WE GUARANTEE TO MEET IN COMPETITION any Tailoring concern in this city, in the matter of Fit, Quality, and Price.

HIBBARD, MASON CO.,
FINE TAILORING,
Dress Suits, Silk Lined, to Order, $45. 515 Washington Street, Boston.

THE HOTEL HUNTINGTON,
Copley Square and Huntington Avenue.

STUDENTS’ SUPPLIES.
Blank Books, Note Books, Drawing Papers, Pens, Inks of all kinds, Fountain Pens.

PERIODICALS AND MAGAZINES.
Writing Paper and Envelopes with TECH Monogram and Imprint Paper by the pound, at

SOUTHWELL’S,
Corner Dartmouth Street and Columbus Avenue, and 439 Boylston Street.
2d door from Berkeley Street.

OAK GROVE CREAMERY COMPANY,
DAIRY LUNCH ROOM.
445 BOYLSTON STREET, COR. BERKELEY, opp. Y. M. C. A. Building,
Where can be had Sandwiches of all kinds, Soups, Tea, Coffee, and regular Dairy Lunch.

EVERYTHING FIRST CLASS.

Pure Fresh-churned Butter, in Quarter-pound Prints, Five and Ten Pound Boxes, Pure, Fresh Milk and Cream, delivered in Glass Jars. Fresh-laid Eggs.
Pure, Full Cream Cheese, American (plain), Sage, Neufchatel and Edam. All kinds of Fruit Ices.

NELSON L. MARTIN.

STUDENTS’ SUPPLIES.

Drawing Instruments and Materials of all kinds
Get the Best!—FOUNTAIN PENS.—Waterman’s is the Best.

Lowest Prices and Finest Quality of Goods Guaranteed.
At Room 10 Engineering Building and Basement of Architectural Building.

R. J. NORMAN.
There are two kinds of bicycles

Columbias and others.

There are no untried devices in 1896 Columbias. Every detail has been perfected by at least a year's use.

Beautiful Art Catalogue for 1896 of Columbia and Hartford Bicycles is free if you call upon any Columbia agent; by mail from us for two 2-cent stamps.

POPE MANUFACTURING CO.
Factories and General Offices, Hartford, Conn.
Branch Stores and Agencies in almost every city and town. If Columbias are not properly represented in your vicinity let us know.

Bookbinding
IN EVERY STYLE.
ALEX. MOORE, 3 School Street, BOSTON.

C. E. RICHARDSON,
141—Dartmouth Street—141
FURNISHING GOODS, and Agent for DARTMOUTH LAUNDRY.

Orders by mail receive prompt attention. Goods called for and delivered without extra charge.

J. O. LITTLEFIELD,
Tailor and Outfitter,
21, 23 BEACON STREET, BOSTON.

I can offer you a larger and more complete assortment than can be seen elsewhere, and at lower prices for the same qualities. Look in and examine my prices before placing your order.

GOLF BREECHES, RIDING BREECHES, AND DRESS SUITS A SPECIALTY.
DISCOUNT TO STUDENTS.
HASTINGS ...

PHOTOGRAPHER

To the Class of '95, M. I. T.,
Tech Editorial Group '96, and
Tech Institute Committee Group '96.
Special Rates to Students of M. I. T.
$3.50 per doz. for Cabinet Ivorygraphs.
Pastels, Crayons, Water Colors.

No. 146 Tremont Street,
Over Huyler's.
Branch ... No. 1068 Boylston Street,
Corner Massachusetts Avenue.

STANDARD CLOTHING CO.,
MANUFACTURING RETAILERS OF
HIGH GRADE CLOTHING

From both Foreign and Domestic Fabrics.

ALSO ADVANCE STYLES IN TROUSERS, SUITS, AND OVERCOATS.
Full Dress Suits Constantly on Hand.

395 WASHINGTON ST., - - BOSTON MASS.

THE
Union Gymnasium
48 BOYLSTON ST. (near Tremont).

PRACTICAL.

Complete Modern Apparatus.
Popular Classes.

Terms, $5 and $8 per Year.

BOSTON YOUNG MEN'S CHRISTIAN UNION,
WM. H. BALDWIN, Pres.
GEORGE PIERCE, Sec'y.

NEW MAIL
HIGHEST GRADE LIGHT ROADSTER.

$85.

MEN'S AND LADIES' pattern . . . $85
Also TEMPLAR, best medium grade Man's Wheel . . . . . . . $60
ATALANTA, Ladies' Pattern . . . . $60
Boys' and Girls' Wheels . . . . . . $15 up

A few Shopworn and Secondhand Wheels, taken in trade, at very low prices. Bargains. $25, $35, etc.
Catalogue and Secondhand list.

WILLIAM READ & SONS
107 WASHINGTON STREET, BOSTON
L. P. HOLLANDER & CO.,
202 to 212 BOYLSTON STREET AND PARK SQUARE.

SPRING FASHIONS IN YOUNG MEN'S CLOTHING.
EVERYTHING WE OFFER FOR SALE IS EXCLUSIVELY OF OUR OWN MANUFACTURE.
SACK SUITS OF TWEEDS AND HOMESPUNS, $18 TO $26.
KNICKERBOCKER SUITS AND TROUSERS OF IRISH AND SCOTCH HOMESPUNS A SPECIALTY.
Silk-lined Covert Coats, $24.
ALSO, NEW STYLE HATS, NECKWEAR, ETC.

Frank Wood,
Printer,
352 Washington Street, Boston.

Reed & Brother,
ESTABLISHED 1848.

INSURANCE,
No. 50 KILBY STREET, BOSTON.

George W. Reed.
Eugene M. Smith.
George C. Bosson.

Brown & Sharpe Manfg. Co., PROVIDENCE, R.I.

Grinding Machines.
Our machines are made with the intention that they shall be the best in their respective classes. Our tools and appliances for manufacturing we believe are the best attainable. Careful attention is constantly given to insure workmanship of the highest class. Cylindrical bearings are accurately ground; plain bearings are scraped to surface plates; all alignments are made correct. All machinery is subjected to rigid inspection, and in nine cases out of ten to actual operation, and then securely boxed (not simply crated) for safe shipment.
TUTUORING IN MATHEMATICS.

F. H. SAFFORD, A.M.,
80 WENDELL ST., CAMBRIDGE.
INSTRUCTOR IN MATHEMATICS, HARVARD UNIVERSITY.

TUTUORING.

