“One Hundred + + Health Hints.”

Written by Prof. Robert J. Roberts, the originator of the famous “Roberts Dumb-bell Drill.”

A copy of this little volume will be presented to young men visiting the Gymnasium of the Boston Young Men’s Christian Association, cor. Berkeley and Boylston Streets. Open every week day from 8 A.M. to 10 P.M.

JAMES L. GORDON,
General Secretary.

GEO. ALLEN, Jr.,
Secretary Main Department.

THE HOTEL HUNTINGTON,
BOOBY SQUARE AND HUNTINGTON AVENUE.

Offers large and pleasant outside rooms, from $7.00 per week upward.

Dining rooms conducted on both American and European systems.

At reasonable rates.

LEVY B. GAY, PROPRIETOR.
FREDERIC LORING, Manager.

ARTHUR S. DOANE & CO.,
ENGRAVERS AND STATIONERS,
27 KILBY STREET,
BOSTON.

WEDDING AND VISITING CARDS.

GENERAL ELECTRIC COMPANY.
EDISON AND THOMSON-HOUSON SYSTEMS.


SEND FOR OUR CATALOGUES

BRANCH OFFICES:

520 Atlantic Avenue, Boston, Mass.
601-175 Adams Street, Chicago, Ill.
264 West Fourth Street, Cincinnati, O.
Gould Building, Atlanta, Ga.
15 First Street, San Francisco, Cal.

42 Broad Street, New York.
509 Arch Street, Philadelphia, Penn.
401-407 Sibley Street, St. Paul, Minn.
Masonic Temple, Denver, Col.

YOUNG MEN’S SHOES

Fashionable, Durable, and Moderate in Price.

Co-operative discount to students of Tech.

Thayer, McNeil & Hodgkins,
47 TEMPLE PLACE, BOSTON.
THE CRAWFORD SHOE
IS MADE EXPRESSLY FOR GENTLEMEN.

WHEN WE MAKE THE ABOVE ANNOUNCEMENT WE MEAN JUST THIS:

It is made in Proper Style,
Of the Best of Material,
By the Best Workmen we can Hire.

It is not, like hundreds of factory-made shoes, made for shoe dealers to sell at $3.00 or $4.00 through extensive advertising.

We do an immense business in Boston, New York, Philadelphia, and other large cities on our Crawford Shoe alone, and we do it on the GOOD REPUTATION of our shoe.

Think of this, visit one of our stores, and examine the shoes for yourself. They are JUST AS GOOD as they look.

CRAWFORD SHOE STORES IN BOSTON.

611 WASHINGTON ST., opposite Globe Theatre.
255 WASHINGTON ST., next door to Thompson's Spa.
Under UNITED STATES HOTEL, cor. Kingston St.
45 MAIN ST. (Charlestown Dist.), Boston.
60, 21 and 24 PARK SQUARE, near Providence Depot.
9 and 19 BOYLSTON ST., near Columbus Avenue,
Under UNITED STATES HOTEL, cor. Kingston St.

BOUVE, CRAWFORD & CO. Corp., Maker.

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

HOMEWARD BOUND.

BY SEA AND RAIL.

The Norfolk Route.
The palatial steamships of the Norfolk Route ply semi-weekly and direct between
BOSTON, NORFOLK AND BALTIMORE,
Sailing from Central Wharf, Boston,

Every Tuesday, Thursday and Saturday, at 2 o'clock P.M.

Connecting with Rail and Water Routes for Washington, D.C., the South, Southwest, and Pacific Slope.

You are respectfully invited to inspect our steamers, and see for yourself the accommodations offered.

C. P. GAITHER, A. M. GRAHAM,
Soliciting Agent, Agent,
200 Washington St., Central Wharf,
BOSTON, MASS.

ALL RAIL.

The Shenandoah Valley Route.
The Shenandoah Valley Route connects with all lines from Boston to New York, and thence is via the world-renowned Pennsylvania Railroad, or picturesque Baltimore & Ohio, passing through Philadelphia, Harrisburg, Hagerstown, Antietam Battlefield, Old Charlestown, made famous as the place where John Brown was executed, or Washington, Shenandoah Junction, the wonderful Caverns of Luray, the historic Natural Bridge, on to Roanoke and the magic cities of the New South, Bristol, Knoxville, Chattanooga, Nashville, Decatur, Florence Sheffield, Corinth, Grand Junction, Memphis, Little Rock, and Texas.

Kansas City, Colorado, Utah, and the Pacific Coast.

Chattanooga, Fort Payne, Birmingham, Meridian, Vicksburg, Shreveport, Texas,—Cleveland, Tennessee, Dalton, Rome, Anniston, Calera, Selma, Montgomery, Mobile, New Orleans, Old and New Mexico, and the Pacific Coast.

Atlanta, Macon, Jesup, Brunswick and Florida.

Through Pullman Car service from New York, Washington and Norfolk, to Roanoke, Louisville, Knoxville, Chattanooga, Nashville, Memphis, Birmingham, New Orleans,

C. P. GAITHER, N. E. Agt., 200 Washington St., Boston.
**Priest's Dining Rooms.**

100 and 102 Dartmouth Street.
397 Columbus Avenue.

**Mr. Hale's School for Boys,**

5 Otis Place, Boston.

Prepares for the Institute of Technology and for Harvard College.

Inquire of the former pupils of the school who are now in the Institute in regard to the preparation given.

**The Union Gymnasium**

48 Boylston St.
Boston.

Season of 1892-93.

The Union Gymnasium opens October 10th, after extensive repairs and additions.

**Latest Sanitary Plumbing.**

Entirely new and improved bathing facilities and new apparatus, part of which has never before been introduced into any gymnasium, making it the most completely equipped and largest gymnasium in Boston. It is above the street level and open to light and air on every side.

Cards with full particulars may be had upon application.

