



Volume XVIII.

Number 22.

March 30, 1899.

ETHEL: "Do you find Technology hard?"

CHARLIE: "Oh, we work a little between meals."

JACKSON & CO.

Hatters and Furriers...

Sole Agents in Boston for the celebrated...

DUNLAP & CO.'S NEW YORK HATS.

Also, a full line of our own styles.

Canes, Silk Umbrellas,  
... and Opera Hats.

126 TREMONT STREET, Opposite Park Street Church,

WILLIAM H. HOLLOWAY.

BOSTON.

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, 5 and 10 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.**

C. F. HOVEY & CO.,

FULL LINES OF

Gentlemen's Furnishing Goods.

Fine Custom-Made Shirts  
a Specialty.

No. 33 Summer St., and 42 Avon St.,  
BOSTON.

HIBBARD & MASON

(INCORPORATED)

Tailors,

MUSIC HALL PLACE,

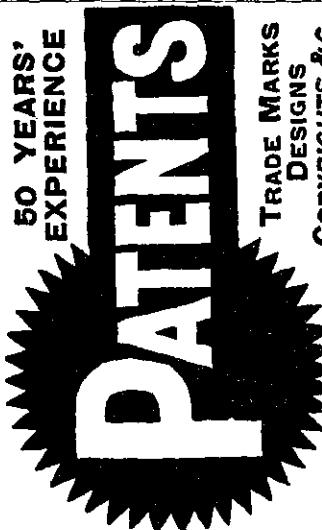
Telephone 579.

Off WINTER STREET,

BOSTON.

SUITINGS from \$30 Upwards.

OUR SPRING STYLES HAVE ALL ARRIVED.



TRADE MARKS  
DESIGNS  
COPYRIGHTS & C.

Anyone sending a sketch and description may quickly ascertain our opinion free whether an invention is probably patentable. Communications strictly confidential. Handbook on Patents sent free. Oldest agency for securing patents. Patents taken through Munn & Co. receive special notice, without charge, in the

**Scientific American.**

A handsomely illustrated weekly. Largest circulation of any scientific journal. Terms, \$3 a year; four months, \$1. Sold by all newsdealers. **MUNN & Co.** 361 Broadway, New York. Branch Office, 625 F St., Washington, D. C.

# ONLY ONE OUNCE.

An imported Bicycle and Knockabout Hat, in all shades, weighing only ONE OUNCE.

Mailed on receipt of price, \$1.00.

## Oak Hall Clothing Co.,

95 to 105 Washington St.,  
BOSTON, MASS.

# RICHMOND STRAIGHT CUT

# 10<sup>S</sup>

## IN TIN BOXES

are more desirable than ever —  
the new tin box prevents their  
breaking and is convenient to  
carry in any pocket.

For Sale Everywhere.

# Shoes

ALL THE POPULAR SHAPES  
FOR YOUNG MEN IN



Black,  
Tan and  
Patent  
Leather.

OVERSHOES OF ALL KINDS.

Prices Reasonable.

Discount to Students of Technology.

## T. E. Moseley & Co.,

469 WASHINGTON STREET.

# Eastern Teachers' Agency.

E. F. FOSTER, MANAGER,

50 BROMFIELD STREET,

BOSTON, MASS.

TELEPHONE, BOSTON 775-2.

## CARL J. HORNER,



The   
Photographer

11 Winter Street, Boston.

Elevator to Studio.

**Highest Grade Work  
at Moderate Prices.**

Special Rates to  
Tech Students.

Senior Class Photographer to Wellesley College; Tufts College; Boston University; Andover Seminary; Mass. College of Pharmacy; Boston Dental College; Boston English High School; and many other schools and Colleges.

DR. EDWARD J. PALMER,  
DENTIST,

120 Tremont Street, Boston.

Opposite Park St. Subway.

**PANELLA & CORREALE,**

Shoemakers. Shoes Shined.