Mr. WM. HERBERT KING, S.B.
(M. I. T. '94),
Will tutor in First Year Subjects
and
Course IX. Studies.

Box 125, Cage.

HOUGHTON & DUTTON.

Pictures, Picture Frames and Mirrors.

No. 3 BEACON STREET—GROUND FLOOR.

We can save you MUCH MONEY on READYMADE FRAMES, which we can sell you for HALF THE PRICE that you would pay for frames made to order.

We also have our own Factory, where we manufacture Mouldings of all descriptions, and can frame your pictures to order at prices far less than you would pay for the same work at picture stores.

We make a specialty of French and German Plate Mirrors of all sizes. Cabinets, Medallion Pictures, etc., etc.

TREMONT AND BEACON STREETS, BOSTON.
CONTINENTAL CLOTHING HOUSE,
MEN'S, BOYS', AND CHILDREN'S CLOTHING,
GENTS' FURNISHINGS, HATS AND CAPS.
Fine custom work made from measure. Uniforms of every description. Special attention given to TECHNOLOGY and ENGLISH HIGH SCHOOL UNIFORMS. Workmanship the best. Prices the lowest.

CONTINENTAL CLOTHING HOUSE,
Corner Washington and Boylston Streets, Boston, Mass.

OF ALL BAR SPRINGS THE FOUR-BAR IS THE BEST
C. E. DAVIS,
Manufacturing and Prescription Optician,
No. 2 Park Square, Rooms 1 and 2, Boston.

MAKER OF THE FINEST CLASS OF PRESCRIPTION OPTICAL WORK AT A SAVING OF 75 PER CENT ON OLD PRICES.

SAMPLE PRICES: Compound Cylinders in Steel (best quality), $2.50. Artificial Human Eyes, to Patient, $4.00. Fifteen per cent special discount to students.

IMPORTER OF ARTIFICIAL EYES. SELECTION PACKAGES FURNISHED

Why use Pond's Extract? Why not something else? Because—

Dr. J. J. THOMAS says: "It is incomparably superior to any extract of Hamamelis I have ever used."
Dr. O. G. RANDALL says: "Nothing can equal Pond's Extract. I have tested others, and yours is four times as strong as the best."
Dr. J. C. MITCHELLSAYS: "Pond's Extract of Hamamelis Virginica is the only reliable article I have found."
Dr. H. K. WEILLER says: "The difference between Pond's Extract and so-called Witch Hazel is the difference between a cent and a dollar."
Dr. H. F. MERRILL says: "It is far superior to any I have used in strength and purity."
Dr. R. J. HARRISON says: "I have never found any extract equal to Pond's."
Dr. POWELL says: "Hereafter I shall use no other than Pond's Extract."

And numerous others of similar purport.

No proprietary article on the market is so much imposed upon as Pond's Extract; but the poor quality of Witch Hazel being manufactured, and the poor results obtained by using it, are fast educating the public to buy the genuine article.—THE WESTERN DRUGGIST.

And that's why.
LONDON OFFICE, 6 SAVILE ROW, W.

THE LARGEST ASSORTMENT OF FOREIGN WOOLLENS SHOWN IN BOSTON
M.I.T. CO-OPERATIVE.
Socially, the winter has been marked by two uncommon successes, the Minstrel Show and the Walker Club Plays, while our architectural and military victories are cause for congratulation. Several new organizations have been founded which are solvent and promise well for the future. Perhaps the most encouraging outlook, however, is in the direction of the Technology Club, and with this as a rallying point, and the energy of Ninety-eight to conduct the various Junior affairs, we look forward to an era of unprecedented success for next season.

To the members of Ninety-six it is our painful duty to bid God-speed. The Class has been since its entrance a model in ability, in enthusiasm, in public spirit. The loss of its leadership will be deeply felt in all the walks of Institute life. May these newest Alumni carry with them the deepest love for Alma Mater, and give a new impetus to the loyalty to Technology which grows daily greater among her graduates.

As to ourselves, we have but little to say. The present Board has done its best to make the paper readable, literary, as far as may be in a technical college, and timely and accurate in its news items,—such, crowned with however small measure of fruition, have been our efforts; and with another year's experience we hope for a larger modicum of success. To all who have helped us in any way during the year we extend our thanks. And we wish to all Technology men a pleasant vacation.

If the scheme for a new building, to be built on the present site of the tennis courts, receives the sanction of the corporation, the Institute will soon mark by visible means an-
other great stride in its growth and usefulness. The new building, as planned, will be used by three courses, Architecture, Chemistry and Biology, each of which has outgrown its present limits. The building will be one hundred and fifty feet long, and open through into the present architectural building. One of its features will be a large museum extending through two stories. The Freshman chemical lecture room will also be placed in the new structure. The rest of the building will be devoted to laboratories and recitation rooms.

The Institute has never made it a policy to build a building and then expect to grow to fill it, but every new addition has been the result of an imperative demand for more room, and, as such, each is a sure and most gratifying evidence of rapid yet solid and healthy growth.

The Class of '99 is to be heartily congratulated on the drill of last Friday night. In every way the affair was a brilliant success, and Technology men have a right to feel as proud of the management of the competition as of the result. Our complete victory was unexpected, and therefore doubly pleasant. Especially is it gratifying to know that our battalion won on all around excellence as the Brown companies excelled in the set-up.

The formation of a Bicycle Club at the Institute has supplied a heretofore existing want. It has long been evident that such a club was needed, owing to the rapid increase in the number of wheels, and the corresponding demand for facilities for keeping them safe during recitation hours. We heartily favor a club which has a reasonable and practical object in view, and therefore hope to see this latest organization become a prosperous and successful one.

The tests which have recently been made of the Chestnut Hill Pumping Station and one of the power houses of the West End Street Railway, by our fourth year students, call attention to the advantage which the Institute derives from its situation in the midst of a great manufacturing district. Permission is readily obtained to test power plants of various sorts in the neighborhood, for their owners are glad to have the efficiency of their apparatus determined with the care which is always used in conducting these tests, and the students are greatly benefited by meeting with the problems which occur in actual practice. Every year more and more outside testing is done as thesis work, and the success which has resulted from the introduction of these tests, during the present term as a part of the regular Engineering Laboratory work, is likely to insure their continuance and increase in connection with this work.