**Terms.**

Including the Union Membership (One Dollar), and entitling to all its privileges.

For One Year, use of Gymnasium after 7.00 P.M., and on holidays for such time as it may be open, $5.00

For One Year, use of Gymnasium at all times when open, $8.00

Keys, to be refunded on return of same, .50

James W. Montgomery, Supt.

German F. Hoffman, Asst. Supt.

Edward O. Otis, M.D., (Harv.) Medical Director.

George Peirce, Sec'y.

Wm. H. Baldwin, Pres.

**Drafting Instruments**

Selected with especial reference to the requirements of Students of the Institute.

Scales, Triangles, Curves, T Squares, Etc.

Wadsworth, Howland & Co.,

82 and 84 Washington Street, Boston.

Special rates to students.

267 State Street, Chicago.
L. P. HOLLANDER & CO.

NEW AND CORRECT STYLES FOR FALL AND WINTER.


HIGH-CLASS FURNISHING GOODS. ENGLISH AND AMERICAN HATS AND CAPS.

Best Goods at Very Reasonable Prices.

202-212 BOYLSTON STREET and PARK SQUARE, BOSTON.

BE SURE TO SUBSCRIBE

EARLY THIS TERM

to the

WEEKLY TECH.

SPECIAL RATES TO STUDENTS!

F. J. KALDENBERG CO.,

MANUFACTURER OF

Meerschaum and French Briar Pipes, Cigar and Cigarette Holders,

AND AMBER GOODS.

Walking Sticks, mounted in Gold, Silver, Ivory and Buckhorn.

CLASS CANES,

Made and Mounted after any Design.

PIPES BOILED, REPAIRED, AND MOUNTED IN GOLD AND SILVER.

Repair Work and Engraving done on the premises.

338 WASHINGTON STREET.
ELECTRIC MOTORS
FOR
ALL POWER PURPOSES.

ELECTRIC
Hoisting Apparatus.

Thomson-Houston
Motor Co.,
620 Atlantic Ave.,
BOSTON, MASS.

EDISON AND THOMSON-HOUASTON.

DANCING.

WALKER'S PRIVATE ACADEMY,
No. 24 DWIGHT STREET,
Evening Classes from Oct. 1st to May 1st.
Private Lessons daily from 10 to 6.
Please call or write.

Drawing Boards, Papers,
Inks, Pens, Instruments, and Fountain Pens
At Discounted Rates.

A. D. MACLACHLAN,
Tech. Co-operative Store,
214 Clarendon St., Boston, Mass.

The Electrical Engineer.

A Weekly Review of Theoretical and Applied Electricity.

ARE YOU a STUDENT, an ELECTRICAL ENGINEER, an ELECTRICAL EXPERT, or in any way interested in Electricity? In any case you will find THE ELECTRICAL ENGINEER an interesting and useful weekly visitor. It is the oldest general electrical journal in America, and the leader in technical excellence and enterprise. THE ELECTRICAL ENGINEER is in magazine form, convenient for reading, preservation and binding, and is amply and artistically illustrated. It is always up to date with electrical progress. Subscription, $3.00 per year.

Address ...

The Electrical Engineer,
203 Broadway, New York.

Subscriptions received at special student rates by the Editors of "The Tech."
SAMUEL USHER,
PRINTER,
NUMBER 171 DEVONSHIRE STREET,
BOSTON, MASS.

All kinds of School and College Printing for Classes and Fraternities executed promptly, and in the highest style of the art, at reasonable rates.

ESTIMATES CHEERFULLY FURNISHED.

BANJO AND MANDOLIN.

G. L. LANSING,
Teacher, and Director of Clubs,
58 A WINTER STREET, BOSTON.

BEST INSTRUMENTS CONSTANTLY IN STOCK. MUSIC. STRINGS, ETC.

ABRAM FRENCH CO.,
89, 91 and 93 Franklin Street,
IMPORTERS OF
China, Glass and Fancy Pottery.

Wedding and Birthday Gifts
A SPECIALTY.

ALL THE LATEST
PATTERN,
RICH CUT GLASS.

DINNER SETS,
From the Lowest Cost
to Highest Grade.

WE ARE THE LARGEST IMPORTER OF HAVELAND & CO.'S FRENCH CHINA IN THE UNITED STATES.

Reasonable prices in our entire stock.

ABRAM FRENCH CO.
**New Pictures.**

Etchings, Engravings, Photographs, just received from the best American, English, French, and German publishers.

The largest and finest stock to select from in New England,—and prices satisfactory.

Special attention to Artistic Framing.

WILLIAMS & EVERETT,
190 Boylston Street, -- Boston.

---

J. C. LITTLEFIELD,
Tailor and Outfitter,
21, 23 Beacon St., Boston.

Exclusive Styles for Young Men
DRESS SUITS A SPECIALTY.
DISCOUNT TO STUDENTS.

---

FROST & ADAMS,
—Importers of—

DRAWING INSTRUMENTS
AND
Supplies for Students, Architects, and Engineers.
SEND FOR ILLUSTRATED CATALOGUE.
No. 37 Cornhill, Boston.
LIBERAL DISCOUNT TO M. I. T. STUDENTS.

---

"TECH" SPECIAL.
WE ARE
TAILORS TO THE TECH CO-OPERATIVE SOCIETY.
EXCLUSIVE LONDON STYLES
For students' wear our specialty, with prices moderate.
Inspection solicited.

All goods warranted for excellence of make and superiority of colors.

MESSENER BROTHERS & JONES
TAILORS AND IMPORTERS,
No. 388 Washington Street, Boston.
The action of '94 concerning the still existing debt of our last Senior Dinner Committee brings up once more that much discussed, much abused, yet thoroughly enjoyed social event, the Senior Dinner. This dinner, a parting tribute to the Seniors by the three lower classes has for some time been the one occasion of the year when the Institute as a whole meets as a social body; when Senior and Freshman, Junior and Sophomore throw aside all class feeling, and as fellow-students of great Technology, join hands in strong, fraternal sympathy. That finances have to be even thought of in connection with this event is unfortunate, but much more is it so that the Committee in charge of it should be personally responsible for any loss incurred, besides having to devote a very considerable amount of time in the necessary preparations.