Price List for Repairs: Gents' taps, handsewed, \$1.00; taps, nailed, 75c.; heels, 20c.

469 Columbus Ave.

**VAUGHN'S POPULAR CANDY STORE**

29 Tremont Street, opp. Museum.

Fine Home-made Candies a specialty. Popular prices.

**R. BURLIN,**

Book and Pamphlet Binder,

Edition and College Work  
a Specialty.

50 Arch Street, Boston.

**Columbia Tailoring Rooms,**

I. SHEINWALD, Manager.

Ladies' and Gents' Fine Tailoring.

Dress Suits To Let.

Fancy Dyeing and  
Cleansing.

Goods called for and  
delivered free.

597½ TREMONT ST., BOSTON.

**ALBERT BENARI, Tobacconist,**

33 TREMONT STREET, BOSTON, MASS.

Agent for the Bohemian Mixture.

FINE LINE OF FRENCH BRIAR PIPES  
ALWAYS ON HAND.

**S. SIMONS.**

We carry Shoes made by all the leading  
manufacturers. Lowest Prices. Repair-  
ing neatly done.

46 Charles St, Boston, Mass.

# The Bacon Shoe

Style, usefulness and durability—the three are combined in one in the Patent Leather Bacon Shoe on Bull Dog last. And, too, the Patent Leather

## Won't Crack.

We prove this fact in the only honest way—a new pair if it does. A printed guarantee goes with every pair we sell. Economical students can save money by buying the "Bacon Shoe."

F. V. Chipman & Co.,  
290 Washington St.  
83 Bedford St.

\$4.

# Massachusetts Cafe.

ORDER COOKING AT ALL HOURS.

Fine line of Confectionery.  
 Hampden Fruit-Flavored Ice Cream.  
 Fruit of all kinds.

Choice Line of Cigars.

Open from 7 A. M. till 12 P. M.

## G. MUGAR & COMPANY,

No. 587 Massachusetts Avenue, cor. Shawmut.



## PHOTOGRAPHERS AND ARTISTS.

Making a Specialty of College and Class Work.

146 TREMONT STREET, BOSTON.

## A. S. ADAMS,

Maker of the Official

M. I. T. PIN,

No. 8 WINTER ST., BOSTON.



The only Jeweler in the M. I. T. Co-Op. Catalogue.

Members wearing this Pin will be allowed 10 per cent discount on all purchases.

## BOSTON UNIVERSITY SCHOOL OF MEDICINE.



Large teaching force, including specialists. Advanced and thorough methods of instruction. High standards. A broad and comprehensive curriculum. Exceptional laboratory and clinical facilities; upwards of 20,000 hospital and dispensary patients being annually available for purposes of clinical instruction.

For information and circular, apply to

J. P. SUTHERLAND, M.D., Registrar,

295 Commonwealth Avenue,

BOSTON, MASS.

## STUDENTS' SUPPLIES.

Writing Paper and Envelopes with TECH. Monogram and Imprint.

## PERIODICALS AND MAGAZINES.

LAUNDRY AGENCY. Superior quality of Work. We call for and deliver goods.

## SOUTHWELL'S,

Corner Dartmouth Street and Columbus Avenue.

## Golf Goods.

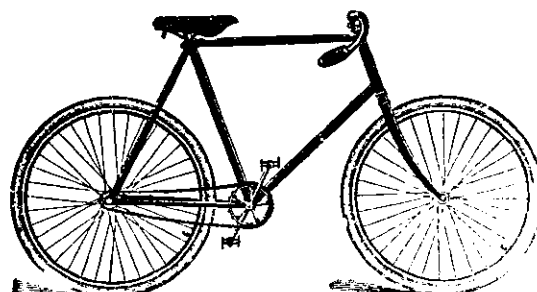


Have taken the Agency for the celebrated D. Anderson & Sons, St. Andrews, Scotland, make of clubs, with the Texa Shaft and unbreakable head. These are used by professionals, as by the Texa Shaft the longest drives are obtained. Also, Fergie, Hutchison, Auchterlonie, Crosswaite, and others.