The current school year being so near an end, a great number of the class of '97 are beginning to realize that ere long they must form a decision as to what particular option in their course they will take up for their last year's work at Technology. While we do not believe it is wise to be hasty in this decision, a suggestion is in point to those as yet undecided, in order that all their energies of observation may be put into play during the coming summer, and, if possible, that each man shall endeavor to obtain some practical experience upon which to base his more theoretical work of next year. We believe that much is to be gained by the concentration of efforts along some one line, providing the broadness of view is not endangered. The options are not calculated to turn out specialists; it is believed rather that a man becomes the better specialist by first having pursued a regular course of study. The option gives the student valuable training in some one branch of his course which his inclination or foresight urges him to
take up. Having taken a particular option does not by any means unfit him for taking up his business in one of the others. The general training of his mind to think along scientific lines should enable him to succeed equally well in any one.

Take Course I. for instance. Here we have the Hydraulic option, which is the broadest of the three. Next the Railroad option, which excludes the Hydraulics of the first and substitutes Railroad Design, Construction, and Management, yet retains the fundamental Theory of Structures and Structural Design. The Geodetic option takes up in addition to the fundamental studies more Physical Laboratory work, more work in Geodesy, and more extended mathematics in the Theory of Error of Observations, etc. The choice in Course I. is, as will be found in most of the others, an open one. We feel that a downright mistake cannot be made in any event, and the question rests with the individual as to what work he prefers, or what line of work he expects to take up on graduation. The professors in charge of the various courses will, no doubt, be glad to talk with the students on this matter.

The American Dialect Society at Columbia College has undertaken the work of collecting information about College Slang, as found in the several colleges and universities of this country. To accomplish this purpose, they have sent requests to the English Departments of all the colleges and universities, asking them to bring the matter to the attention of their students. The work of making a collection of the slang used here, at Technology, has been placed in the hands of Mr. George H. McCarthy, '97. We look forward to the accomplishment of this work with interest, and hope that the students will materially aid Mr. McCarthy in it, by sending him any forms of slang that they know to be in use at the Institute.

The Drill.

The Mechanics Hall on Friday evening, May 15th, presented a scene difficult to describe. Difficult, because of its varied lights and shades, bright buttons and brighter faces, gold lace and filigree, pretty gowns and blazing uniforms, and above all the heavy, unsteady intonation, the rise and fall of yells from Tech, Harvard, Brown and Amherst.

Science tells of the existence of a keynote to every animate and inanimate object, a constant drumming on which will cause even the heaviest bridge to fall. The keynote to the bottom of Brown's hopes last night must have been contained somewhere in—

M. I. T. Rah! Rah! Rah!
M. I. T. Rah! Rah! Rah!
M. I. T. Rah! Rah! Rah!
Technology!

because it fell entirely out before the close of the evening.

Considering the size of the hall the battalion competition was a great success, although the individual drill, open to men from Harvard, Brown, Amherst, and Technology, was the feature of the evening, and created great excitement. The squad as it first appeared contained six Harvard men, eleven Amherst men, eight Brown, and fifteen Tech. men. These were put through the manual and the bayonet exercise by the adjutants of the four battalions. All of the men showed up well in the manual of arms, but when they came to the intricate executions of the bayonet exercise they became confused, and were caught by one or two little tricks which completely tied up about half of the men for a minute. When the thinning out came there were left Smith, Kramer, and Montgomery, of Amherst; Turner, Corse, and Cambell, of Technology; Tingley, of Brown; Fullerton and Francis, of Harvard. All these men had had much experience, and, as was
expected, it took a great many movements to weed them out.

The men left for the final trial were Corse, Kramer, Smith and Fullerton. Corse was the favorite, and was heartily cheered both by his fellow cadets and the audience.

The men were given all of the catch commands in tactics, but the decision of the judges had finally to be made on the respective merits of the men, as the trick commands had absolutely no effect. When the gold medal, the first place, was awarded to Corse, the audience went wild. The silver medal went to A. Maximillian Kramer, '96, of Amherst Agricultural College.

The winner of the gold medal, W. Malcom Corse of Medford, has been a prominent drillier in the Massachusetts school regiment for the last four years. He won the senior individual competition and the bayonet competition in the Medford High School competition last year, and also won prizes in the Malden competition a few years ago. His setting up was his best point, and counted for a great deal in the decision.

The battalion drill between Brown and Technology brought out the intense rivalry which has always existed between our school and the Rhode Island university. We surely have every reason to be proud of Nine-nine, as, after the decision had been given, the judges remarked that Brown's only point of vantage was in the set-up of the men, and as their battalion was the University and not a a Freshman one, this point is easily accounted for by the greater age of the men.

After the prizes were awarded by Governor Wolcott, the contestants and their friends enjoyed an hour's dancing. The Brown battalion went to Providence on a special train.

Our competitors who took part in the individual drill were:


The roster of the Brown battalion is as follows:

Field Staff.—Maj., H. S. Mabie; Adjt., J. S. Cook; Sergt. Maj., J. W. Upton.
Co. B.—Capt., T. M. Phetteplace; 1st Lieut., J. F. Dyer; 2d Lieut., J. B. Tingley.

The roster of the M. I. T. battalion is as follows:

Field Staff.—Maj., T. P. Robinson; Adjt., J. B. Furguson; Qm., J. M. Hore.
Co. A.—Capt., P. W. Witherell; 1st Lieut., M. M. Corse; 2d Lieut., J. A. Stetson.
Co. B.—Capt., W. E. West; 1st Lieut., H. S. Mork; 2d Lieut., J. A. Fleming.
Co. C.—Capt., H. L. Morse; 1st Lieut., F. R. Sites; 2d Lieut., H. E. Ashley.
Co. D.—Capt., B. Hannan; 1st Lieut., J. H. Richardson; 2d Lieut., E. E. Pierce.

The hall was divided into sections which were assigned to the different colleges and their enthusiastic backers; and college colors, in banners, streamers and ribbons, gave the hall the appearance so well known at Berkeley Oval and Hampden Park. At one end were the two sections given to Wellesley and Lasell, and one grizzled old war dog was heard to say that it was a question in his mind if the boys showed their set-ups to better advantage, put more snap in their work, and looked more of the soldier throughout at that end or at the other, where on an elevated staging sat the honor guests of the evening.