Ninety-four is on the right track, let each class back up its representatives, also. They are men who will not be over extravagant, who seek only to make the affair such a success that Technology may be proud of it, and that each departing Senior class will always look back upon it with pleasure and satisfaction.

We hope that '94's investigating committee will present such a favorable report that, with the aid of every man in the three lower classes the Seniors may, this year, receive a rousing send-off, such as was never before dreamed of. They will soon be alumni, and—we shall soon be obliged to have a new gymnasium.

This is about the time of year when a great many students complain about their health, and wonder why they do not feel more energetic. Rushed by their studies they take as little exercise as possible, and spend all of their spare moments in grinding. A little thought and common sense should convince such ones that they are in the wrong track. The gymnasium is provided for our use, and three hours spent there each week is a judicious investment. It will mean a clear head and readiness for work. Remember that it is not the number of hours spent in study, but rather application that counts.

This is with great pleasure that The Tech publishes an account of the very kind treatment that the football team has received at the hands of its medical attendant, Dr. S. J. Mixter. Dr. Mixter attended the men when called upon throughout the fall, and his bill of fifty dollars was considered very reasonable. Mr. Vorce, the manager, recently forwarded a check for that amount, but it was returned by the Doctor, who stated in a most cordial note that he had heard of the small proceeds of the last Amherst-Tech game, and that he
asked permission to return the check as a contribution from an old Technology man.

It is men like Dr. Mixter who make this world a brighter and a better spot in which to live.

COMMUNICATIONS.

The Editors do not hold themselves responsible for opinions expressed by correspondents.

TO THE EDITORS OF THE TECH:

Probably you will consider the subject of bicycles to be a little out of season just at this time, but as they are being ridden at all times of the year, it is not so much out of date as it seems.

I am a bicycle rider, and I would like very much to ride back and forth between my home and the Institute but for the fear of having my wheel stolen. It is very easy for a man who has a good deal of "cheek," to step up to the row of bicycles in front of the Institute, pick out one that is unlocked, and ride it off as if it were his own. If it is locked, he can have a sharp pair of pincers in his hand, and under the pretense of unlocking the padlock, snap the chain and take the wheel. This would not be as risky as it would seem, because, as there are so many men in the Institute, a bystander would not know that the man was taking his own bicycle.

It is hard to suggest any remedy to prevent this thievery, but stronger locks would be some protection, especially those which are fastened permanently to the front forks of the bicycle, and have a small bar to slip between the spokes, preventing the turning of the wheel. Or perhaps the Institute could give us a spare room in the basement in which to put the wheels during the recitation hours, as already suggested in The Tech. This would help very much, and would be much appreciated.

I hope this subject may receive some attention, so that in the spring we may ride to the Institute and leave our wheels in safety.

A. P. U.

UNITY.

"Ahead of all others!" the big sign read.
The artist broke into a laugh;
For above the sign some one had placed
A composite photograph.

—Brunonians.

How the grinds rejoice!
The Architectural Club dines at the Parker House to-night.

THE TECH will shortly publish as complete a list as possible of the subjects of Senior theses.

There are several Mechanics, eligible for a degree, who have not as yet decided upon the subject of their theses.

One of the Course VI. Seniors is characterized as having his brains short circuited. Can he make connection on the exams. is the question.

At the last regular meeting of Hammer and Tongs held at the Thorndike, December 17th, Messrs. Southard and Curtis, '94, were initiated as members.

Course IV. has discovered a poet of no little merit among its members. He astonishes all by the fluency of his verse, and his modesty, the latter being especially noteworthy.

Efforts are being made by the present Board to secure the services of Miss L. C. Hills, of "The Pageant of the Year," to fulfill the coming vacancy of the snake editor.

The circular on "Choice of Courses," recently issued by the Faculty, is of the utmost importance to every Freshman, while a few Sophs could read it to advantage. Call and get one before it is too late.

Every member of a fraternity having no chapter at Technology, will please send his name, fraternity name, and name of chapter, before January 1st, to C. E. Meade, Box 95, society editor of "Technique."
Work on "Technique" is progressing, even with the near approach of the "semies," but many contributions are yet needed from the students at large, to make the annual a success. Give them your support, everybody.

The Architectural Department has sent to Paris for the most talented man to be had in the Beaux Arts to assist Mr. Meade in design. Since the course has become so large, the Faculty have decided to have two instructors to take the place of Professor Letang.

A petition has been presented to the Faculty by the class in Heating and Ventilation, asking that no examination be held in that subject. The reasons stated are, the lack of prescribed time for the study of the subject, and the very late appearance of Professor Woodward's book.

Through the kind efforts of Professor Carpenter and Mr. Herrick, the Freshman Class has been interested in the work of THE TECH. Many first-class articles by the '96 men have reached us, and these will be published as occasion offers. Do not stop here, gentlemen, but let the good work go on.

On December 20th a batch of lead ore was put through the blast furnace in the Mining Laboratory, and eight hundred and fifty-three pounds of lead were turned out. The run lasted from 9 A.M. until 3 P.M. This is the largest quantity of lead ever turned out at the Institute during so short a time.

The Junior Architects will shortly add to the appearance of themselves and their drawing room by wearing blouses of uniform color and cut. The blouse is a garment worn by draftsmen for comfort, to protect their clothes, and to insure their always being presentable to a client of the fairer sex. The last consideration, no doubt, brought about this change.

The Class of '93 started its Sophomore year with eleven regular students in the Architectural Course; there is but one candidate for a degree this year. Ninety-four started with twelve and has only seven of that number left as regulars, and they have yet the hardest term of the course to pass through. Freshmen, take notice! this is the "snap" course.

