Y.
An Investigation of the Valve Gear of Several Types of Stationary Engines.

HUGH MACRAE . . . . . . . . . . . . . . . . . Wilmington, N. C.
Copper Refining.

HENRY MARTIN . . . . . . . . . . . . . . . . . Lowell, Mass.
Action of Bromine on the Substituted Anilides.

ALLYNE LITCHFIELD MERRILL . . . . . . . . Cambridge, Mass.
Experiments on the Slipping and Friction of Oak-Tanned Leather Belts.

EBEN GILES MERRILL . . . . . . . . . . . . . . Chelsea, Mass.
A Comparison of Tubes and Current Meters and an Investigation of Sub-
surface Velocities, principally in Rectangular Flumes.

EVERETT MORSS . . . . . . . . . . . . . . . . . Boston, Mass.
The Smelting of Vershire Copper Ore and of Argentiferous Galena Con-
centrates.

The Geology of the Bradford (Pa.) Oil Rocks.

JOSEPH EDSON NUTE . . . . . . . . . . . . . . Boston, Mass.
The Sewerage of Malden, Mass.

MARCILLA IMELDA O'GRADY . . . . . . . . . . Boston, Mass.
TECHNIQUE.

FRANK ALBERT PICKERNELL . . . . . . . South Boston, Mass.
Electro-motors and their Efficiency.

Measurement of Strong Currents and High Electro-motive Forces.

NEWBET MOSES RANDALL . . . . . . . East Boston, Mass.
The Smelting of Calumet "Black Jack" for Black Copper.

OTIS TALBOT STANTIAL . . . . . . . . . Melrose, Mass.
Treatment of Sombreroite Ore by Patera and Russell Processes.

HENRY PAUL TALBOT . . . . . . . . . . . Holliston, Mass.
Decomposition of Paraffine Hydrocarbons by Heat.

GEORGE PHILIAS VANIER . . . . . . . . . Boston, Mass.
Concentration of Low Grade Ores.

ERASTUS WORTHINGTON, Jr. . . . . . . . Dedham, Mass.
Certificates Awarded

To

CHARLES ALEXANDER HEATH........ Brookline, Mass.

Of the School of Mechanic Arts.


SARAH A. DREW............. Cambridge, Mass.

LAURA J. FISK.................. Shelburne, Mass.

LEWIS G. FLAGG........ Hanover, N. H.

NELLIE F. GAGE................. Boston, Mass.

GEORGE O. IRISH........ New Bedford, Mass.

SARAH N. MACOMBER........... Boston, Mass.

FRANK H. MARTIN........ Providence, R. I.

FRED W. NOYES............. Melrose, Mass.

ULYSSES S. G. RAWLINGS........ Boston, Mass.

JAMES F. SMITH.............. Boston, Mass.

FRED A. SPRINGER........ Marlboro, Mass.

WILL C. SWAIN............. Dover, N. H.


WALTER A. UNDERWOOD......... Boston, Mass.

ABBA I. WARD............... Boston, Mass.

MARY A. WHITE............... Chelsea, Mass.

EMILY H. WILSON............. Needham, Mass.

Of the Lowell School of Practical Design.
Alumni Association

of the

Massachusetts Institute of Technology.

Officers.

President.

Howard A. Carson, '69.

Vice-President.

S. E. Tinkham, '73.

Secretary.

George F. Swain, '77.

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The President, Vice-President, and Secretary.

S. M. Felton, Jr., '73 . . . . . . Term expires 1886.

S. J. Mixter, '75 . . . . . . " " 1887.

Alumni Committee on the School.

J. Rayner Edmands, '69 . . . . . . Term expires 1887.

C. O. Parsons, '73 . . . . . . " " 1886.

F. G. Stantial, '79 . . . . . . " " 1888.

Trustees of the Alumni Fund.

Joseph Stone, '68 . . . . . . Term expires 1887.

Howard A. Carson, '69 . . . . . . " " 1889.

James P. Tolman, '68 . . . . . . " " 1891.
ROLL OF CHAPTERS.

1855. A. Ohio Wesleyan University.
1857. H. University of Mississippi.
1858. A. Indiana State University.
1859. Z. Indiana Asbury University.
1859. O. Dickinson College.
1859. F. University of Virginia.
1863. θ. Pennsylvania College.
1864. K. University at Lewisburg.
1866. Z. Washington and Lee University.
1866. P. Butler University.
1867. F. Lafayette College.
1867. M. Denison University.
1869. Ω. Northwestern University.
1871. X. Hanover College.
1872. Π. Howard College.
1872. T. Roanoke College.
1872. Σ Σ. Hampden-Sydney College.
1873. B. Wooster University.
1874. Τ Τ. Randolph-Macon College.
1874. Δ Δ. Purdue University.
1876. Z Z. Centre College.
1877. Θ Θ. University of Michigan.
1880. Δ Χ. Wabash College.
1881. Κ Κ. Illinois Industrial University.
1882. Z Z. University of Cincinnati.
1882. Χ Χ. University of Louisiana.
1882. A Α. Ohio State University.
1882. A Ζ. Beloit College.
1882. A Η. University of Iowa.
1882. A Θ. Massachusetts Institute of Technology.
1883. A Δ. Stevens Institute of Technology.
1883. A Ε. University of Nebraska.
1883. A Λ. Illinois Wesleyan University.
1883. A K. Hillsdale College.
1884. A Α. Wisconsin State University.
1884. A M. Virginia Military Academy.
1884. Φ Φ. University of Pennsylvania.
1884. A Ζ. University of Kansas.
1884. A Nu. University of Texas.
IN HOC SIGNO VINCENTES
Sigma Chi Fraternity

ALPHA THETA CHAPTER.
Established March 22, 1882.

ACTIVE MEMBERS.

Wm. M. Taylor.
Theodore Stebbins.
Frederick W. Putnam.
Charles Wood.
Harry B. Merriam.
David Van Alstine.
Frederic P. Gulliver.
Edgar A. Frost.

Albert D. Currier.
Frederick H. Muhlenberg.
Maurice du Pont.
Guy Kirkham.
Julian V. Wright.
J. S. G. B. Ray.
J. H. McCortney.
N. P. Ames Carter.
ROLL OF CHAPTERS.

1867. B. Yale College.
1874. G. Stevens Institute of Technology.
1885. Δ. Massachusetts Institute of Technology.
Theta Xi Fraternity

DELTA CHAPTER

MEMBERS

Abram H. Badger.
Warner J. Banes.
Morton E. Cobb.
William B. Douglas.
George O. Draper.
Lyman Farwell.

Edward W. Heath.
James H. Mirrlees.
John L. Shortall.
Timothy W. Sprague.
Solomon Sturges.
Frederick Thompson.
## Roll of Active Chapters

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Alpha Tau Omega

Massachusetts Beta Gamma Chapter.

Established 1885.

In Urbe.

M. S. Harlow (N. J., A.K.)

Class of '87.

Wm. L. Harris. Quintard Peters.
Walter H. Gleason. J. A. Cameron.
C. D. Underhill.

Class of '88.

W. L. Dearborn. Harold Binney.
F. W. Hoadley.
Other Fraternities Represented

ALPHA DELTA PHI.
J. C. Smith . . . . Brunonian Chapter.

BETA THETA PI.
H. M. Carter . . . . Alpha Eta Chapter.
Thos. C. King, A.B. . . Alpha Mu Chapter.

CHI PSI.
Harry W. Clark . . . . Psi Alpha Chapter.
Henry J. Horn, Jr. . . Alpha Nu Chapter.

DELTA UPSILON.
Ellison C. Means . . . . Marietta Chapter.
George F. Reynolds . . Northwestern Chapter.

KAPPA ALPHA.
(Southern Order)
B. S. Redd . . . . Eta Chapter.

PHI KAPPA PSI.
John E. Doak . . . . Alpha Chapter, of California.
C. H. Gardiner . . . . Alpha Chapter, of Dist. of Columbia.

PSI UPSILON.
Geo. W. Patterson, Jr., A.B. Beta Chapter.