Henley & Melfort Balls, Caddy Bags, etc.

SPECIAL RATES TO CLUBS.

Fine Rods and Fishing Tackle, Camp Outfits, Tents, Rubber Blankets, Tourist Knapsacks, Yacht Guns, Lyle Life Saving Guns, Sportsmen's Outfits, Military Supplies, etc.



## 1899

## Model Bicycles

NEW MAIL, highest grade, men's and ladies', \$50.00  
 HANOVER, best medium priced " " 35.00  
 Boys' and Girls' Wheels . . . . . 25.00  
 A few Secondhand Men's and Ladies', \$15. \$20, etc.

# WM. READ & SONS, 107 Washington Street.



**THE FLETCHER**  
**COLLEGE OUTFITTERS CO.**  
 158 BOYLSTON ST.  
 BOSTON MASS.

Very Best  
**LAUNDRY & WORK.**  
 Called for and delivered.

\*—M. I. T. Discount—\*

**Shirts to Measure**  
 Our Specialty.



ALWAYS ON HAND:  
**DRESS SHIRTS, COLLARS and CUFFS.**



Newest Effects In  
**Neckwear, Gloves, Hosiery, Pajamas.**



SPECIAL LINES OF  
**Underwear, Golf Hose, Umbrellas and Mackintoshes.**



**The Brooks & Co.**  
**Importing Tailors**  
 15 MILK STREET,  
 OPPOSITE OLD SOUTH CHURCH.

LONDON OFFICE, 6 SAVILE ROW

BIRTHPLACE OF FRANKLIN.  
 BIRTHPLACE 1796

**THE LARGEST ASSORTMENT OF FOREIGN WOOLLENS SHOWN IN BOSTON**

CO-OPERATIVE.

# THE TECH

VOL. XVIII.

BOSTON, MARCH 30, 1899.

NO. 22

## THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

MORGAN BARNEY, 1900, *Editor in Chief.*

STANLEY G. H. FITCH, 1900, *Assistant Editor in Chief.*

PAUL RAYMOND BROOKS, 1900, *Secretary.*

CLARENCE RENSHAW, '99.

GUY PRENTISS BURCH, '99.

C. W. CORBETT, '99.

PHILIP COOMBS PEARSON, '01.

I. RAYNE ADAMS, '02.

ELLIS FULLER LAWRENCE, '01, } *Art Editors.*  
P. Y. DUNWOODY, '01, }  
E. TOWNSEND HOWES, '01, }

THEODORE W. BRIGHAM, 1900, *Business Manager.*

A. E. LOMBARD, 1902, *Assistant Business Manager.*

### OFFICE HOURS:

Editor in Chief,

Saturday, 12-1 P.M.

Business Manager,

Saturday, 12-1 P.M.

*For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.*

*Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.*

Subscription, \$2.50 per year, in advance. Single copies, 10 cts. each.

Entered in Post Office, Boston, Mass., as Second Class Matter.



THE evidence of increasing interest in athletic affairs among the students and the alumni is very gratifying. The attendance at the mass meeting, while not record-breaking, would compare very favorably with the attendance at several previous mass meetings. The interest taken in the minstrel show is another good sign. The rehearsals are well attended, and an earnestness is displayed which augurs well for the success of the performance, artistically. The seats, too, are selling well, one member of the Committee disposing of over one hundred and fifty dollars' worth in two days.

As attested to by Mr. C.-E. A. Winslow in his speech before the students at the

mass meeting, the alumni are also doing their share of the work for the bettering of athletics, and, in line with this statement, the announcement is made that the next number of the *Technology Review* is to be an athletic number. As such it will contain the work of the Relay and other teams since the last issue, besides an article on "The Present State of Athletics at the Institute."

The Track team this year is a good one, and worthy of support; and THE TECH takes it upon itself to say that the Red and Gray will return from Worcester high up among the leaders.