Among these were acting-governor Wolcott, his staff, General Francis Walker, some twelve or fifteen U. S. Army officers; and a large number of Boston's leading people.

The programme opened with a regimental dress parade by the Tech. and Amherst battalions, which was commanded by Maj. T. P. Robinson of Technology. This was followed by the parade of the Brown battalion under the supervision of Maj. H. S. Mabie.
**Theses.**

**Course X.**


Forster, F. E.—A Comparison of the Laybolt and Doolittle Viscosimeters.


Root, W. L.—On the Determination of Carbonic Oxide, Methane, and Hydrogen by Explosion.

**Course XIII.**

Clary, J. W.—Progressive Speed Trials of Steam Launch Marian.


Crosby, R. W.—Design of a Ninety-foot Racing Sloop.

**Course V.**


Gage, S. De M.—Effect of Salts on the Solubility of One Another.

Lythgoe, H. C.—Condensations with Benzene sulfonic Acid.

Tozier, H. H.—Synthesis of Benzylmethyl Ether.


Thomas, W. H., Jr.—Synthesis of Mesitylphenyl Sulphone.

Hormel, H.—Rate of Decomposition of Hydrogen Peroxide.


Smalley, F. N.—Halogen Addition, Products of Trimethylamine.

Sanborn, L. L.—Action of Bromine and Iodine on Some Fatty Amines.

Tucker, C. W.—Investigation of the Gas from Copper Acetylene.

Goodhue, L. H.—Synthesis of Hexamethylene DiethylEther by Electrolysis.

Hapgood, C. W.—Velocity of the Reaction between Hydroiodic and Bromic Acids.

Moat, C. P.—Action of Heat on a Mixture of Acetylene and Oxygen.

Wason, R.—Rate of Oxidation of Ferrous Chloride by Chloric Acid.

Miss G. A. Van Everen.—Synthesis of Iodopropyl Ethyl Ether.

**Course III.**

Anderson, William P., Jr., with Newhall, Charles S.—Concentration of galena ore from Missouri.

Blake, F. P.—Experiments on washing bituminous coal from Coeburn, Va.

Coolidge, W., with Davis, F. H.—Some experiments on the electrolytic deposition of antimony and arsenic with metallic copper.

Locke, C. E.—Study of a Spitz-Kasten.

Sears, M. A.—Concentration of argentiferous galena-blende ore from Colorado.


Stoughton, B.—Smelting of a Sulphide copper ore.

Thanisch, F. A.—Roast amalgamation of argentiferous blende from Bolivia.

**Course XII.**

Fisher, Miss E. F.—The Geological History of Lake Cochituate.

Graba, A. W.—Faunal Successions in Hamilton Shale of Eighteen Mile Creek, New York.

Rhodes, W. S.—Some Absorption Tests as Applied to Sandstone for Building Purposes.

**Course IV.**

Scofield.—A Rendezvous de Chasse.

Miss Stone.—An Academic Hall and Gymnasium for Radcliffe College.

Sturm.—A City Residence for an Architect.

Shepherd.—A Golf and Country Club.

Bucher.—A Small Court House.

Hopkins.—A Terminal Railway Station.

Fox.—Post Office and Custom House for a Small Town.

Fuller.—A Fraternity house at M. I. T.

Bourne.—A Design for a Free Port of Boston.

Henry.—Private House for Wealthy Amateur.

Willis.—Astronomical Observatory for a Large University.

Smith.—Public Baths for City of Boston.

Miss Lewis.—Club House for Ladies in a City.

Thomson.—Students’ Hall for Smith College.

Chamberlain.—A Country Inn.

Cramer.—A Memorial Building.

Cannon.—A Building for Public Station and Fire Department.

Cummings.—A High School.

Fresch.—A Municipal Market and Exchange.

Garfield.—A Board of Trade.

Von Holst.—A Hospital for a College City.

Jones.—A Theatre for a Small Town.

Nevin.—A Small Railroad Station on two levels.

Rawson.—A City Bank.

---

We had a dream the other night,
When everything was still;
We dreamt that each subscriber came
Right up and paid his bill. —Ex.
Two new cases have been placed in the Engineering Laboratory, one for books, and the other for the records of the various tests.

The Annual Circular for 1896 of the Marine Biological Laboratory at Wood's Holl has been posted in the Biological Laboratory.

Professor Wells is preparing a revised edition of his Trigonometry, which will embrace several desired improvements over the previous edition.

The third year Course I. men wound up their Railroad Engineering Field work last Friday. The work assigned for the day was "running in spirals."

A fifty hour test of the Charlestown power of the West End Street Railway Company was made by the Senior students of the Engineering Laboratory, May 7, 8 and 9.

While the Institute is unfortunate in losing a man of Mr. S. C. Keith's ability, it is pleasant to know that he will still retain his connection with it as a lecturer in Industrial Biology.

An error has been discovered in the key to the Junior Class photograph in "Technique," '97. Number 157 should have borne the name J. W. Killam instead of that of P. E. Richards.

An eight horse-power naphtha engine and boiler has been received by the Engineering Laboratory to be used for thesis work next year. It will also be available for the regular experimental work of the laboratory.

A ticket to the Art Museum admitting four persons has been placed at the disposal of the Biological department by Mrs. Carey of Milton. It is good until April, '97, and may be had upon application to either Professor Sedgwick or Professor Hough.

The Annual Meeting of the Society of Arts was held at the Institute on Thursday, May 14th, at 8 p.m. Officers were elected and reports of committees presented. Mr. Horace See, of New York, read a paper on "The Recent Development of Large Freight Steamers."

Messrs. Woodwell and Smyser, Course II., have arranged an apparatus in the hundred thousand pound beam-testing machine, for testing the strength of pulley arms. They are prepared to test a number of five foot pulleys, which will be loaded to the breaking point.

At the last meeting of the Biological Club, on the 12th, Miss Ballantyne spoke upon "The Physiological Action of Adrenal Extract." Mr. Leighton also spoke upon "The Duration of Heart Standstills with Minimal and Superminimal Vagus Stimulations." This is the last meeting of the Club this term.

Mr. Benj. C. Donham, Course I., '95, is in the office of the Chief Engineer of the San Francisco Bridge Company, of San Francisco, Cal. This is one of the largest and most prosperous engineering companies in the West, and during the past eighteen years has executed works to the aggregate value of more than $20,000,000.