SIGMA PHI.
Maurice P. Vielé . . . . Delta Chapter, of New York.
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ELWOOD C. WILSON.
GRANGER WHITNEY.
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David Van Alstine.
Theodore Stebbins.
Charles F. Richardson.
William M. Taylor.
John K. Burgess.

C. M. Wilder.
George F. Reynolds.
Frederick C. Todd.
Solomon Sturges.
S. W. Bowles, Jr.
Quintard Peters.
Walter C. Fish.
Julian A. Cameron.
Henry D. Sears.
John S. G. B. Ray.

Harold O. Binney.
C. B. A.

Founded 1884.

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Secretary.
Algernon S. C. Warren.

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William L. Dearborn.
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Francis L. V. Hoppin.
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HENRY B. BRAINERD.
THOMAS D. BRAINERD.
FRANK G. BURGESS.
JULIAN A. CAMERON.
FRANK D. CARNEY.
EDWARD G. CRAIGHEY.
MORTON E. COBB.

STEPHEN E. COOMBS.
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GEO. O. DRAPER.
JESSE L. R. ELIOT.
PERRY R. FLETCHER.
JOHN M. FOX.
JOSEPH B. GAY.
WALTER H. GLEASON.
EDWARD O. GOSS.
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Edward A. Jones.
Charles B. Kendall.
Harry W. Kimball.
Guy Kirkham.
Benj. C. Lane.
Joseph B. Loewenthal.
George L. Manning.
James H. Mirkless.
Herbert W. Northey.
George F. Patterson.
Quintard Peters.
Charles A. Proctor.
Franz H. Schwarz.
Henry D. Sears.
Willard T. Sears.
Frank E. Shepard.
Charles P. Smith.
John L. Shortall.

Henry Souther, Jr.
Frank L. Solomon.
Hollon C. Spaulding.
Timothy W. Sprague.
James H. Stanwood.
John W. Stearns.
Norman Q. Stewart.
Henry F. Stoddard.
Solomon Sturges.
George E. Sylvester.
Giles Tainter.
Edward G. Thomas.
William R. Thomas.
Frederick Thompson.
Walter S. Thompson.
Frederick C. Todd.
Harry F. Totman.
F. Manton Wakefield.
Granger Whitney.
Joseph T. Whitney.
Herbert A. Wilcox.
Arthur S. Williams.
WE meet again, my boys!
Our hearts brimful of joys,
Keeping whatever annoys
From Eighty-seven.
If disappointment brings
Dark days on its black wings,
"We hope for better things,"
There rests our heaven.

Joined in our studies here,
Joined in our hours of cheer,
Drawn closer year by year
In friendship fond:
Magnet and armature,
Circuit of friendship pure,
Long may thy power endure,
A pleasing bond!

GUY KIRKHAM.
Society of '88

OFFICERS.

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Harry C. Moore.

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Henry J. Horn, Jr.

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Lorenzo B. Newell.
Ellison C. Means.
Howard G. Hodgkins.

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John Blodgett.
Nathaniel I. Bowditch.
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Sylvanus H. Cobb.
Arthur J. Conner.
Charles H. Cromwell.
Eugene S. Daniell.
William L. Dearborn.
George C. Dempsey.
Richard Devens.
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Maurice du Pont.
Edgar F. Dutton.
Richard Eppes, Jr.
Louis A. Ferguson.
Theodore A. Foque.
Amory P. Folwell.
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Edward H. Graves.
George W. Hamblett.
George L. Harvey.
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Edward W. Heath.
Edward W. Herrick.
George U. G. Holman.
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Alexander Jarecki.
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Benj. C. Lockett.
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Ellison C. Means.
Charles G. Merrell.
Sumner B. Merrick.
Frank A. Moore.

Harry C. Moore.
William E. Mott.
Charles H. Mower.
Samuel G. Neiler.
Lorenzo B. Newell.
Addison D. Nickerson.
Harold P. Palmer.
Clarence W. Perley.
Edward P. Quigley.
Foster Ranlett.
Benoist S. Redd.
Russell Robb.
Frederick H. Safford.
George C. Scales.
Walter E. Silsbee.
David Silverberg.
Ivar L. Sjöström.
William G. Snow.
Charles W. Stevens.
Charles A. Stone.
John Sully.
Sumner E. Swasey.
Ralph Sweetland.
William W. Underhill.
Richard H. Vose.
Algernon S. Warren.
Edwin S. Webster.
Samuel Wheeler.
Arthur S. Williams.
Victor Windett.
Frederick J. Wood.
Amos E. Woodward.
Julian V. Wright.
Steward Wrightington.

Philip H. Wynne.
The Society of '89 met for the first time November 21st. Mr. Bardwell was elected temporary chairman, and the following committee was appointed to draw up a constitution and by-laws:—

MESSRS.
BARDWELL.
H. G. BAILEY.
OLZENDAM.

La Rose.
SIMPSON.
YOUNG.

Among those present, the following gentlemen signified their intention of becoming members of the Society:—

MESSRS.
YOUNG.
CLEMENT.
BAILEY (H. G.).
BANES.
BARDWELL.
Pierce.
BADGER.
BLISS.
DURFEE.
CHADWICK.
LA ROSE.
MORGAN.
DUNPHIE.

SIMPSON.
APPLETON.
M ARCY.
BATES (H. W.).
OLZENDAM.
CHENEY.
Ewen.
HAWKINS.
HYDE.
AYER.
BAILEY (H. N.).
MORSE.
DURFEE.

The regular formation was not completed in time for publication.
OFFICERS.

President.
O. S. Doolittle.

Vice-President.
J. B. Loewenthal.

Secretary.
W. H. Low.

Treasurer.
W. H. Gleason.

MEMBERS.

F. M. Crosby.
O. S. Doolittle.
J. C. Duff.
W. H. Gleason.
C. B. Kendall.

B. C. Lane.
J. D. Lloyd.
J. B. Loewenthal.
W. H. Low.
A. A. Noyes.

L. K. Russell.
School of Mechanic Arts '86 Society

OFFICERS.

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Edward G. Osgood.

Vice-President.
Harvey G. Woodward.

Secretary.
John W. Killinger, Jr.

Treasurer.
Benjamin M. Howe.

MEMBERS.

Fred. M. Atwood.
James T. Ball.
Harry P. Benson.
Otis R. Clark.
William F. Dawson.
William T. Edwards.
Frank C. Goddard.
Fred. M. McGraw.
Benj. M. Howe.
John W. Killinger, Jr.
Edward G. Osgood.
Nathan R. Pratt.

Walter P. Richardson.
Fred. A. Schneidt.
William C. Smith.
S. B. Stewart, Jr.
Reynold H. Sutherland.
Thaxter N. Tripp.
William P. Turner.
Fred. A. Whitney.
Ambrose Walker.
Harvey G. Woodward.
Norman S. Wooldridge.
Walter G. Wright.
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J. G. Howard.

Vice-President.
F. A. Kendall.

Secretary.
E. B. Homer.

Treasurer.
Thos. A. Fox.

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J. S. Atkinson.
E. Baumgarten.
E. R. Benton.
G. L. Billings.
W. L. Brainerd.
L. Farwell.
Thos. A. Fox.
H. S. Frazer.
G. C. Gardner.
E. B. Homer.
J. G. Howard.

F. A. Kendall.
Guy Kirkham.
W. G. Lawrence.
J. W. Lavalle.
A. W. Lord.
J. P. Loud.
E. F. Maher.
H. B. S. Prescott.
R. G. Schmid.
J. L. Shortall.
F. M. Wakefield.

W. D. Windom.
'86 Chemists:

Orrin S. Doolittle.
James C. Duff.
Edward S. Foss.
C. Belle Kenney.

James D. Lloyd.
Wilson H. Low.
Arthur A. Noyes.
L. Kimball Russell.
'86 Civils

Louis R. Cobb.
Louis F. Cutter.
Fred. E. Foss.
William F. Jordan.
Frank L. Locke.

Harry B. Merriam.
Arthur G. Robbins.
J. Waldo Smith.
Samuel C. Stickney.
Lawrence M. Thacher.

Charles Wood.
TO THE MEMORY OF THE
CIVILS
OF '87.