One of the professors in the Architectural Building is employing a novel method to keep the desks in his room in good order. At an unsuspected moment he questioned his class and found out who had scratched the desks. At present he is assessing his classes to pay for having the tops of the desks planed and varnished. Perhaps he may find it is harder to collect money than names. Honesty is the best policy, but where money is concerned there is a great difference.

"Now," said the grind, "you can plainly see that in the case of the sport, if we have the time spent in preparation and the required time of preparation, we find the efficiency to be very low indeed, probably not greater than 30 per cent at the outside. While following out the same line of reasoning in my case, you obtain for a minimum value of the duty per one million hours of work, a quantity which is not far from H. (H representing the total brains of the professor.) My coefficient of friction is also much lower than the average student's, whose coefficient of sliding through is only a possible quantity.

The Glee Club, under the management of Mr. G. E. Merrill, '94, and led by Mr. F. C. Schmitz, '95, promises to give a very good account of itself in the near future. Out of the forty-four men competing for places upon it, seventeen have succeeded, and since then Mr. George, instructor in mathematics, has joined their ranks. The music will be new, and a great deal of it original, being composed by the instructor, Mr. Clarke. Mr. Crosby, '96, will give an exhibition of yodling at every concert, which will be quite a novel feature.

A benefit for the Football Association will be given during next term, in Huntington Hall; other dates are at Worcester, Wellesley, Lasell, Alumni Dinner, Melrose, etc.
The Miners rejoice in the possession of a new sampling machine, recently invented by Professor Richards. It consists of a hollow metal cylinder with seventy-two blades attached to the interior surface, one of which, being closed at the end, causes the sample to flow through an opening in the side of the cylinder into a tank provided. Since the blades are of the turbine pattern, the stream itself operates the machine, and thus this automatic sampler receives the stream of sand and water from the Hendy feeder, takes out $\frac{1}{12}$ part, and allows the remainder to go to the true vendor for treatment. Heretofore, examinations have been made once in five minutes by the crude but only available method of taking a portion from the stream with a dipper once in five minutes. Since with this invention a uniform quantity may be taken for a sample twenty times a minute, the accuracy is therefore more than tenfold increased and the results are correspondingly satisfactory.

The large draughting room on the second floor of Walker has been divided up into two large rooms and two smaller ones. The first large one is twenty-nine and a half by thirty-three feet, and is to be used as a laboratory of acoustics and telephony. It will be furnished with a steady air blast for operating organ pipes, sirens, etc., a separate circuit for driving electric motors, and will be lighted by incandescent lamps. For experimental purposes, telephone lines will be run out to different parts of the building. So far as is known, this is the only laboratory in the country devoted purely to acoustics. The Institute collection of acoustic apparatus, which is one of the finest in existence, will be placed here. The smaller room opening off the acoustics laboratory will be fitted up for magnetic measurements. The other large room, which is about the same size as the first, is situated in the front of the building, and will be arranged for general physical investigation. The excellent light here will be very advantageous for the study of optics, and it is probable that the optical apparatus will be placed here. The other small room will also be of great value, as it will contain all the facilities for electrical construction, such as winding resistance coils, etc. It will contain, besides other apparatus, a standard Wheatstone's Bridge, galvanometer, and a constant temperature tank. This set of four rooms has long been needed; and besides being used for the various purposes just described, they will be of great service in thesis work.

Holiday Theatricals in the South.

During the holidays of 189-, the entertainment of the Negro Dramatic Club, of Kittrell, N. C., took place in the district schoolhouse, half a mile from the village. The Club was small, partly because only the "upper crust" was allowed in it, and partly because, by decreasing the number of members, the management increased the size of the audience and therewith the profits. Kittrell contained but fifty or sixty theatre going people.

The performance on this occasion was a long and varied one, and though of a somewhat higher order and price than at first seemed advisable, it drew a large and appreciative audience. It was to be regretted that the new Opera House on Possum Avenue was not completed in time for the holiday celebrations, but the management secured a good substitute in the schoolhouse. The theater was artistically decorated with pine garlands, and illuminated entirely by kerosene lamps, though not entirely illuminated. Since the property man was connected with the Kittrell Hotel, it was not difficult to obtain, through him, the table and bed linen requisite for a curtain. The other stage fittings were furnished by equally reliable firms, while the organ used was manufactured by the Mason-Hamlin Company, or their ancestors.
The curtains parted promptly at eight o'clock, and Miss Evangeline Jacksing started the disturbance with a song. After a few struggles with a lump of excitement which rose in her throat, she opened her mouth and sang. The organist attempted to tune his instrument to the key in which she sang, but finding it a hopeless task, swung round on his stool and listened to the song. The applause following was long and loud, and Evangeline was obliged to repeat the effort, after which she closed her mouth and withdrew.

The next number was a short recitation by a young orator whose training had not been at fault,—in fact it seemed as if he had been over-trained,—but who did not realize that his life was not at stake. Encores were in vain after this number. Then came a sweet duet by Miss Jacksing and Miss Goosinberry, which was ably rendered.

Several amusing, but not remarkable, songs and recitals followed, gaining long applause in every instance. One selection, however, should be mentioned, not only on account of its excellence from a dramatic point of view, but also because it might have been the last of the entertainment. It was a dialogue between two darky boys. In the beginning a serious misunderstanding takes place between them, which gives them no alternative but fight. The battle began, and continued in the most realistic manner conceivable; and the public excitement reached a high pitch as the youths swayed from side to side, and clinched with a deadly cinch. They did not heed, however, the edge of the stage, and before anyone realized the fact they were tottering over the stove. With a strange cry they embraced each other closely, and, locked arm in arm, fell headlong over upon the stove, and subsequently into the orchestra stalls, where they were lost to view.