The awards for the Poster Competition for the Freshman Drill are as follows: N. P. Rood, first; O. G. Vogt, second; B. Jones, first mention; H. M. Smith, second mention; C. S. McDonald, third mention. The judge, Mr. Brown, Instructor in Freehand Drawing, announces that the posters in general submitted are of an unusually high grade.

A special circular for the use of graduates or students of other colleges who wish to enter the Institute, has been issued by the
THE TECH

Faculty, showing the preparation necessary to enter any particular year of each of the several courses, and giving a few suggestions in regard to the choice of subjects to those intending to pursue any of the several groups of courses.

The Andover Club held its annual meeting Sunday, May 12th. Officers elected: President, W. C. Dunn; Vice President, S. A. Hooker; Secretary and Treasurer, W. E. West; Executive Committee, W. C. Dunn, Thurlow Washburn, W. E. West. The present freshman class has ten Andover men, the largest number ever sent to a Freshman class at Technology from Andover.

The last lecture of the course in Sanitary science was given by Professor Sedgwick on Thursday, May 14th. This date was the centennial of the first vaccination performed in the world upon a human being. A boy named James Phipps was the first upon whom the discovery was tried, and with this experiment there was inaugurated what has proved to be probably the greatest blessing mankind has known.

The successful designs in the Rotch traveling scholarship competition have been on exhibition in the architectural building. Mr. Boynton, the winner of the scholarship, is an old Technology student, having graduated in the two years’ architectural course, long since abolished. The subject of the design was, “A Post Office and custom house building.” Any Massachusetts student having had two years office experience can enter the competition.

The American Dialect Society, which has groups in several of the larger colleges, is making a study of college slang, and for that purpose has sent notices to the colleges and universities of the country asking that all forms of slang in common use at those universities and colleges be collected and forwarded to the “Dialect Society Committee,” Columbia University. The information desired is: (1) slang words, (2) in what sense the words are used, with example, and (3) what part of speech.

On Wednesday, May 13th, a meeting was held in Room 11 to organize a Bicycle Club. Mr. Riley, ’98, called the meeting to order and asked Mr. Gardner, ’98, to speak about securing the proper accommodations for wheels at the buildings. It was voted that the temporary officers of the club consist of a chairman and a constitutional committee. Mr. Riley was elected chairman, and he appointed the following committee: Mayer, Jones, Coburn, Hamburger, and Gardner.

Referring to the number of The Tech issued on April 9th, it will be seen that the thesis subject chosen by J. Driscoll, Course I., ’97, is a “Design for an Arch Bridge over the Parkway and Railroad at Longwood Avenue.” A few days since a design was submitted by the firm Messrs. Shepley, Rutan, and Coolidge, of Boston, for an arch Bridge at this point. The arch in the latter design is somewhat larger than that chosen by Mr. Driscoll, but, from the description given, the two structures would not be far different. The crucial test of a scheme put forth in a thesis is, “Is it practicable?” Mr. Driscoll’s effort stands this test and deservedly commends him to professional recognition.

My Desire.

I would build me a cot by the side of a stream,
There to dwell in contentment and peace,
Where a man like myself could in solitude dream
And from debts and my cares find release.

I would build me a window where ivy might climb
And the apple-blooms whisper to me;
‘Mid the roses and pinks and the sweet-smelling thyme
Could the roam of my fancies be free.

I would ask a dear sweetheart to live there with me,
And our joy would be one long dream day;
Secure from all things we forever would be
In our cot by that stream far away.
The Legislature of Virginia has enacted a law forbidding the sale of liquors to the students of the University of Virginia.

The Senior Class of the University of Michigan has decided to give their university a cast of the arch of Trajan for a class memorial.

The Hudson River at Poughkeepsie has been chosen for the four-cornered boat race between Harvard, Cornell, Columbia, and Pennsylvania on June 26th.

A new fraternity has been formed at Yale, known as the Kappa Beta Phi society. It is to consist of students not receiving Junior year appointments, and is to be a take-off on the famous Phi Beta Kappa society, admission to which is based on high class-room standing. The principles of the society, according to the constitution, shall be conducive to originality in scholarship, intellectual independence, and to a broad and proper appreciation of the educational value of college life outside of the class room.

Mr. Caspar Whitney has decided in regard to the question of eligibility of football players, which was referred to him by Harvard and Pennsylvania, that no man who has played four years on college teams shall be eligible. The decision bars out Captain Williams and Fullback Brooke, of the Pennsylvania team, both of whom have played more than four years, but were still eligible under the Pennsylvania rule, which allows a man to play four years on a Pennsylvania team, no matter how long he may have played elsewhere.

The New England Intercollegiate Games will be held at Worcester on Saturday, May 23d.

At the recent meeting of the Executive Committee of the Football Association E. F. Russ, '98, was elected secretary-treasurer.

Captain Cummings called out the track team on Wednesday, May 13th. The team has been training every afternoon on the Irvington Oval under the direction of Mr. John Graham.

The captains of the Yacht Club met Thursday afternoon, May 14th, to make plans for the annual cruise. It was decided to hold the cruise on the south side of the Cape, as was done last year. The plan is to rendezvous at Newport, and then cruise north, visiting New Bedford and other Buzzard's Bay ports, and thence to Vineyard Haven. The fleet will return to Newport and proceed south, stopping at New London and disbanding at Shelter Island. Commodore Swasey will be in command.

The affair of last Friday with its combination of the gay panoply of war and the more soothing exterior of mild-eyed peace, rejoiced the Lounger's jaded heart. From the early morning, when the calm corridors of Rogers were profaned by rattling muskets and by bristling bayonets, all was excitement, and quiet Boston seemed turned for the time being into a [Freshman] Military Camp. The battalion, as it moved down Boylston Street at five o'clock behind its gallant Colonel Commandant, was an impressive and edifying spectacle. In no wise could these serried ranks be mistaken for those of the Boston school boys, who evoluted upon the same day, especially since the latter were distinguished by resplendent ducks. Finally, in the evening, Mechanics Hall was the scene of a most brilliant gathering, and tender memories of the Grand Opera and the Horse Show struggled for mastery within the Lounger's breast. He had the good fortune to sit in the east-southeast-by-south portion of the Hall, whence he could command an excellent view of the rival flower gardens from our sister educational Institutions, Wellesley and Lasell. Said floral display was exceedingly pleasant to look upon, and the Lounger regretted deeply that the second delegation was forced to leave somewhat early, on account of the necessity of being within doors as usual at nine o'clock. The members of our own Sophomore Class were present in some numbers and added to the eclat of the occasion, and at the same time demonstrated their superior age and dignity by a more or less continuous explosion of torpedoes. Altogether the quality of the affair was excellent, and as for the quantity no one could possibly complain. Indeed, when, after fifteen or twenty hours of marchings and firings, the last two companies appeared!, their advent was greeted with something like a sigh; and only the faithful held out until the award of prizes. Those who did, however, were well repaid by the news of our double victory, and by the little dance which followed the more martial events of the day. The Lounger himself enjoyed one blissful turn which forms a bright spot in the dim caves of memory.