HENRY S. ADAMS
WILLIAM B. BLAKE
WILLIAM S. BLISS
HENRY F. BRYANT
FRANK G. BURGESS
MAURICE W. COWLEY
STEPHEN C. COOMBS
WILLIAM C. CUSHING
PERRY R. FLETCHER
EDGAR A. FROST
HENRY F. HILL
ROULHAC RUFFIN
FRANK L. SOLOMON
JAMES H. STANWOOD
GEORGE E. SYLVESTER
HARRY F. TOTMAN
FRED A. THOMAS
FREDERICK THOMPSON
WALTER E. THOMPSON
WILLIAM A. WHITNEY
ARTHUR G. FOGG

HORACE P. EDGERT
EDWARD A. HASSEL
ALBERT T. FAYE
ROYAL B. YOUNG

M. I. T. C. E. '87
Hillian Club

MEMBERS.

S. Wallace Bowles, Jr.  ROGER MORGAN.
William L. Dearborn.  JAMES H. MIRLESS.
George O. Draper.    QUINTARD PETERS.
William L. Harris.    HENRY D. SEARS.
Edward W. Herrick.    JOHN L. SHORTALL.
Guy Kirkham.         TIMOTHY W. SPRAGUE.

Solomon Sturges.
POKER CLUB
ATHLETICS
OFFICERS.

President.
C. F. Spring, '85.

Vice-President.
Theodore Stebbins, '86.

Secretary.
P. R. Fletcher, '87.

Treasurer.
H. M. Steele, '87.

Executive Committee.
P. R. Fletcher, '87. A. G. Robbins, '86.
W. L. Dearborn, '88.
Outdoor Fall Meeting

UNION GROUNDS, NOV. 1, 1884.

<table>
<thead>
<tr>
<th>Event</th>
<th>Winner</th>
<th>Time</th>
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</thead>
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<tr>
<td>100 Yards Dash</td>
<td>F. R. Young, '86</td>
<td>10 3-5 s.</td>
</tr>
<tr>
<td>One Mile Walk</td>
<td>G. W. Farmer, '86</td>
<td>8 m. 24 1-2 s.</td>
</tr>
<tr>
<td>Half Mile Run</td>
<td>H. F. Hill, '87</td>
<td>2 m. 17 3-4 s.</td>
</tr>
<tr>
<td>Running High Jump</td>
<td>W. L. Dearborn, '88</td>
<td>5 ft. 4 in.</td>
</tr>
<tr>
<td>One Mile Run</td>
<td>E. L. Pierce, '86</td>
<td>5 m. 25 s.</td>
</tr>
<tr>
<td>Putting Shot</td>
<td>F. R. Young, '86</td>
<td>32 ft. 7 1-2 in.</td>
</tr>
<tr>
<td>Two Mile Bicycle Race</td>
<td>H. Souther, Jr., '87</td>
<td>7 m. 55 1-2 s.</td>
</tr>
<tr>
<td>Quarter Mile Run</td>
<td>L. R. Cobb, '86</td>
<td>58 2-5 s.</td>
</tr>
<tr>
<td>Throwing Base-ball</td>
<td>W. B. Douglas, '87</td>
<td>300 ft. 6 in.</td>
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<tr>
<td>Running Broad Jump</td>
<td>M. E. Cobb, '87</td>
<td>17 ft. 4 1-2 in.</td>
</tr>
<tr>
<td>120 Yards Hurdle Race</td>
<td>Solomon Sturges, '87</td>
<td>19 3-5 s.</td>
</tr>
<tr>
<td>Kicking Foot-ball</td>
<td>Solomon Sturges, '87</td>
<td>129 ft.</td>
</tr>
<tr>
<td>Standing Broad Jump</td>
<td>H. F. Hill, '87</td>
<td>9 ft. 2 in.</td>
</tr>
<tr>
<td>220 Yards Dash</td>
<td>G. F. Steele, '85</td>
<td>26 3-5 s.</td>
</tr>
<tr>
<td>Three-legged Race</td>
<td>Hill, '87, Pierce, '86</td>
<td></td>
</tr>
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</table>

SUMMARY.

'85 won                    1
'86                        5
'87                        7
'88                        1
Indoor Winter Meeting

DECEMBER 20, 1884.

Fence-vault (Hd'ceph) W. L. Dearborn, '88 (1 1-2 in.), 6 ft. 6 5-8 in.
Putting Shot...... F. R. Young, '86...... 33 ft. 3 1-2 in.
Running High Jump F. R. Young, '86...... 5 ft. 3 1-2 in.
Indian Club Swinging G. L. Billings, '87
Tug of War........ Class '86
Fencing........... W. H. Low, '86
Running High Kick H. F. Hill, '87...... 8 ft. 5 1-2 in.
Feather-weight Sparring E. P. Quigley, '88
Light-weight Sparring H. P. Duker, '87

SUMMARY.

'86 won................................. 4
'87 " .................................. 3
'88 " .................................. 2
Indoor Spring Meeting

MARCH, 1885.

Parallel Bars . . . . H. M. Steele, '87
Run'g High Jump (Hd'cp) J. L. Kimball (2 in.) . . . 5 ft. 6 in.
Putting Shot . . . . J. F. Cunningham, U. A. A. C., 34 ft. 10 in.
Tug of War . . . . B. Y. M. C. A.
Standing High Jump . . F. R. Young, '86 . . . 4 ft. 10 in.
Running High Kick . . W. S. Phillips . . . 9 ft. 1 in.
Feather-weight Sparring . J. D. Williams, U. A. A. C.
Light-weight Sparring . H. Taggard, B. Y. M. C. U.
Middle-weight Sparring . M. H. Clyde, H. A. A.
M. J. T. A. C.

1885-86.

President.
Charles Wood, '86.

Vice-President.
T. D. Brainerd, '87.

Secretary.
Theodore Stebbins, '86.

Treasurer.
P. R. Fletcher, '87.

Executive Committee.
Charles Wood, '86.
Theodore Stebbins, '86.
S. W. Bowles, '87.
A. G. Robbins, '86.
P. R. Fletcher, '87.
W. L. Dearborn, '88.