But the best number came last. It was a play. Martha, a chambermaid at the hotel, and two waiters, interpreted the parts of a society belle and two suitors, respectively. The opening scene showed Martha seated in a rocking-chair, closely wrapped in thought and a fur cloak. It was not long before one of the suitors appeared, and after kissing Martha's hand, sat down near her and began to relate a long, fictitious tale about the other lover's character. Martha heard him through, and let him kiss her hand again. Then he departed, and lover No. 2 entered. Martha greeted him in a decidedly affectionate manner, and soon told him what she had heard about him from the other, saying at the same time that she did not credit such reports. Now was the time for a proposal, and Martha blushed and said yes very softly when it came. But why did the curtains not close? The betrothed couple held each other's hands, and in painful anxiety waited. In vain. Martha's eyes rolled like those of a tigress. At last she could stand it no longer, and yelled, "Drap de curtains, yer fool!" The curtains, together with the pine decorations, dropped, and thus ended the entertainment.

M. S. J., '96.

MORE WORK.
"I try to give each class a little more to do than the one preceding it."—Professor—

More work, more work is Tech's remorseless maxim, 
Shove every victim till he's bound to shirk
Half his allotted daily grind, then tax him 
With any number of hours you please. More work. 

Aye, though at every Prof.'s old time-worn jesting 
In quick response, we broadly smile and smirk, 
E'en though we loudly laugh at tales of testing, 
'Tis all in vain; it only means more work. 

If, 'neath the cloud of near examination, 
We fondly dream some chance for us may lurk, 
To pass unscathed, in honest application, 
We're baulked; some greedy Prof. expects more work. 

Oh! some day, when I see him there selecting 
New tomes, I'll steal behind him with a dirk, 
And madly plunge it through him unsuspecting, 
And burn the books he's bought to make more work. 

Then, though the guardians of the peace should catch me, 
E'en though some morning with a sudden jerk, 
To heaven (or somewhere else) they should dispatch me, 
I'd never hear again, "More work, more work."
**Fixtures.**

Feb. 11. B. A. A.—Annual Open Handicap Games, in Mechanics' Building.
March 3. Annual Interscholastic Scratch Games.

At the last class championship games G. K. Dearborn, '93, was unable to compete, as he was suddenly called on to New York. The Seniors missed him badly.

The standing to date for the Class Athletic Cup is as follows: '93, 20 points; '94, 7 points; '95, 22 points; '96, 32 points.

Third place credited to King, '96, in the report of the indoor meeting, should go to Hersey of the same class.

H. L. Williams, the Yale hurdler, is now at the University of Pennsylvania Medical School.

Cornell has ordered from Philadelphia an eight-oared aluminium shell.

The members of last year's winning crew of Yale are to be given gold seal rings with the Yale record inscribed on them.

At the annual indoor meeting of the B. A. A. there will be a team race between Amherst and Dartmouth.

The skating carnival of the N. E. A. Skating Association will take place January 27th and 28th, at either Spy Pond or Wood Island Park.

Miss Whitlesey, of the Harvard Annex, recently won the championship in tennis singles in the tournament among the girls' colleges.

As many already know who take much interest in collegiate news, the Yale Freshmen celebrated very freely after the last football game with Harvard. They considered the tie as good as a victory, and celebrated it as such. The whole class had a gay time in the New Haven Opera House, letting loose doves with blue streamers attached, firing torpedoes at the ballet, etc. Several individuals were arrested, but nothing could be done to them as they were not guilty for a breach of the peace, inasmuch as the whole class was involved. The judge sitting on the case said that the only thing the disorder could be called was a riot. The riot act was not read (as required by law), and consequently the men could not be legally punished. But the Yale Faculty, realizing that some decided action must be taken, have voted, after lengthy discussions, that the members of the Class of '96 shall not be allowed for the present to take part in any way in baseball contests. This, of course, will prevent any Freshman ball game with Harvard; and the University nine will also suffer, as none of the Freshmen (among whom are many promising candidates) will be allowed to play.

---

**My Mistake.**

I met her on a Pullman car,
In section number nine:
Each eye shone like a morning star,
With radiance divine.

So when I placed my bags and traps
In section number ten,
She looked so tempting 'mid her wraps
I sought her face again.

She glanced at me with roguish pose,
Yet innocent of guile,
Then colored like a blushing rose
And tried to hide a smile;

The sweet confusion but enhanced
Her dainty tint of pink,
And quite by accident she chanced
The nearest eye to wink.

When she refused my proffered card
With scorn and proud disdain,
I tried my best, and pleaded hard
My error to explain.

She listened to my mumblings crude,
Then tossed her nose on high;
"I think," she said, "you'd wink, if you'd
A cinder in your eye."

E. P. G.
The race is run, and the testimony of winners and losers is very much in order. Many have been disappointed; and, on the other hand, many are much pleased. Did the best horses win? Ah, that's another question. Let us all adjourn to the stand and watch the battle; it is well worth watching. The entries for the first race are getting ready. The sorrel we heard so much against from the "lamb," is very confident. His opponents are a well-groomed, quiet-looking little thoroughbred, and a big, stalwart gray, both of whom show signs of plenty of good work; though the latter is murmured against most undeservedly on account of some darkly whispered crookedness in the past.

The race is called, and they bunch together back of the wire. Well in hand they come down toward it, and the gong sounds a successful start. The sorrel has the inside track, with the gray the farthest from him. They are well together to the first quarter, and the crowd gives evidence of deep interest. But now, look! the sorrel pulls ahead. Two is flagging a little; Three's rider has just touched spur to flank. The pace is furious, but One leads, and passes the half two lengths ahead. The talent grow restless, and Two's rider comes in for a share of quiet, but none the less forcible abuse. "Why doesn't he push him?" is the exasperated query; "he'll never win at that pace." At the three-quarter, One leads by a good six, Two and Three neck and neck behind. "All over," is the general position, when a cheer goes up, and disappointed backers turn again toward the course. "Ah! Pretty! Magnificent! Splendid!" Two has pulled himself together, and by a magnificent spurt is snapping the lead, length by length, from One. Two furlongs, and One leads by a length; one furlong, and Two has a half length more to the good. The flag falls, and One has won by a neck. Fatal delay! that prevented blood from telling. The winner goes prancing gaily toward the stables, surrounded by an eager crowd of "backers," who heap congratulations upon his trembling rider in their customary fashion.