It is pleasant to note the development of a new channel for the energy and scientific spirit of Course IX. The Magnates of Columbia College have undertaken the preparation of a dictionary of College Slang, for the use of Professors who wish to be up to date in lecturing to their classes. The project is a promising one, and meets with the Lounger's hearty approval. Indeed he would have offered his own services in the collection and explanation of the various idioms current among us, had not a more suitable agent been procured. The English Department, being itself engaged in the collection of short stories and humorous sketches from various sources, has deputed this new enterprise to a distinguished member of the Junior Class not unconnected with an official position in the Yacht Club. His rosy cheeks and modest, but genial, manner are well known to all, and it is to be hoped that every man whom he approaches will "slang" him to his heart's desire.

The Lounger has learned definitely that his fears of being torn harshly from the Institute and cast out upon an unfeeling world with no protection but a bit of parchment, are unfounded. For another year the considerate faculty have decided to keep him at their side, to aid the lowly and to reprove the proud. He does not feel that the prospect is altogether an unpleasant one. A connection of some years duration has brought with it a great fondness for Technology, and each season is enlivened by new hopes. Thus there is always the possibility that the members of a football team may train faithfully and achieve victories; that a "Technique" Board may be elected without wire pulling; that a dramatic organization may give two performances without running into debt; that a class may arrive at the Institute which shall not quarrel with Descrip. or go to sleep in Physics. The Lounger looks forward to next year therefore with chastened, yet hopeful, expectancy. He thinks with especial favor of the new Technology Club, where he intends to have a snug corner fitted up in which to smoke and chat and study human nature. Here he anticipates meeting his friends of Ninety-six when they return as opulent and successful "old grads" to revisit the scenes of their youthful frolics. And here he will greet once more the lower classmen after what he trusts may prove a merry and invigorating vacation.
## Index to Volume XV.

### A Child
- Page: 297

### Advantages and Opportunities Offered to Graduates in Civil and Sanitary Engineering
- Page: 152

### American Students in French Universities
- Page: 203

### An Interrupted Idyl
- Page: 279

### An Unsatisfactory Romance
- Page: 126

### Architectural Society
- Page: 92, 68

### BASE BALL.
- '98 vs. Harvard, '99
- Page: 292
- Page: 292

### Beaux Arts Competition
- Page: 248, 268, 281

### Cane Rush
- Page: 90

### Christmas Number
- Page: 120

### Class Championship Games
- Page: 113, 147

### COMMUNICATIONS.
- Class Day Committee
- Page: 111
- Trophy Room
- Page: 202
- Institute Committee
- Page: 232
- Walker Club
- Page: 255
- Der Deutsche Verein and L'Avenir
- Page: 287

### Cycling Association, Harvard
- Page: 207

### Degeneration
- Page: 37

### DINNERS.
- Annual Alumni
- Page: 140
- '96 Class
- Page: 139
- '97 Class
- Page: 286
- '98 Class
- Page: 212
- '99 Class
- Page: 194
- M. I. T. Society of New York
- Page: 234
- Walker Club
- Page: 192
- Dr. Brown, Address of
- Page: 182
- Drill, Competitive
- Page: 263, 307

### ENGLISH PLAYS.
- Page: 138, 164, 184, 237, 263
- Foot Ball
- Page: 67
- '98 vs. '99
- Page: 90
- Technology vs. Exeter
- Page: 16
- Technology vs. Andover
- Page: 25
- Technology vs. B. A. A.
- Page: 35
- Technology vs. Dartmouth
- Page: 36
- Technology vs. Brown
- Page: 45
- Technology vs. Amherst
- Page: 46
- Technology vs. Chicago Athletic Association
- Page: 57
- Technology vs. Tufts
- Page: 58
- Technology vs. Brown
- Page: 77
- Technology, '99, vs. Tufts, 2d
- Page: 68
- Future of '98
- Page: 214
- Greeting
- Page: 3
- Her Birthday
- Page: 89
- Honors for Technology Women
- Page: 6
- Indoor Meet
- Page: 223
- In the Station
- Page: 127
- Intercollegiate Drill
- Page: 287
- Junior Week Number
- Page: 254
- The Junior Promenade
- Page: 257

### LECTURES.
- Lowell Free Lectures
- Page: 47
- Mr. Joseph Blachstein
- Page: 273
- Professor Frank Vogel
- Page: 262
- Mr. S. M. Sayford at Y. M. C. A.
- Page: 136
- Mr. Woodbridge, to Walker Club
- Page: 104

### Mass Meeting for the U. of P. Meet
- Page: 232

### McNalphy, Parker Reed
- Page: 278

### "Military Instruction in Schools," by Captain John Bigelow
- Page: 246

### Military Science
- Page: 185, 291

### Minstrel Show
- Page: 132

### Musical clubs.
- Technology vs. Brown
- Page: 184
- Colonial Club, Cambridge
- Page: 203
- East Boston
- Page: 239
- The Spring Concert
- Page: 236
- Wellesley Concert
- Page: 173

### My Matter of Fact Cousin
- Page: 269

### Naval Engineering Bill
- Page: 192

### New Appointments
- Page: 298

### Ninety-Eight Number
- Page: 212

### Olympic Games
- Page: 269

### Phi Beta Kappa
- Page: 6

### Philadelphia Alumni Association
- Page: 270

### Physical Exercises and their Beneficial Influence:
- I.
- Page: 224
- II.
- Page: 233
- III.
- Page: 239

### Portfolio of '96
- Page: 185

### President Walker's Report
- Page: 123

### Promotions
- Page: 9

### Push Ball at Harvard
- Page: 39

### Reception of THE TECH editors
- Page: 259

### "Regret," A Pastel
- Page: 238

### Resolutions:
- Marshall Mar Dickson
- Page: 88
- Max Carleton
- Page: 138
- Percy Farnham Lawrence
- Page: 183
- Parker Reed McNalphy
- Page: 298