'89.
<table>
<thead>
<tr>
<th>Event</th>
<th>Holder</th>
<th>College</th>
<th>Record</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Yards Dash</td>
<td>Wendell</td>
<td>Harvard</td>
<td>10 s.</td>
</tr>
<tr>
<td>220 Yards Dash</td>
<td>Baker</td>
<td>Harvard</td>
<td>22 2-5 s.</td>
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<tr>
<td>Quarter Mile Run</td>
<td>Baker</td>
<td>Harvard</td>
<td>50 1-4 s.</td>
</tr>
<tr>
<td>Half Mile Run</td>
<td>Goodwin</td>
<td>Harvard</td>
<td>2 m. 4-5 s.</td>
</tr>
<tr>
<td>One Mile Run</td>
<td>Cuyler</td>
<td>Yale</td>
<td>4 m. 37 3-5 s.</td>
</tr>
<tr>
<td>120 Yards Hurdle Race</td>
<td>Mulford</td>
<td>Columbia</td>
<td>17 1-2 s.</td>
</tr>
<tr>
<td>One Mile Walk</td>
<td>Eldredge</td>
<td>Columbia</td>
<td>7 m. 7 4-5 s.</td>
</tr>
<tr>
<td>Two Mile Bicycle Race</td>
<td>Dean</td>
<td>Harvard</td>
<td>6 m. 28 s.</td>
</tr>
<tr>
<td>Running High Jump</td>
<td>Page</td>
<td>Un. of Pa.</td>
<td>6 ft. 1-4 in.</td>
</tr>
<tr>
<td>Standing High Jump</td>
<td>Soren</td>
<td>Harvard</td>
<td>5 ft. 1 1-2 in.</td>
</tr>
<tr>
<td>Pole Vault</td>
<td>Toler</td>
<td>Princeton</td>
<td>10 ft. 1 in.</td>
</tr>
<tr>
<td>Putting Shot</td>
<td>Rohrbach</td>
<td>Lafayette</td>
<td>38 ft. 1 in.</td>
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<tr>
<td>Fence Vault</td>
<td>Atkinson</td>
<td>Harvard</td>
<td>7 ft. 3 3-4 in.</td>
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<tr>
<td>Standing Broad Jump</td>
<td>Larkin</td>
<td>Princeton</td>
<td>10 ft. 3 3-8 in.</td>
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<tr>
<td>Running Broad Jump</td>
<td>Jenkins</td>
<td>Columbia</td>
<td>21 ft. 3 in.</td>
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<tr>
<td>Running High Kick</td>
<td>Fogg</td>
<td>Harvard</td>
<td>9 ft. 2 3-4 in.</td>
</tr>
<tr>
<td>Throwing Hammer</td>
<td>Kip</td>
<td>Harvard</td>
<td>88 feet.</td>
</tr>
<tr>
<td>Event</td>
<td>Best Institute Records</td>
<td></td>
<td></td>
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<tr>
<td>--------------------------</td>
<td>------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 Yards Run</td>
<td>F. R. Young, '86</td>
<td>10 3-5 s.</td>
<td></td>
</tr>
<tr>
<td>220 Yards Run</td>
<td>L. R. Cobb, '86</td>
<td>26 1-5 s.</td>
<td></td>
</tr>
<tr>
<td>Quarter Mile Run</td>
<td>L. R. Cobb, '86</td>
<td>58 2-5 s.</td>
<td></td>
</tr>
<tr>
<td>Half Mile Run</td>
<td>H. F. Hill, '87</td>
<td>2 m. 17 3-4 s.</td>
<td></td>
</tr>
<tr>
<td>One Mile Run</td>
<td>E. L. Pierce, '86</td>
<td>5 m. 24 s.</td>
<td></td>
</tr>
<tr>
<td>120 Yards Hurdle Race</td>
<td>S. Sturges, '87</td>
<td>19 2-5 s.</td>
<td></td>
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<tr>
<td>One Mile Walk</td>
<td>J. Duff, '81</td>
<td>8 m. 16 s.</td>
<td></td>
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<tr>
<td>Two Mile Bicycle Race</td>
<td>H. Souther, Jr., '87</td>
<td>7 m. 55 s.</td>
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<tr>
<td>Running High Jump</td>
<td>G. L. Heins, '82</td>
<td>5 ft. 6 in.</td>
<td></td>
</tr>
<tr>
<td>Standing High Jump</td>
<td>J. L. Kimball, '87</td>
<td>5 ft. 6 in.</td>
<td></td>
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<tr>
<td>Pole Vault</td>
<td>F. R. Young, '86</td>
<td>4 ft. 10 in.</td>
<td></td>
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<tr>
<td>Putting Shot (16 lbs.)</td>
<td>E. T. Sturgis, '84</td>
<td>9 ft. 4 in.</td>
<td></td>
</tr>
<tr>
<td>Fence Vault</td>
<td>P. R. Fletcher, '87</td>
<td>34 ft. 9 1-2 in.</td>
<td></td>
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<tr>
<td>Standing Broad Jump</td>
<td>W. T. Ripley, '82</td>
<td>7 ft. 2 in.</td>
<td></td>
</tr>
<tr>
<td>Running High Kick</td>
<td>H. F. Hill, '87</td>
<td>9 ft. 2 in.</td>
<td></td>
</tr>
<tr>
<td>Running Broad Jump</td>
<td>T. C. Du Pont, '83</td>
<td>8 ft. 8 in.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>M. E. Cobb, '87</td>
<td>17 ft. 4 1-2 in.</td>
<td></td>
</tr>
</tbody>
</table>
The Base Ball Association

1884–85.

OFFICERS.

President.
SOLOMON STURGES, '87.

Treasurer and Secretary.
H. M. STEELE, '87.

Manager.
A. D. CURRIER, '87.

Captain.
W. B. DOUGLAS, '87.

SUMMARY OF GAMES FOR 1885.

1. April 11th, at Cambridge.—Harvard, 11; Techs, 4.
   Twombly, '87, 3d b.; Kendrick, M. A., r. f. and s. s.; Douglas, '87, 2d b.; Thomas, '87, p.; Sturges, '87, 1st b.; Bush, M. A., c. and l. f.; Kirkham, '87, c. f.; Fletcher, '87, l. f. and r. f.; Clement, '88, s. s. and c.

2. April 18th, on Union Grounds, Boston.—Dartmouth, 17; Techs, 3.
3. April 21st, at Providence.—Techs, 5; Brown, 2.
   Twombly, '87, 3d b.; Carleton, '87, s. s.; Douglas, '87, 2d b.;
   Thomas, '87, p.; Clement, '88, c.; Kimball, '87, r. f.; Sands, '85,
   l. f.; Sturges, '87, 1st b.; Kirkham, '87, c. f.

   Twombly, '87, 3d b.; Carleton, '87, s. s.; Douglas, '87, 2d b.;
   Thomas, '87, p.; Clement, '88, c.; Kirkham, '87, c. f.; Kimball,
   '87, l. f.; Bush, M. A., r. f.; Sturges, '87, 1st b.

5. May 6th, at Haverhill, Mass.—Haverhills, 12; Techs, 10.
   Twombly, '87, 3d b.; Carleton, '87, s. s.; Douglas, '87, 2d b.;
   Thomas, '87, p.; Clement, '88, c.; Kirkham, '87, c. f.; Kimball,
   '87, r. f.; Brainerd, '86, l. f.; Sturges, '87, 1st b.

6. May 9th, Union Grounds.—Beacons, 16; Techs, 7.
   Twombly, '87, 3d b.; Carleton, '87, s. s.; Douglas, '87, 2d b.;
   Thomas, '87, l. f.; Howes, '88, p.; Kirkham, '87, c. f.; Kimball,
   '87, r. f.; Brainerd, '86, c.; Sturges, '87, 1st b.; Clement, '88, l. f.

7. May 16th, Union Grounds.—Tufts, 6; Techs, 5.
   Twombly, '87, 3d b. and c. f.; Carleton, '87, s. s.; Douglas,
   '87, 2d b.; Thomas, '87, p.; Clement, '88, c.; Kirkham, '87, c. f. and
   3d b.; Kimball, '87, r. f.; Brainerd, '86, l. f.; Sturges, '87, 1st b.
### BATTLING AVERAGES.

<table>
<thead>
<tr>
<th>Players</th>
<th>Games</th>
<th>At Bat.</th>
<th>Runs</th>
<th>1st Base</th>
<th>T. B.</th>
<th>Average 1st B.</th>
<th>Average T. B.</th>
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<td>Brainerd</td>
<td>3</td>
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<td>4</td>
<td>6</td>
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<td>Douglas</td>
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<td>Fletcher</td>
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<td>Kimball</td>
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<td>Kendrick</td>
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<td>2</td>
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<td>7</td>
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<td>Carleton</td>
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<td>Bush</td>
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FIELDING AVERAGES.

<table>
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<th>P. O.</th>
<th>A.</th>
<th>E.</th>
<th>Average</th>
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<td>Sturges</td>
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<td>12</td>
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<td>.864</td>
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<td>Thomas</td>
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<td>Brainerd</td>
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<td>Fletcher</td>
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<td>.000</td>
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<tr>
<td>Kendrick</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>.000</td>
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</tbody>
</table>
Class Nine of '89

Catcher.
Clement.

Pitcher.
Bates.

1st Base.
Seavey.

2nd Base.
Ewen.

3rd Base.

Ayer (Captain).

Short-stop.
Kendrick.

Left Field.
Russell.

Center Field.
Thomas.

Right Field.
Marcy.

Games Played.

Cantons vs. '89. . . . . . . . . . . . 12-9.
Hyde Park vs. '89 . . . . . . . . . . . . 4-18
1884-85.

OFFICERS.

President.
Paul Winsor, '86.

Manager.
Solomon Sturges, '87.

Vice-President.
W. B. Douglas, '87.

Captain.
P. R. Fletcher, '87.

TEAM.

Rushers.
Herrick, '88.
Steele, '85.

Mahon, '86.

Fletcher, '87 (Center).
Ladd, '88.

Quarter-back.
Douglas, '87.

Winsor, '86.

Vorce, '88.

Cooley, '87.

Quarterback.

Twombly, '87.

Halves.

Shortall, '87.

Substitutes.

Bartlett, '86

Bowles, '87.