Let us pass by the second race, won by Modesty, under a cruel whip, over Innocence from Maine, who loses hard in the pink of condition, and Unknown distanced; the third, won by the favorite in a canter; and the fourth, which the favorite also takes from a field of one at an easy gait; and come to the fifth,—a hot contest. Mug, whose recent clipping gives him a ludicrous expression, Grouch, and Squee are the entries. Grouch plays foxy, and leaves the wire first. Squee behaves badly, and looks out of it, but pulls together at the quarter, and starts down the track with the bit in his teeth, crawling up on Grouch, who looks grouchy. Mug is running easily, and looks like the winner at the half. Grouch is now pushed till he stumbles, and drops behind with a snort. Squee doesn't know when he's well off, however, and Grouch regains his place four lengths behind Mug, whose rider sits his saddle like the veteran that he is, and holds the lead easily. It is neck and neck on the stretch, but Mug gets the benefit of his clip (strong breeze blowing), and wins by a length, Grouch second.

Much amusement is furnished by Squee's action at the post. He tries madly to climb into the judge's stand, then, getting the bit in his teeth, starts off around the track again, and finally stops dead under the wire, refuses to budge, and is finally hauled off on the scraper.

The sixth race was won in a romp by Ha Ha, the other two playfully contesting for second place.

Peculiarity won the seventh, because Blunderbuss and Kimflam refused to respond to the spur, and acted like yearlings.

The eighth race was a rank disappointment. Moonbeam, the Dutch mare with the heavy feet and white eyes, Chief, and Wild Willie, were the entries. Chief was an easy favorite at 8 to 5, and, getting the lead at the start, kept it half way round. Moonbeam was playing games with the track, but his rider got him quieted down after some hard work, and he chased along like a freight caboose. Chief and Wild Willie seemed to be trying the sacrifice racket, and finally interfered. Wild Willie capped the climax by putting his head in Chief's jaw, running that way for a good eighth. This was what Moonbeam needed, and before Wild Willie and Chief got untangled, had got three good lengths to her credit. The others woke up now, and Chief started down the stretch in fine form, but Moonbeam stumbled along somehow, and crossed half a neck ahead. The Lounger feels unable to add anything to the above succinct account. Further comment is unnecessary.
HOW TO MAKE A CLUB.

We were driving near Killarney,
In that land of bogs and blarney,
And I asked young Phelim Barney,
He who drove our jaunting car,
How he made the good shillelagh
Which he always sported gayly,
For he cut one almost daily
Where the blackthorn hedges are.

"Faith, I choose the stick that's scraggiest,
The humpiest, bumpiest, snaggiest,
The hunchiest, bunchiest, shaggiest,
Be it blackthorn, be it oak;
I cuts the blossoms swately,
Lave the knots and thorns so nately,
And for tin long nights complately
It must soak, and soak, and soak.

"Thin at every kind of frolickin',—
A fair, a' wake so rolickin',—
With a wee drap alcoholic in,
I gives that stick a rub.
And at all the shreens invitin',
Which your heart it may delight in,
Be they dancin', be they fightin',
It will be the swatest club."

—Vassar Miscellany.

MY MUSE.

Though fertile my muse is,
She somehow refuses
To warble of wines that are sparkling and clear.
No reason whatever,
At rhyming she's clever;
Now why, may I ask, do your lips wear that sneer?
I tell you she's very
Perverse and contrary,
Her taste is 'low down' I confess that I fear;
She's deucedly eager,
Though rhymes may be meager,
To carol of pretzels and cool lager beer!

—Trinity Tablet.

AN UNKIND CUT.

Ye Senior hath a chapel cut,
He hideth in his lair;
Ye Junior hath a razor cut,
And muck dishevelled hair;
Ye Sophie in his cutaway
Doth on the campus prance;
But ye Freshie has the shortest cut
On the bottom of his pants.

—University Cynic.

TRIOLET.

Such a worn-out old joke,
Yet we all shook with laughter.
Ye gods! Why invoke
Such a worn-out old joke?
The Prof.'twas who spoke;
Now what were we after?
Such a worn-out old joke,
Yet we all shook with laughter.

—Williams Weekly.

AN AFTERTHOUGHT.

I did not press her tiny hand,
Nor did I kiss her pouting lip:
I did not walk her o'er the sand,
Nor did I watch her daily dip;
I did not squeeze her round the waist,
Nor did I promenade with her;
I did not tie her shoe unlaced,
Nor take her to the theater.
I did not gaze in her bright eyes,
Nor climb the mountain peak with her;
I did not meet her "'neath the skies,"
Nor did I ever 'treat her."
I did not take her for a ride,
Nor dance her in the mazy whirl;
I did not say, "I'm true and tried,"
Because I had no "summer girl."


Said the widow (mendacious young Mrs.1)
"I really don't know what a Krs."
Her lover, in haste,
Put his arm 'round her waist
And said, gently, but firmly, "Why, thrs."

—Spectator.

IN LIGHTER VEIN.

In lighter vein—blue eyes and rosy lips,
Gay songs and dances, jests and merry quips;
No thought of the great mysteries of Pain
And Life and Death, but just a clear refrain.
That in 'twixt thoughts of love and laughter slips,
Light as the foam that from the oar-blade drips—
Such is the measure of our careless strain,
In lighter vein.