### Roentgen's Cathode Rays
- Page: 163

### Schedule of Semi-Annual Examinations
- Page: 154

### Schedule of Annual Examinations
- Page: 300

### Society of Arts
- Page: 25

### Southern Club
- Page: 281

### Summer School of Architecture
- Page: 5, 184

### Summer School of Metallurgy
- Page: 69

### Technique Board of '98
- Page: 216

### Technique Electorial Board of '98
- Page: 217

### Technique Review
- Page: 244

### Technology Club
- Page: 299

### Tennis Association
- Page: 47

### Thanksgiving Number of THE TECH
- Page: 86

### The Question: A Romantic Sketch
- Page: 203

### The Sociological Thesis
- Page: 174

### U. of P. Meet
- Page: 207, 248, 261, 277

### Y. M. C. A.
- Page: 5, 193

### Yacht Club
- Page: 68
Noyes Brothers.

Opening of Humber Bicycles

And Ladies' and Men's Outing Goods.

2,000 of the Choicest Styles we have ever shown, and all Exclusive Patterns in Madras, Cheviots, Oxford Cloths and French Flannels.

Orders will be taken for Ladies' Golf Waists, Ladies' Shirts, Shirt Waists, Jackets, Skirts and Entire Suits, or sold by the yard in Dress patterns, if desired. Also for Children's wear.

For Men's and Youths' Business, Neglige and Outing Shirts. Dress and Business Shirts, $1.50, $2.00, $2.50 and upward. Neglige Shirts, $1.50, $2.00 and upward.

Pajamas or East India Sleeping Shirts, and Long Night Shirts, made from English Flannels, Cotton and Silk, for steamer, sleeping car, yachting, or hunting.

Noyes Brothers, Washington and Summer Sts., Boston, Mass., U. S. A.

If You Draw,

Purchase Your . . .

Drafting Instruments, Drawing and Blue Process Papers, Scales, Triangles, Curves, T Squares, Colors, etc., from the Manufacturers.

Wadsworth, Howland & Co., Incorporated.

Branch Store: Grundmann Studios, adjoining Architectural Building.

Main Office: 82 & 84 Washington St., Boston.

Factories: Malden, Mass.

Special Rates to Students.

Chauncy Hall School

Has Long Made a Specialty of Preparation for Technology.

Reference is made to the Institute faculty in regard to the thoroughness with which Chauncy-Hall pupils are fitted, not only for entering the Institute, but also for pursuing successfully their subsequent work. Preparation, also, for business and for college.

398 Boylston Street, Boston.

(Very near the Institute.)
ALBERT BENARI, 
Tobacconist,
33 TREMONT STREET, - - BOSTON, MASS.
Cigarettes, Tobacco, and Smokers' Articles.
Agent for Hale's Smoking Mixture.

Scientific Books
DAMRELL & UPHAM,
The Old Corner Bookstore,
283 Washington St., Boston.

DR. CHARLES P. VESPER,
DENTIST.
194 Boylston Street, opp. Public Garden,
Boston.

CLASS-DAY INVITATIONS,
BLANK BOOKS, FOUNTAIN PENS,
CAN BE FOUND AT THE CO-OPERATIVE STORE,
H. H. CARTER & CO., 5 Somerset St., near Beacon.

MANDOLIN, Banjo and Guitar Lessons.
Instruments, Best Strings, Latest Music, etc.
G. L. LANSING, No. 171 Tremont St.
Ask for Mr. Lansing.

Gentlemen! I wish to call your attention to the
fact that I am paying the highest Cash Prices for Cast-off Clothing. Also
Cleaning and Repairing done at short notice.
Money to loan. Send postal to . . . .
M. KEEZER,
117 1-2 Pleasant Street, Boston.
I can be found outside the Technology Buildings on Boylston St. daily.

MESSNER & JONES,
Makers of
Men's Clothes,
388 Washington St., Boston.

Riding, Knicker and Golf Work
A Specialty.

New Tech Fin.
HENRY GUILD & SON
1433 Washington St., Boston.
Have the best Tech Pin yet for 75 cents; also a combi-
nation of gold and silver for $1.25. For sale at the
Institute and
433 Washington St., Boston.

STUDENTS
Are using Boston Linen, Boston Bond and Bunker Hill Papers and Envelopes in the different Colleges and
Seminaris throughout the United States. We have over 250 varieties
from which they select.
SAMUEL WARD COMPANY,
Paper Merchants, Stationers, Engravers and Printers,
40 Franklin Street, Boston.

ALL KINDS
Woodworking Machinery.
S. A. WOODS MACHINE CO.
172 High Street, Boston.

COLUMBIA TAILORING ROOMS,
Ladies' and Gents'
FINE TAILORING.
DRESS SUITS TO LET.
Fancy Dyeing and Cleansing. Goods called for
and delivered free.
597 1-2 TREMONT ST., BOSTON.
I. SHEINWALD, Manager.

PHILADELPHIA ICE CREAM COMPANY,
- 150 Tremont Street, Boston.
Telephone No. 1060.
E. M. LAWS, Prop.
Ice Cream Soda a Specialty.
Afternoon Delivery to Brookline and Highlands.

TECH Trade Solicited.
REPAIRING, ALTERING, AND PRESSING
Done promptly and in satisfactory manner.
Latest Style GARMENTS Made.
A. MOSMAN,
433 Boylston Street
(near Berkeley Street).

CHAS. C. HUTCHINSON,
SURVEYING INSTRUMENTS,
Charts, Books, and Compasses.
150 AND 152 STATE ST., BOSTON.
ARCHITECTURAL PHOTOGRAPHS,
The Largest Collection In America.

All the best Public Buildings, Churches, Private Houses, and Business Blocks in Boston and New York. Richardson's Works of Importance from all over New England. Also a complete line of Art Photographs for Room Decoration.

STUDENTS WELCOME TO EXAMINE, WHETHER DESIRING TO PURCHASE OR NOT.

SOULE PHOTOGRAPH CO., Publishers,
338 Washington Street, Boston.

FALL GOODS NOW READY.