Taintor, '87.

GAMES PLAYED.

Harvard vs. Techs
Harvard vs. Techs
Tufts vs. Techs
Tufts vs. Techs
Williams vs. Techs

43-5
43-0
4-6
27-0
10-0
### '87 Freshman Eleven

**Rushers.**
- Hunt.
- Cabot.

**Mahon.**
- FLETCHER (Center).
- Shortall.

**La Trobe.**
- Cooley (Captain).

**Quarter-back.**
- Douglas.

**Winsor.**
- Full-back.
- Dorrance.

**Twombly.**

---

**SUMMARY OF GAMES.**

<table>
<thead>
<tr>
<th>Team 1</th>
<th>Team 2</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tufts '87</td>
<td>Harvard '87</td>
<td>6-6</td>
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<tr>
<td>Adams '87</td>
<td>Harvard '87</td>
<td>0-2</td>
</tr>
<tr>
<td>Exeter '87</td>
<td>Harvard '87</td>
<td>22-4</td>
</tr>
<tr>
<td>Andover '87</td>
<td>Harvard '87</td>
<td>30-0</td>
</tr>
<tr>
<td>Harvard '87 vs. '87</td>
<td>Forfeited by Harvard.</td>
<td></td>
</tr>
</tbody>
</table>

110
Football Association

1885-86.

OFFICERS.

President.
P. R. Fletcher, '87.

Secretary and Treasurer.
H. D. Sears, '87.

Manager.
W. L. Dearborn, '88.

Captain.
M. W. Cooley, '87.

Advisory Committee.
J. M. Smith, '86.
John L. Shortall, '87.

W. L. Dearborn, '88.
Roger Morgan, '89.

TEAM.

Rushers.
Vorce, '88.
Twombly, '87.

Bowles, '87 (Center).
Fletcher, '87.
Ladd, '88.

Cooley, '87.
Peters, '87.

Quarter-back.
Herrick, '88.

Halves.
Holden, '88.

Sturges, '87.

Full-back.
Shortall, '87.

Substitutes.
Taintor, '87.
Wadsworth, '89.
Devens, '88.

Mahon, '86.
SUMMARY OF GAMES FOR 1885.

   Referee: Mr. Finney, Princeton, '84.

2. Williamstown, Mass., October 24th.—Williams vs. Technology.
   Referee: Mr. Phillips, Harvard, '86.

3. Union Grounds, October 27th.—Tufts vs. Technology.
   Referee: Mr. Peabody, Harvard, '87.

4. Union Grounds, October 31st.—Yale vs. Technology.
   Referee: Mr. Twombly, Yale, '84.

5. Newtonville, November 4th.—Newtons vs. Technology.
   Referee: Mr. Scudder, of Newton.

6. Union Grounds, November 7th.—Williams vs. Technology.
   Referee: Mr. Finney, Princeton, '84.
*7. Union Grounds, November 11th.—Tufts vs. Technology.
    Referee: Mr. Filmore, Harvard, '89.

*8. Union Grounds, November 14th.—Amherst vs. Technology.
    Referee: Mr. Brooks, Harvard, '87.


    Referee: Mr. Whiting, Amherst, '85

*Championship Games.
Northern Inter-Collegiate Football Association

OFFICERS, 1885-86.

President.
P. R. Fletcher,
Technology.

Vice-President.
W. F. Whiting,
Amherst.

Secretary.
S. H. Tyng,
Williams.

Treasurer.
N. A. White,
Tufts.

RECORD OF TEAMS.

<table>
<thead>
<tr>
<th>Teams</th>
<th>Williams</th>
<th>Technology</th>
<th>Tufts</th>
<th>Amherst</th>
<th>Games Won</th>
<th>Points Scored</th>
</tr>
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<tbody>
<tr>
<td>Williams</td>
<td>-</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>6</td>
<td>189</td>
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<tr>
<td>Technology</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>268</td>
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<tr>
<td>Tufts</td>
<td>0</td>
<td>0</td>
<td>-</td>
<td>2</td>
<td>2</td>
<td>34</td>
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<td>Amherst</td>
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<td>0</td>
<td>0</td>
<td>-</td>
<td>0</td>
<td>35</td>
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<td>Games Lost</td>
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<td>2</td>
<td>4</td>
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<td>Points Scored Against</td>
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<td>46</td>
<td>218</td>
<td>217</td>
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### Championship Games

1885-86

<table>
<thead>
<tr>
<th>Date</th>
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<th>Score</th>
<th>Team 2</th>
<th>Score</th>
<th>Location</th>
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<tr>
<td>Oct. 17</td>
<td>Williams</td>
<td>49</td>
<td>Tufts</td>
<td>0</td>
<td>At Williamstown.</td>
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<tr>
<td>Oct. 24</td>
<td>Williams</td>
<td>19</td>
<td>Technology</td>
<td>6</td>
<td>&quot; Williamstown.</td>
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<tr>
<td>Oct. 24</td>
<td>Tufts</td>
<td>22</td>
<td>Amherst</td>
<td>10</td>
<td>&quot; Amherst.</td>
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<tr>
<td>Oct. 27</td>
<td>Technology</td>
<td>16</td>
<td>Tufts</td>
<td>4</td>
<td>&quot; Boston.</td>
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<tr>
<td>Oct. 31</td>
<td>Williams</td>
<td>57</td>
<td>Amherst</td>
<td>0</td>
<td>&quot; Williamstown.</td>
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<td>Nov. 6</td>
<td>Williams</td>
<td>28</td>
<td>Tufts</td>
<td>0</td>
<td>&quot; Boston.</td>
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<td>Nov. 7</td>
<td>Technology</td>
<td>14</td>
<td>Williams</td>
<td>0</td>
<td>&quot; Boston.</td>
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<td>Nov. 11</td>
<td>Technology</td>
<td>110</td>
<td>Tufts</td>
<td>0</td>
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<td>Nov. 13</td>
<td>Tufts</td>
<td>8</td>
<td>Amherst</td>
<td>5</td>
<td>&quot; Boston.</td>
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<tr>
<td>Nov. 14</td>
<td>Technology</td>
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<td>Amherst</td>
<td>0</td>
<td>&quot; Boston.</td>
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<td>Amherst</td>
<td>15</td>
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<td>Nov. 21</td>
<td>Technology</td>
<td>80</td>
<td>Amherst</td>
<td>0</td>
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<td>Nov. 25</td>
<td>Williams</td>
<td>18</td>
<td>Technology</td>
<td>10</td>
<td>&quot; Springfield.</td>
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</table>
'89 Class Eleven:

OFFICERS.

President.
A. W. LA ROSE.

Manager, Secretary, and Treasurer.
A. H. BADGER.

Captain.
A. S. EWEN.

TEAM.

Rushers.
EWEN.
SHELDON.

Cheney.
Chadwick.
Marcy.

Quarter-back.
PORTER.

Duan.

Halves.
DAN.

Full-back.
DANE.

LA ROSE.
KENDRICKEN.

GAMES PLAYED.

ENGLISH HIGH SCHOOL vs. '89 . . . . . . . . . . . 4–0
NEWTONS vs. '89 . . . . . . . . . . . . . . . . . 28–0
OFFICERS.

President.
W. J. Banes, '87.

Vice-President.

Secretary and Treasurer.
E. W. Heath, '88.

Bugler.
FRANKLIN BRETT, '87.

Captian.

First Lieutenant.
EDW. O. GOSS, '87.

Second Lieutenant.
MONTGOMERY ROLLINS, '89.

MEMBERS.

A. Amory.  W. Blanchard.
W. J. Banes.  F. Brett.
<table>
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<tr>
<td>Jas. C. Duff.</td>
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<td>M. du Pont.</td>
<td>C. E. Pease.</td>
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<td>W. P. Frink.</td>
<td>Q. Peters.</td>
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<td>A. M. Forristall.</td>
<td>—— Pratt.</td>
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<tr>
<td>E. H. Graves.</td>
<td>F. E. Shepard.</td>
</tr>
<tr>
<td>R. D. Hall.</td>
<td>H. Souther.</td>
</tr>
<tr>
<td>E. W. Heath.</td>
<td>T. W. Sprague.</td>
</tr>
<tr>
<td>H. M. Hobart.</td>
<td>G. W. Stone.</td>
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<td>J. C. Hobart.</td>
<td>S. Sturges.</td>
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<tr>
<td>E. S. Hutchins.</td>
<td>S. Wheeler.</td>
</tr>
<tr>
<td>B. C. Lane.</td>
<td>F. A. Whitney.</td>
</tr>
<tr>
<td>E. P. Marsh.</td>
<td>F. J. Wood.</td>
</tr>
<tr>
<td>W. H. Merrill, Jr.</td>
<td>J. V. Wright.</td>
</tr>
</tbody>
</table>
The Canoe Club

Officers.