Safe into port come all our wandering ships,
From those dim lands o'er which the horizon dips;
Our Fancy's castles prove not all in Spain;
Oh, life is fair and every path is plain,
If we but woo the muse who ever trips
In lighter vein.

—Vassar Miscellany

Heads of great men all remind us
If we choose the proper way,
We can get up in the morning,
With a head as big as they.

—Spectator.
THE TECH.

GLOVES, Made to our special order.

The New GOLD TAN.
The Famous London Tan at $1.35,
Fownes' New Craven Tan,
Fownes' New Cavendish Tan,
Fownes' Best Cheverette.

COACHMEN'S GLOVES, LONDON MADE,
At NOYES BROS.

New Cravats
For Gentlemen.

English Long Scarfs.
The London Puff.
The New Ascot.
The Derby.

SHIRTS for Business Wear, for Outing,
Negligee, for Traveling, for Dress Occasions,
most thoroughly made, and always in stock for immediate use.

LADIES' and MEN'S ULSTERS, for Storm, for
Street, for Traveling. With rubber or without.

BLANKET WRAPS
For the Study,
For the Sick Room,
For the Bath,
For Steamer Traveling,
For the Railway Carriage.
$2.75 to $35.00

Samples and Self-measurements sent on application.

NOYES BROS.,
Washington and Summer Streets, - - Boston, Mass., U. S. A.

Blazers,
Sweaters,
Tennis Suits,

And Clothing of all kinds,
CLEANSED OR DYED
and carefully pressed.

ALSO A
FINE FRENCH LAUNDRY DEPARTMENT.

LEWANDO'S
French Dyeing and Cleansing Establishment,
17 Temple Place, BOSTON.
365 5th Avenue, - - NEW YORK.

Bundles called for and delivered.

St. Botolph Hall.

NEW TECH. DORMITORY.

Favorably situated at the corner of St. Botolph
and Harcourt Streets, near all the Departments
of the Massachusetts Institute of Technology.

Furnished Suites
To let, including heat and baths.

Restaurant
In Building.

For terms apply on the premises.

GODFREY MORSE,
Proprietor.
F. L. DUNNE,
TAILOR AND IMPORTER,
Transcript Building, 328 Washington St., cor. Milk St.,
BOSTON.

SHOES

To be entirely Satisfying should have EASE, GOOD STYLE and DURABILITY.
This trio of Essentials are possessed by the

FINE SHOES,

And we respectfully request Ladies and Gentlemen intending to purchase to allow us the privilege of trying on a pair; to see and feel this Shoe upon the foot, is to make a customer.

HATHAWAY, SOULE & HARRINGTON (incorporated).
35 BOYLSTON STREET, Between Washington and Tremont Streets, BOSTON.
T. E. LOVEJOY, Manager.

You can save fully 25 per cent by purchasing your Fall Suit and Fall Oversack from

LEOPOLD M Morse & Co.,
Cor. Washington and Brattle Streets.

We manufacture all our clothing, and have exclusive patterns in over one hundred styles especially adapted for young men.

AN INSPECTION OF OUR LARGE STOCK IS SOLICITED.

L. E. FLETCHER & CO.
HATTERS AND MEN'S OUTFITTERS.
Hats in Leading and Correct Styles for Young Men. • • • • •
• • • Novelties in Neckwear, Gloves, Hosiery, and Underwear.
CANES, UMBRELLAS, Etc.

158 BOYLSTON STREET (odd. Common), BOSTON.
THE TECH.

"SWELL" STYLES.

NICETIES FOR XMAS.

Neck Dress (choice effects) . 50c. to $2.00
Crocheted 4 in hands, all colors . $2.00
Embroidered Suspenders . $1.00 to $7.00
Gloves (lined or unlined) . $1.50 to $5.00
Umbrellas, good things . $2.00 to $20.00
Neck Mufflers and Dress Shirt Protectors.
Ladies' Embroidered Garters and Handkerchiefs.

RAY, Men's Furnisher,
509 Washington, cor. West Street, 641 Washington, cor. Boylston Street, BOSTON, MASS.

Boston Theatre.—
"Babes in the Wood." Monday, January 2d,
Afternoons at 2; evenings at 8.

Tremont Theatre.—
Monday, January 2d, the Bostonians in "Robin Hood." Evenings at 8;
afternoons at 2.

Hollis Street Theatre.—Monday, January 2d, Rice's Surprise Party in "1492."
Evenings at 7.45; afternoons at 2.

Bowdoin Square Theatre.—January 2d, "White Squadron." Evenings at 8; matinees at 2.

Columbia Theatre.—Monday, January 2d, "Alabama." Evenings at 8; matinees at 2.

Boston Museum.—January 2d, "Mayfair." Evenings at 8; afternoons at 2.

Globe Theatre.—January 2d, "Wang." Evenings at 8; afternoons at 2.

CO-OPERATIVE TAILORS

TO NEARLY ALL THE SCHOOLS AND COLLEGES.

FRANK D. SOMERS,
No 5 Park St., Boston.

Special designs in Woolens for Student trade. We do the largest Student trade
of any fine tailoring firm in the country.
A. N. COOK & CO.,
IMPORTERS, MANUFACTURERS, JOBBERS AND DEALERS IN
FINE HATS AND FINE FURS,
377 and 379 Washington Street, opp. Franklin Street, Boston, Mass.
WE AIM FOR THE FINEST AND BEST. NEW AND CORRECT STYLES.
Seal skin garments to order, tailor measure, fit guaranteed. Furs received on storage, insured against moths and fire.

The Photographer
Is now located at his New Studio, with Reception Room and Atelier only one Flight from the Street,
146 TREMONT STREET, OVER HUYLER'S, BOSTON, MASS.
Awarded the Grand Prize by the Photographers Association of America, at Washington, D. C., 1890.
TELEPHONE CONNECTION.