STUDENTS WELCOME TO EXAMINE, WHETHER DESIRING TO PURCHASE OR NOT.

SOULE PHOTOGRAPH CO., Publishers,
338 Washington Street, Boston.

Boston Theatre.—“Shore Acres” is having a deservedly successful run at the Boston Theatre. It is a charming New England story, and Mr. Herne and his very excellent supporting company have succeeded in capturing the hearts of the audiences which nightly crowd the house.

Park Theatre.—“The Village Postmaster” is drawing crowded houses at the Park Theatre. The pictures of village life in this play make it most interesting, and plays of this character always touch a responsive chord in the hearts of American people.

Hollis Street Theatre.—The engagement of “The Sporting Duchess” will certainly have to be extended in order to give everybody a chance, as crowds are nightly standing in line waiting in vain to get seats, and standing room is at a premium. This gay fin de siecle play has taken the town by storm. It certainly is a tremendously fascinating play and no one should fail to see it.

Boston Museum.—A very great pleasure is in store for the patrons of the Boston Museum on Monday, May 18th, when Alexander Salvini opens his engagement with “Othello.” This will be of particular interest to all those who have seen his father in that famous character. The young man has already won a name for himself, and a host of ardent admirers will give him a hearty welcome.

LEADING OUTFITTERS
OF
High Grade Mackintoshes
AT POPULAR PRICES.
For the Principal Colleges in New England, Regular Co-operative Discounts.

CLEVE & KRIM,
Metropolitan Rubber Co.
49 Summer Street, Boston.

Shoes of Sense
Full of comfort from toe to heel—wear like a good shoe should wear . . . .

Thayer, McNeil & Hodgkins,
47 Temple Place, Boston.
THE LATEST LONDON NOVELTIES
FOR MORNING, AFTERNOON AND
EVENING WEAR.
SOME NEW, EXCLUSIVE STYLES
IN RIDING BREECHES AND GOLF
SUITS.

TRANSERIT BUILDING, BOSTON.

COWLES ART SCHOOL,
145 Dartmouth Street.
Special attention given to Evening Classes for Tech
Students in life and cast drawing.

Address —
F. M. COWLES, Manager.
Tuition, $4.00 per Month. Three Evenings per Week.

THE BRUNSWICK
BOSTON.
Boylston and Clarendon Streets,
(Adjoining Copley Square)
Near the Museum of Fine Arts,
New Public Library, New Old
South Church, and opposite
Trinity (Phillips Brooks')
Church, and Institute
of Technology.

KEPT ON BOTH AMERICAN AND
EUROPEAN PLANS.

BARNES & DUNKLEE, Proprietors.
H. H. BARNES, Manager.

WRIGHT & DITSON,
Fine Athletic Supplies
OUTFITTERS TO THE LEADING NEW ENGLAND COLLEGES.
Lawn Tennis, Baseball, Golf, Uniforms and Supplies. Wright & Ditson's celebrated Tennis Rackets
and Official Lawn Tennis Ball, adopted by the National Lawn Tennis Association, and must
be used in all games. Baseball Supplies, Balls, Bats, Mites, Masks, Chest Protectors, etc.
Mail Orders will receive prompt and careful attention.

WRIGHT & DITSON, Boston, Mass.
Wholesale, 95 Pearl Street.
Retail, 344 Washington Street

DAME, STODDARD & KENDALL.
We are making a specialty of
FOOTBALL AND GYMNASIUM CLOTHING.
Also carry everything pertaining to Football and Gymnasium Purposes
Discount to Tech students.

NOS. 370, 372, AND 374 WASHINGTON ST., OPP, BROMFIELD, BOSTON.
The Richmond Straight Cut No. 1 Cigarettes.

Cigarette Smokers who are willing to pay a little more than the price charged for the ordinary trade cigarettes, will find this brand superior to all others.

These Cigarettes are made from the brightest, most delicately flavored, and highest cost Gold Leaf grown in Virginia. This is the Old and Original Brand of Straight Cut Cigarettes, and was brought out by us in the year 1875.

Beware of imitations, and observe that the firm name as below is on every package.

ALLEN & GINTER
THE AMERICAN TOBACCO CO., SUCCESSOR,
Manufacturer, RICHMOND, VIRGINIA.

QUICK LUNCH
BOYLSTON CAFÉ,
A. ALGAR, Proprietor.
707 BOYLSTON ST., corner Exeter.

HOTEL PLAZA,
419 Columbus Ave., Boston.

Pioneer of the new hotel center in Boston. Noted for its superb location, superior rooms, excellent cuisine and service. Standard hotel for giving more value for price than any first-class hotel in city.

BARBER SHOP
Everything in connection first class.
College work solicited.
Shaving, 10 cents.

BILLIARD ROOM

THE RIGHT PLACE TO BUY
MATHEMATICAL INSTRUMENTS,
Colors, Drawing Papers, Blue Process Papers, T-Squares, Scales, Curves, Triangles, and all kinds of Architects' and Engineers' Supplies and

Artists' Materials
AND PICTURE FRAMES, IS AT
FROST & ADAMS CO., 37 CORNHILL, BOSTON, MASS.
NEW CATALOGUE FREE ON APPLICATION. Importers, Wholesale and Retail Dealers.
Special Rates to the M. I. T. Students.
"GET A REGAL ON."

Tech Boys wear them.

100 STYLES. $3.50 109 Summer St.,
"FROM US TO YOU." A PAIR.
BOSTON, MASS.

Priest's Dining Room,
102 Dartmouth Street, Boston.

21 Meals (full ticket), $4.00. 14 Meals, Breakfast and Dinner, $3.00. 7 Meals, Breakfast, $1.50.
7 Meals, Lunch, $1.20. 7 Meals, Dinner, $1.75.

Hours for Meals—Week Days: Breakfast 6 to 10; Lunch, 12 to 2:30; Dinner, 5 to 8. Sundays: Breakfast, 8 to 10:30; Dinner, 12:30 to 3:30; Lunch, 5:30 to 7:30.

C. M. PRIEST, Proprietor.

NECKWEAR
L. E. FLETCHER & CO.

College Hatters and Outfitters.

Latest Styles and Popular Prices. Custom Shirts a Specialty.

M. I. T. CO-OPERATIVE SOCIETY.

GLOVES
No. 158 Boylston Street, Boston.

UMBRELLAS
CANES