President.
Stephen W. Bowles.

Vice-President.
S. Wallace Bowles.

Secretary and Treasurer.
S. W. Bowles.

Members.

Stephen
Wallace
Bowles
Literary and Musical Organizations
The Tech

1884-85.

BOARD OF DIRECTORS.

President.
ALEX. R. McKIM, '85.

Secretary.
W. H. CHADBORN, JR., '86.

Treasurer.
JAS. E. SIMPSON, '86.

SIDNEY WILLIAMS, '85.
H. C. SPAULDING, '87.
EDWIN O. JORDAN, '88.

BOARD OF EDITORS.

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THOMAS W. FRY, '85.

Hugh MacRae, '85.
Fred. H. Newell, '85.
E. Worthington, Jr., '85.
Walter R. Ingalls, '86.

Albert E. Leach, '86.
Chas. H. Woodbury, '86.
F. Manton Wakefield, '87.
F. W. Hoadley, '88.

Advertising Agent.
THEODORE STEBBINS, '86.
1885–86.

BOARD OF DIRECTORS.

President.
Jas. E. Simpson, '86.

Secretary.
H. C. Spaulding, '87.

Treasurer.
T. W. Sprague, '87.

W. H. Chadbourn, Jr., '86.


BOARD OF EDITORS.

Editor-in-Chief.
Walter R. Ingalls, '86.

Albert E. Leach, '86.

F. Manton Wakefield, '87.

Chas. H. Woodbury, '86.

Benj. C. Lane, '87.

Wm. M. Taylor, '86.

Guy Kirkham, '87.

F. L. V. Hoppin, '88.

Advertising Agent.
Theodore Stebbins, '86.
HISTORY OF "THE TECH."

It was certainly a very modest beginning, and I find myself smiling at this little brown-covered magazine, with its sixteen pages, that I once knew by heart; but it was a beginning, and as such the same feeling of fatherly pride comes over me that we fellows enjoyed when this identical copy came fresh from the printers. It would be difficult to determine, exactly, who founded The Tech; but certain it is, that H. Ward Leonard, '83, was the leading spirit, and A. W. Walker, '82, an able and earnest coadjutor.

After the waning of the Spectrum, which went out with the class of '74, there were periodical attempts to start a paper, but they failed, for lack of support.

The fall of 1881 brought with it a large and enthusiastic class: many important improvements were contemplated at the Institute. About October 15th a mass-meeting was held in Room 4, Rogers, now Room 15, which was packed to overflowing. A committee was appointed, and a week later their plans were submitted and adopted at another rousing meeting. The first Board of Directors and Editors was as follows:—

DIRECTORS.

President
H. Ward Leonard, '83.

Secretary
Henry F. Ross, '82.

Treasurer
I. W. Litchfield, '85.


A. Stuart Pratt, '84.

EDITORS.

Editor-in-Chief
Arthur W. Walker.

G. W. Mansfield, '82, F. F. Johnson, '84.

Harvey S. Chase, Civil and Mechanical Engineering.
Granville Temple Snelling, Architecture.
Chas. H. Tompkins, Jr., Mining and Chemistry.

Sporting Editor
R. Tilden Gibbons.

General Advertising Agent
Samuel M. Munn.
The first issue came out on the day before Thanksgiving, four years ago. The assistance of the football team was necessary to conduct the papers in safety to a little room way up under the roof, where they were distributed. Ah, but that was a triumph for you! An immense table barricaded the open door, and behind it were assembled the entire directorial and editorial boards. How every line and point in the make-up was discussed, and how keenly we relished the jokes and cuts which now aggravate my rheumatism every time I look at them. It was glory enough to stand there and pass out the papers to the howling mob that blocked the halls and five flights of stairs.

Thus The Tech started. It has been successful beyond expectation; but only a few who are acquainted with its inside history know the many hours and months of work that has made it what it is, and on more than one occasion it has seemed as if the only reward would be certain failure.

The events of Commencement Day, 1882, are impressed so vividly on my memory that they can never be forgotten. It was in Huntington Hall, on that day, that Ex-President Rogers died while addressing the graduating class.

It was Decoration Day; and as no reporters were present, I was anxious to get as full a report for The Tech as possible. I was bending over my notes, when suddenly there was an impressive pause—it seemed for a moment as if all held their breath. As I looked up, my first impression was that the stage had given way: Professor Rogers had fallen, and graduates and professors had risen half-way in their chairs of one accord. For a moment every one was paralyzed. Those nearest sprang forward to render assistance—but the need had gone; the simple, noble spirit that a moment before had breathed in the words still fresh in my note-book, had left the body forever. Tenderly they lifted and bore him away; softly the audience dispersed; and in a few moments the hall was deserted, save by the gloom of the shadow of death.

There was a strange coincidence connected with the sad death of Professor Rogers. As I entered the hall, I noticed that the clock directly opposite the stage had stopped, and the hands pointed to twelve. It was within a few minutes of noon that he died.

During the first two years, The Tech published full-page heliotypes of its three Presidents, William B. Rogers, John D. Runkle, and Francis A. Walker; also Ralph Huntington and Dr. W. J. Walker, with a steel engraving of Jacob Bigelow.
The cuts were a source of constant agony to the unfortunate director who had charge of that department, and who was expected to furnish at least one for every number.

On one occasion, when the artistic larder was empty, Walker was unrelenting; but a compromise was effected by my promising to have a cut of the Institute fire-apparatus on time. Now, this was a constant target of ridicule for the chief editor, and I was forgiven when in the issue next day he saw this:

![A BIRD'S-EYE VIEW OF THE M. I. T. FIRE-APPARATUS.](Image)

(N"Tech" Office Fire-Escape in lower left-hand corner.)

Notwithstanding a few unkind and undeserved sentiments that have crept into print, the faculty and assistants have always been on the most friendly terms with the paper. Profs. Nichols, Atkinson, and Cross were almost constant contributors to the column of books and periodicals for reference, and that of M. I. T. publications. Prof. Rogers was much interested in it, and inclosed his subscription in a kind note. Prof. Runkle was always a well-wisher; and an occasional twinkle would steal through two pairs of glasses when he made some charitable allusions to its contents in the class-room.

It is to Pres. Walker that we owe the room The Tech now occupies. For some time after we were obliged to give up the top story, we took possession of the reading-room. I was on the room committee; and although the executive had no place to give us, we regularly haunted his room twice a week. The courtesy and many kindnesses we received made it seem almost an honor to be put off.

Nearly all the professors have been contributors to the paper, the only titled individual from the outer world being the Hon. General Daniel Pratt.

At one time there was a mythical personage in the mining laboratory who went by the name of Hadley. In response to a kind notice posted on the bulletin, several freshmen ('86) sought him in that lower region, and procured passes to the fair.
A few days after, the following notice was found in the letter-rack:—

Mr. J. G. Hadley:

_Boston, Oct. 7, 1882._

_Dear Sir,—_Passes bearing your name, "on account of Hadley's contract for M. I. T. Freshmen," are being presented. No officers of this corporation are aware of any contract with you. We therefore decline to honor these passes, and await your explanation.

_Yours truly,_

_J. T. WOOD,_

_Secretary and Gen'l Manager, Institute Fair._

Another unique communication directed to the "Machinery School, Boston," ran as follows:—

_STATE CENTRE, February 21st._

_Will you please tell me how Your institution is run and what its aim is and if You Would experiment on Preptual motion for half the enterprise in the united States if You had a good theory advanced that looks reasonable and the cost would not be more than the cost of a dump-cart._

_Yours truly,_

_MARSHALL COUNTY, IOWA._

---

_The Presidents of the Board of Directors and Editors-in-Chief since The Tech started, are as follows:_

**Presidents of Directors.**

1881–82. H. WARD LEONARD, '83.
1883–84. HARRY W. TYLER, '84.
1884–85. I. W. LITCHFIELD, '85.
           A. R. McKIM, '85.