COPLEY SQ. HOTEL,
Huntington Avenue & Exeter Street.
AMERICAN AND EUROPEAN PLANS.
Cafe open from 7 A. M. to 12 P. M.
F. S. RISTEEN & CO.

J. R. WHIPPLE & CO.
J. R. WHIPPLE.
R. F. FORD.
J. B. WHIPPLE.
C. I. LINDSAY.
W. H. LAPOINTE.
C. M. HART.

PARKER HOUSE, BOSTON.
J. R. WHIPPLE & CO.
J. R. WHIPPLE.
R. F. FORD.
J. B. WHIPPLE.
C. I. LINDSAY.
W. H. LAPOINTE.
C. M. HART.

M. KEEZER,
613 Shawmut Ave., Boston, Mass.
465 WASHINGTON ST., BOSTON.

CLASS WORK A SPECIALTY.
All sittings made by the proprietor.

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. Send postal to

M. KEEZER,
613 Shawmut Ave., Boston, Mass.
ARCHITECTURAL AND ART PHOTOGRAPHS,
For Students' use and for Room Decoration.
Special rates to Members of the M. I. T. Co-operative.

PHOTOGRAPH MOUNTING AND FRAMING.

SOULE PHOTOGRAPH CO., 338 WASHINGTON STREET, BOSTON, MASS.

C. E. RIDLER, Drawing Materials, Stationery, and Students' Supplies.
Cor. Boylston and Berkeley Streets.

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

Frank Wood,
Printer,
352 Washington Street, Boston.

STUDENTS, TRAVELING,
BUSINESS,
and PROFESSIONAL MEN
Insure in the Atlas.

Preferred
While traveling by Steam, Electricity or Cable,

Death by Accident. Permanent Total Disability. Loss of Both Eyes, Hands, or Feet. Loss of Right Hand or either Foot. Loss of Left Hand. Loss of One Eye. Weekly Indemnity will be paid for 52 Weeks.

$5,000 $2,500 $5,000 $2,500 $1,250 $650 $25
5,000 2,500 5,000 2,500 2,500 1,000 50

Any information in regard to Atlas Policies may be had of the Manager of Tech.
DAME, STODDARD & KENDALL,
We have a Complete Line of
Football Goods, and General Athletic Supplies,
Also CUTLERY, FISHING TACKLE, SKATES, and HAND CAMERAS.
New England Agents for The Elliptic Wheel, as ridden by Johnson, time 1.56 3-5.
DAME, STODDARD & KENDALL,
374 WASHINGTON STREET, - - BOSTON, MASS.

THE
Brunswick
(American Plan.)
NEAR THE
Museum of Fine Arts,
New Old South, Trinity (Phillips Brooks's)
Church, and OPPOSITE INSTITUTE OF
TECHNOLOGY.
BOSTON'S
Grandest Hotel
BARNES & DUNKLEE
Proprietors.

THE
Victoria
(Nearest European Plan
Hotel to M. I. T.)
In the Centre of Boston's Fashionable
District,
THE BACK BAY.
Opened November, 1866, and within one
week, the Traveller
said, "It has established
itself as the Delmonico
of Boston."

BOSTON
FOREIGN BOOKSTORE.
CARL SCHÖNHOFF,
144 Tremont St., Boston, Mass.
Liberal Discount to Tech. Students,
Especially on Works imported to order.

STUDENTS'
Note-Books, Paper, Envelopes, Stylo. Pens, and
Fairchilds and Franklin Pens, etc.
H. H. CARTER & CO., 3 Beacon St.
"CO-OPERATIVE STORE."

NEW MAIL.
CUSHION TIRES, $100.
PNEUMATICS, $120.
ALL DROP FORGINGS.
INTERCHANGEABLE PARTS.
Also, $135 and $150 GRADES; LADIES' $100 and BOYS' $35.
HANSDOMEST AND BEST WHEELS.
SECONDHAND WHEELS ALWAYS ON HAND.
GET CATALOGUE.
Wm. Read & Sons, Manufacturers,
107 Washington Street - - - - - 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.

The Richmond Straight Cut No. 1 Cigarettes are made from the brightest, most delicately flavored, and highest grade 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.

The ALLEN & GINTER Branch of the American Tobacco Co., Manufacturers,
RICHMOND, VIRGINIA.

---

I. H. FARRINGTON,
Merchant Tailor,

411 WASHINGTON STREET, BOSTON.

Suits to order, $30, upwards.
Overcoats to order, $30, upwards.
Trousers to order, $25, upwards.
Dress Suits to Let.

---

J. P. BOND,
GENTLEMEN'S FURNISHING GOODS,
NECKWEAR.

OUR $1.00 OPEN FRONT AND BACK SHIRT A SPECIALTY.

Also, full line Collars, Cuffs, Underwear, Gloves, etc.

41 DARTMOUTH ST., BOSTON.
Agent Dartmouth Laundry, Work called for and delivered.

---

D. TOY,
TAILOR TO THE HARVARD CO-OPERATIVE.

71 BEACON STREET, BOSTON, MASS.

Opposite Public Garden.

Agent for Whitaker & Co. and Hill Bros., London, W.

---

Typewriters at the World's Fair.

The Committee of Ways and Means of the World's Columbian Exposition has awarded to Wyckoff, Seamans & Benedict (Remington Standard Typewriter) the contract for furnishing all the writing machines to be used on the Exposition grounds during the Fair. A large number will be placed at convenient points throughout all of the buildings, and are intended for the accommodation of the general public, representatives of the press, and the officers of the Exposition.—Chicago Sunday Herald, August 7, 1892.

Wyckoff, Seamans & Benedict,
15 SCHOOL STREET, BOSTON.

---

GEO. H. GREENWOOD,
9 & 11 Boylston St.

Direct Importer of French and English Briarwoods, Meerschaums and Fine Smoking Mixtures.