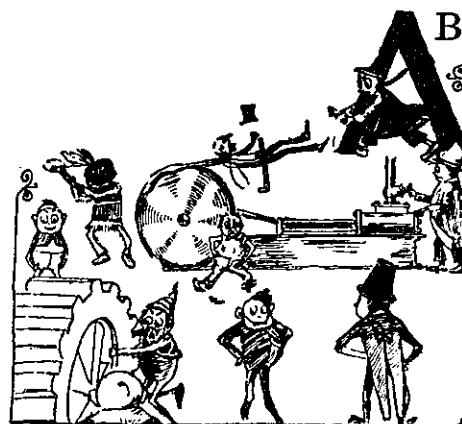
THE action of the Walker Club in deciding to give the proceeds of their play to the new gymnasium instead of to the Athletic Association has been more or less criticised. It is a well-known fact that Technology athletics rarely get the support they deserve, and this lack of financial support has, this year, severely hampered the Track team. This is unfortunate, because of the merit of the team. Yet there remains the fact that if the Walker Club Play and the Minstrel Show were to be given in the interest of the same institution, they would more or less antagonize each other. The position is this: the new gymnasium is a need which is felt more and more in the Institute, and it is an object which when attained will be appreciated by the Institute as a whole, and it will give, probably, a new stimulus to our athletic spirit. On the other hand, the lack of support to the Athletic Association will not be permanent in its effects.

However, it is not worth while arguing over the final disposition of proceeds; it is enough to know that both the Walker Memorial Gymnasium and the Athletic Association need money. Instead, it is far better to regard Junior Week as the holiday time of the Technology year, and to remember that the Walker Club play has been in the past, and will continue to be in the future, one of its pleasant features.



THE second number of the *Technology Review*, now out, promises to be even more interesting than the first copy, which elicited so much favorable criticism. The frontispiece will be an engraving of the Walker Memorial Bust. This is followed by a short article on its history and significance. Besides the departments devoted to the Institute, undergraduate, and alumni news, the *Review* will contain the following: "Applied Science and the University," by James P. Munroe, '82; "The Geodetic Observatory;" "Institute Men in the Spanish War;" "John Cummings," by Harry W. Tyler, '84; "The Present State of Athletics at the Institute," by Benjamin Hurd, Jr., '96; and "The Walker Memorial Gymnasium." These last two articles will appeal especially to that increasing number of alumni and undergraduates who are recognizing more and more the benefits derived from physical, as well as mental, training. In the article by Mr. Hurd we may expect a careful summary and review of athletics at the Institute—perhaps with some reference to future possibilities. As an undergraduate Mr. Hurd was not only prominent in athletics, but in college life in general, being an Associate Editor of *THE TECH*, Editor in Chief of "Technique, '96," President of his Class in Sophomore year, First Marshal, President of

the New England Intercollegiate Athletic Association for '95-'96, and Captain of the '96 Varsity Track team. He won the 220-yard hurdle at Worcester in '94 in  $26\frac{3}{5}$  seconds; and his Tech. records of  $16\frac{3}{5}$  seconds in the 120-yard hurdle and  $26\frac{1}{5}$  seconds in the 220-yard hurdle still remain unbroken.



ABOUT a year ago Mrs. Hearst, of San Francisco, left to the University of California a fortune figuring into the millions, on condition that the money was to be expended in reconstructing the university on an international scale, with the intent to make it ultimately the finest educational institution in the world.

A preliminary competition was opened to the architects of the world. Last September, at Antwerp, a jury, composed of the four most eminent architects of the world—an American, an Englishman, a Frenchman, and a German—chose out of more than a hundred competitors eleven men to enter a final competition, to be judged at San Francisco next September. Among these eleven was chosen Professor Despradelle of the Institute. The successful competitors were invited by the regents of the university to visit the site selected, in order to obtain all possible information as to natural advantages to be utilized or obstacles to be overcome. The sum of \$200,000 was appropriated to cover the expenses of the visit of the competing architects. Professor Despradelle made the journey last December, and reports a most cordial reception. A beautiful location has been secured for the new university, and there is every prospect that when completed this institution will surpass anything now in existence.