**Editors-in-Chief.**

1881–82. ARTHUR W. WALKER, '82.
1882–83. HARVEY S. CHASE, '83.
1883–84. ARTHUR D. LITTLE, '85.
           C. S. ROBINSON, '85.
1884–85. THOMAS W. FRY, '85.

_I. W. L._
ANNUAL.

PUBLISHED BY MEMBERS OF THE JUNIOR CLASS OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

BOARD OF EDITORS, 1885-86.

Editor-in-Chief.
Fred. P. Gulliver.

Warner J. Banes.
Guy Kirkham.
Quintard Peters.
Timothy W. Sprague.
Solomon Sturges.
F. Manton Wakefield.

Business Manager.
Hollon C. Spaulding.
First Tenors
Fred. C. Kendall
Ed. A. Haskell
F. Manton Wakefield
Sidney R. Smith

Second Tenors
Fred. Thompson
Oren S. Hughey
Fred. P. Gulliver
Albert C. Leach

First Bass
Thos. W. Fry
John C. Howard
T. W. Sprague
N. Q. Stewart

Second Bass
Wm. A. Whitney
John L. Shortall
Thos. A. Fox
P. R. Fletcher

E. B. Homer, Director
C. D. Underhill, Accompanist.
Concerts of Glee Club:

1884-85.

Chickering Hall, January 8, 1885.
CONCERT OF TECHNOLOGY GLEE CLUB AND ORCHESTRA.

Hotel Vendome, April 14, 1886.
RECEPTION AND HOP OF TECHNOLOGY GLEE CLUB.

Floor Manager.
FRANK L. LOCKE.

Aids.
ALBERT L. CUSHING.
TIMOTHY W. SPRAGUE.
JOHN L. SHORTALL.
NORMAN Q. STEWART.

Chickering Hall, May 5, 1885.
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SEASON 1885-86.

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First Violin.

EDWARD G. THOMAS, '87.  GEORGE L. MANNING, '87.

FRANK B. MEADE, '89.

Second Violin.

HORACE M. WILSON, '89.  ARTHUR W. JONES, '89.

GEORGE P. SIMPSON, '89.

First Cornet.

CHARLES A. BARTON, '87.

Second Cornet.

WILLIAM S. JOHNSON, '89.

Clarinet.

JOSEPH E. CHANDLER, '89.

Flute.

JAMES P. LYNE, '86.  HERBERT A. RICHARDSON, '87.

GEORGE C. KAUFMAN, '89.

Cello.

CHARLES W. GILMAN, '89.  IRVING L'H. GARDNER, '89.

Bass.

Piano.

THEODORE W. PIETSCHE, '89.
Double Quartet

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Conductor.
L. B. Newell.

J. E. Fuller, Jr.  First Tenors.  B. C. Lockett.

Pianist.
R. M. Fay.
Senior Ball

ODD FELLOWS HALL, APRIL 10, 1888.

Floor Manager,
C. R. Richards, '85.

Committee.
Jas. C. Duff, '86.
S. R. Bartlett, '86.
Chas. Wood, '86.
A. L. Cushing, '87.
J. L. Shortall, '87.
H. C. Spaulding, '87.
Geo. C. Dempsey, '88.
Richard Devens, '88.
W. L. Dearborn, '88.
GYMNASIUM PARTY COMMITTEE.

1884-85.


COMMITTEE FOR FRATERNITY PARTIES.

1885-86.

Chas. Wood, Σ. X.  Guy Kirkham, Σ. X.
Timothy W. Sprague, Θ. Ζ.  M. E. Cobb, Θ. Ζ.

AFTERNOON PARTY COMMITTEE.

1886-86.

THAT LITTLE GAME.

(SORDEAU.)

THAT little game, when she and I
Played chess together, cosily,
Beneath the flaring parlor jet,
A prize it brought to me; and yet
I lost it, I can testify.

For when my knight came sweeping by,
And took her queen summarily,
She pouted archly, in a pet—
That little game!

And as she pressed, defiantly,
Her fan, it somehow chanced—that I—
Well, how it was I just forget,
But there I won my queen, Janet,
Although I lost quite hopelessly
That little game.
PARKER HOUSE, FEBRUARY 20, 1886.

Supper Committee.

Edward A. Haskell.  George O. Draper.
Guy Kirkham.  Hollon C. Spaulding.

Toast-Master.

Frederick C. Todd.

Gastronome.

Guy Kirkham.

TOAST LIST.

Our Alma Mater . . . . . . . . . . . . Frank E. Shepard.

"Each day, each hour, her name I'll—
My morning and my evening song;
And when in death my vows shall cease,
My children shall the note prolong." — Goldsmith.

President Walker . . . . . . . . . . . . Benjamin C. Lane.

"Take him for all in all, we
Shall not look upon his like again." — Shakespeare.

The Ladies . . . . . . . . . . . . . . Charles D. Underhill.

"Trust her not—she's fooling thee."

Athletics . . . . . . . . . . . . . . Solomon Sturges.

"But 'twas a famous victory." — Southey.
TECHNIQUE.

The Faculty. THOMAS A. FOX.

"And there's one rare, strange virtue in their speeches.
The secret of their mastery — They are short." — Halleck.

Football. PERRY R. FLETCHER.

"But yesterday and Caesar might have stood against the world." — Anon.

The Baby. CHARLES E. PRATT.

"A lovely being, scarcely formed or moulded;
A rose with all its sweetest leaves yet folded." — Byron.

The "Semmies." ARCHER C. CORNS.

"Boast not thyself of to-morrow; for thou knowest not what a day may
bring forth." — Proverbs.

"The Tech." HOLLON C. SPAULDING.

"Good things should be praised." — Anon.

Rum. FRANK G. BURGESS.

"I drink no more than a sponge." — Ravelis.

Boston. ALBERT L. CUSHING.

"Alone must thou stand, O City!
Alone at the bar of judgment." — Anon.

'87. EDWARD H. HASKELL.

"Comparisons are odious things." — Anon.
Seniors' Evening

JUNE 1, 1885.

Programme.

OVERTURE ........................................ Quintette.
SONG .................................................. Glee Club.
HISTORY ............................................ F. H. Newell.
ZITHER SOLO ........................................ R. E. Richardson.
POEM .................................................. C. S. Robinson.
SONG .................................................. H. J. Williams.
FLUTE SOLO ......................................... E. B. Homer.
PROPHECY ........................................... R. H. Pierce.
SONG .................................................. Glee Club.

Committee of Arrangements.

FROM ASSOCIATION OF CLASS OF 1885.

CHARLES R. RICHARDS.
THOS. W. FRY.
ELEAZER B. HOMER.
MORRIS L. GREELEY.
SIDNEY WILLIAMS.
Occupations of Alumni:

Whole number of Alumni: 386
Whole number living: 363
Manufacturing business: 64
Edifying youthful minds: 60
In business: 44
Railroading: 40
Civil Engineers: 39
Chemists: 29
Mining Engineers: 17
Mechanical Engineers: 14
Architects: 10
Students: 9
Lawyers: 8
Electricians: 7
Draughtsmen: 7
Physicians: 3
Miscellaneous: 12
THREE SENIORS.

Three Seniors went sailing out into the world,
   Out into the world with a smiling face;
   Each told of his honors, with parchment unfurled,
   And then very quickly they sought for a place.
For students must work, and scholars must weep,
   And there's so much to learn, there is no time to sleep.
   And the Prof's are always pushing.

Three Seniors kept writing, day in and day out;
   They ransacked the town for a salary tall;
   They lived very cheaply on beer and sauer-kraut,
   But their board bill kept growing in spite of it all.
For students must work, and scholars must weep,
   While annuals threaten, and studies are deep,
   And the Prof's are always crowding.