## COMMUNICATIONS.

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

TO THE EDITORS OF THE TECH:—

I note in this week's TECH a paragraph to the effect that the minstrel show may be given in Hollis Street Theatre or some equally good place. If this can be done, I believe it will receive the support of the alumni in and around Boston, and should be a success. While the name of "Minstrel Show" is given to it, there is no reason why it should not be developed on broader lines, and become a noted feature of the school in bringing forward the social fellowship so much talked about as needed. I for one should support it.

P. B. WESSON, '98.

TO THE EDITORS OF THE TECH:—

I read a communication from a Freshman in your last week's issue against which I wish to enter a vigorous protest. In this communication the writer makes a flippant allusion to the 'Varsity Football team. Nineteen Hundred and Two should be made to understand that criticism of 'Varsity teams does *not* lie within the province of the Freshman. These teams are in the hands of men who sacrifice considerable time to their interests, and who are perfectly capable of running teams to the best advantage with the limited means at their disposal. Nineteen Hundred and Two was especially slack in interest in the Football team and put but one man on it, while in the Class were several other men, Parker and Dakin, for instance, who would have strengthened the team immensely, but who had not enough interest to try for it. If the students in the school and particularly the Freshmen, would support the 'Varsity teams with the same zeal and earnestness that is put into class affairs, it would result in placing Technology on a different basis athletically than that on which she has hitherto stood.

'99.



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

THE Executive Committee held a meeting last Friday, at which Mgr. Winslow read a communication from Brown in regard to the details of the Dual Meet. This communication was sent to the Advisory Council.

A 'varsity cap for the Track team was next decided upon. It will be an Oxford cap of Tech. gray broadcloth, with a very pretty M. I. T. A. A. monogram of letters in red one and one-half inches in length. The cap is allowed to the "T" men only.

A letter from the Amherst manager was received at the Institute Saturday morning stating that it would be impossible to hold a Dual Meet with Technology this spring. This greatly simplifies the awarding of the class championships, as the regular class games will be held as usual.

## Senior Portfolio.

THE Senior Portfolio Committee has decided upon Hoyle, Boylston Street, as the Class photographer. Mr. Hoyle has done considerable work for the *Technology Review*, and is thoroughly reliable. Members of the Class should have their photographs taken as soon as notified. If they do not, the Portfolio will be held back by their tardiness.

This book is a publication which should prove most valuable to the members of the Class in future years. It will contain reproductions of the photographs of every man in the Class, together with a list of the offices which the man has held, the societies to which he has belonged, and the subject of his thesis.

## Technology Calendar.

*Friday, March 31.*—Meeting Y. M. C. A., 4.10 P. M., 11 Rogers. Rehearsal Mandolin Club, 4 P. M., 31 Rogers. Dinner of the Civil Engineering Society, U. S. Hotel, 7.30 P. M. Talk by Mr. W. Lyman Underwood on "Hunting with a Camera," at the Technology Club, 8 P. M.

*Saturday, April 1.*—Run of the Hare and Hound Club to Chestnut Hill Reservoir, leave "Gym." at 2 P. M. Dinner of the Chicago Club at the "Old Elm," 6.30 P. M.

*Monday, April 3.*—Rehearsal of the Mandolin Club, 4 P. M., 31 Rogers.