Three barbers are shaving for ten cents a head;
   Their studies are ended, their life-work begun.
If you ask for the reason, 'tis easily read:
   They studied things many, but mastered not one.
For students must work, and scholars must weep,
   Vacation is coming, and then we can sleep—
   And good-bye to the Tech' and its grinding.

---

Student asks Bursar if he shall make out a check for his bill.
Bursar answers in the affirmative, so student goes to the table to write.
At this moment the President appears at the Bursar's window with a
draft to be cashed. Bursar still continuing writing, calls out, "Where
do you come from?" "Boston," answers the President.
M. J. T. Battalion

1885-86.

OFFICERS.

Major.
J. P. B. Fiske.

Adjutant.
H. D. Smith.

Quartermaster.
P. R. Hawkins.

Sergeant Major.
G. C. Whipple.

Captains.
Hollis French.
G. M. Basford.
W. W. Lewis.
S. H. Mildrane.

First Lieutenants.
F. L. Dame.
A. W. La Rose.

Henry L. Rogers.
F. A. Hills.

Second Lieutenants.
C. E. Beals.
E. S. Hutchins.

W. H. Tenney, Jr.
F. E. Calkins.
"Is Mr. Hadley here?"

"Der Esel begegnete dem Wolfe."—C. P. O.

"And the thing is done."—J. D. R.

Papyrographs must go!

"Mr. Wall here?"—H. K. B.

"He smiles and smiles, and yet he is a villain."—El Makdi.

Now is the time to subscribe.

"Please draw the shades."—S. W. H.

"A typical specimen."—W. O. C.

"What makes the wind blow?"—P.-ff-r.

"Horse-chestnut and chestnut horse."—W. P. A.

The last class to give a Freshman Ball—'85.
SLOWLY th' unwilling filtrate trickles through,
Just fast enough to need my constant care;
So, leaning on my desk, I idly stare—
(Through rising fumes that make our inner air
Rival the outer heaven's serener blue)
Across to that row,—last and loveliest,—where
Fair forms relieve the else oppressive view.

Vaguely I wonder,—as my truant mind
Follows their deft manipulations—how
To such monotonous routine confined,
Their softer natures they can rashly bind
Never to take aught but the scholar's vow,
Forget "the proper study of mankind,"
And never, save at Pallas' altar bow.

Now one there is, methinks (no matter which),
Whom I would gladly save, if I but could,
From living Learning's slave—a doubtful good,
To be instead a goddess—and her niche
My heart: her shrine! Ah, modern witch,
With wand of glass, if you but understood—
"Hood! Hood! For heaven's sake, put that in the Hood!"

L.
The Howl-and-Eating Club

MEMBERS.

John K. Burgess.
Maurice du Pont.
Edgar A. Frost.
Frederic P. Gulliver.
Harry B. Merriam.

George W. Patterson.
William M. Taylor.
David Van Alstine.
Maurice A. Vielé.
Charles Wood.

J. V. Wright.
MEMBERS.

Maurice Cooley.
Edward W. Herrick.
William L'E Mahon.
John Peters.
J. S. G. B. Ray.
Frank M. Ladd.

Clarence B. Vorce.
S. W. Bowles, Jr.
Giles Taintor.
A. F. Holden.
Perry Fletcher.
Alex. H. Twombly.
Departments

I.

SCENE: Charles River. Open watch.

He: "Big hand goes around this way; little hand goes around this way; and my hand goes around this way—o—e."

She: ———.

ENGLISH with Mr. Porter.

"FAVORITE drinks," etc., will be furnished upon application.

II.

There was a young Junior named Stoddard,
Who found himself very much bothered:
He performed a great feat,
With a long welding heat,
And his tongs will have to be "soldered."

There was a professor named Lanza,
Who thought he would strike a bonanza;
So he wrote a big book,—
Many pages it took,—
And filled up with stickers each stanza.
TECHNIQUE.

III.

It is rumored that the publication of C-rn-y's notes on "Moisture in Magnetite" has been delayed, in order that they may be bound in with the forthcoming fifty-dollar edition of L-nd-"s "K. K. K." tables.

As "H's" thousand-trip ticket on the Boston & Lowell is now used up, he has been contenting himself with dreaming of the future and practicing building fires.

IV.

Ask J. L. S. to explain the advantages of the American plan.

H. B. S. P. thinks ten by twelve about the right size.

"Gentlemen will not; others must not."

V.

An '88 man recently reported for work in the burette room. Upon asking for instructions, he was told by the assistant that he was to calibrate, interpolate, titrate, calculate, equate, evaluate, and ——. Though he did not hesitate, the Soph was seen to evacuate, and it is supposed he has gone to investigate.

The question was recently asked us, "What is the difference between K-nd-ll's whiskers and a closed mantel bed?" We are awaiting the answer.

We have from the very best authority the following question, asked by a student of one of the instructors in chemistry: "Are our mortars to grind our solutions in?"
VI.

**ELECTRICAL Fruit—Shock-ley apples.**

**Query:** Who was the Electrical that toddled home after the Springfield game?

VII.

**We** revel in smells neither savory nor sweet;

**Remarkable** odors your entrance will greet.

**Though** the students all say, the best
t

way they can,

It's no place to be skinned "by-a-log-

ical" man.

VIII.

**Prof. H——** recently made a great discovery; viz., that the height of Graylock obtained by the method of the boiling point of water agrees very closely with that obtained by the Civil Service.

IX.
COURSE II. FROM A JUNIOR'S STANDPOINT.

MECHANICS is tiresome? Well, I should—but wait,
Just listen awhile and you'll see:
I've had such a struggle with Ganot and Tait,
A rest is a blessing to me.
You've heard the old adage of "too many cooks:"
To Course II. it exactly applies;
And were I to mention the cost of our books,
I'll warrant you'd open your eyes.
'Tis said that G. Lanza is pontiff supreme;
We'll meet him next winter, I trow;
(For though we oft see him in fancy's fond dream,
We've all we can buckle to now.)
In slide-valves, eccentrics (back-action and front),
And cut-offs, at ev'ry degree,
You never could find, I care not where you hunt,
A professor like Cecil H. P.
Another instructor I'll have to omit,
And mention him some other time;
(His name is peculiar, and hard to make fit,
Unless you make liquor the rhyme).
And Samuel Stephens can also be seen,
His locus is room 43;
He sets you to drawing some queer old machine,
And marks all your drawings N. G.
Our friend Mr. Merrill we must not pass o'er,
We've plenty of room on the page;
He, too, was a Junior in—yes, '84,
And seems to be wise for his age.
I might keep on talking, and speak of the past,
Of Schwamb, and of Burrison, too:
But by-gones are by-gones, and time passes fast,
And I've fifty-odd problems to do.
So I'll leave you to ponder on what has been said,
And say if it isn't all true;
Oh, the books? Well, I'll tell you, they're only half read,
And then sold at discount for new.
Republican Torchlight Parade

NOVEMBER, 1884.

INSTITUTE OF TECHNOLOGY REGIMENT.

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Lieutenant-Colonel.

FRANK L. LOCKE, '86.

Majors.

CHARLES F. SPRING, '85.

FRANK E. SHEPARD, '87.

Adjutant.

E. A. HASKELL, '87.

Assistant Surgeon.

W. A. WHITNEY.

R. W. BUSH.

Surgeon.

Chaplain.

R. H. PIERCE.

Paymaster.

Quartermaster.

P. R. FLETCHER.

S. F. SMITH.

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Epilogue

To the reader of the foregoing pages we express the hope that the results of our efforts are such as to merit approbation. Whether modestly or otherwise, we assume such to be in some measure the case, and thank you for your appreciation of our endeavors.

The following pages are no less worthy of your careful perusal, and will, we trust, be of mutual advantage to you, and to those who have so courteously and heartily given financial support to Technique. It is hardly necessary for us to say that the firms represented in our advertising columns are among the leading houses in their respective departments, and that students who are strangers in the city, can go to them with entire confidence. Remember, that "one good turn deserves another," and accordingly give a share of your patronage to those who have advertised with us, and be sure and mention Technique.

Hoping that this last piece of advice may have the desired effect, we lay down our pen with a sigh of relief, our only wish being that you may have more reason to commend, than condemn, the

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