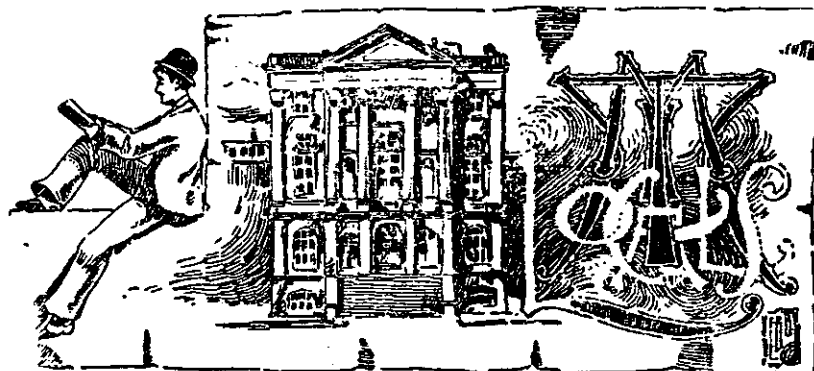
---

It is our sad duty to record the death of Prof. Alphonse N. van Däell. Professor van Däell has been in ill health the greater part of the winter, and had been granted leave of absence for the remainder of the year in the hope that with a rest he might recuperate. A little over two weeks ago he started for Weisbaden, Germany, to take the treatment there. His vitality, however, was spent, and he died shortly after reaching his destination. He leaves a widow and a young daughter, who were with him at the time of his death, and two sons, who are in business in Philadelphia.

Professor van Däell was a native of Belgium. He graduated from the Collège of St. Servais in 1864, and in 1868 he took the degree Docteur en Droit at the University of Liège. He came to America in 1873, and held the chair of Professor of Modern Languages at Kentucky College from 1876-79. Since then he has been instructor at Haverford College, and lecturer at the University of Pennsylvania, and director of Modern Languages in the Boston High and Latin Schools. In 1889 he came to Technology as head of the department of Modern Languages, which had been made vacant by the death of Professor Otis.

Professor van Däell was a man whose deep interest in the educational welfare of his students made his friendship personal. His grace and courtliness of manner, his cheerful smile and kindly face had endeared him to the student heart, and his loss will be sincerely felt both by his colleagues and the undergraduates and Technology alumni.

---



A representative of THE TECH, having learned the Charles Bank Gymnasium Track would not be opened until April 20th, immediately informed the management of the Track Team. The Athletic Association hoped to use this track to train the team on for the Brown Dual Meet, April 29th, so the management of the team appeared before the Park Commissioners, on Monday, to ask that the track be opened as soon as possible for the Tech. team.

The chess contest between Tech. and Andover, played at Andover last Saturday, resulted in a tie. The Andover team proved remarkably strong. The effects of the coaching of Mr. Rider, the Harvard crack, were plainly in evidence. The star game was that between the champions of the two teams, Mr. R. H. Bolster winning out by brilliant play in the end game. Mr. Penard outplayed his opponent from the start, while the playing of Mr. Seaver in a well-contested game was noteworthy. Mr. Barton also scored for Tech.

The Technology Bowling team played its first match last Saturday, and was defeated by the Dorchester Central Bowling Club, by a margin of eighty pins. Flynn, '99, Chaffee and Sherman, 1900, and Coleman and Perry, '01, constituted the Tech. team. The defeat was no doubt partly due to Technology's being unfamiliar with the alleys, which was shown by a steady improvement in the scores as the game progressed. The final score was: Dorchester, 2,128; Tech., 2,048. Coleman bowled the highest score for Tech., 202 pins. The next match will probably be with the Massachusetts College of Pharmacy.

Men wanting invitations to the subscription concert by the Glee, Banjo and Mandolin Clubs at the Technology Club will apply for them to Mr. H. N. Hudson, '01, Manager, M. I. T. Post Office.

At a meeting of the Civil Engineering Society, held Monday, March 20th, at 4.15 P. M. in Room 42, Peirce, Mr. F. O. Clapp, '99, spoke on the construction of the chemical precipitation works at Providence, R. I. The talk was illustrated by a number of lantern slides.

The Chicago Club will have an informal dinner Saturday night of this week, at the Old Elm, at 6.30 P. M. The plans for another club entertainment for the near future will be discussed, and the club made more social for its members. Every Chicago man is invited to come and enjoy himself. The dinner price is to be seventy-five cents.

On the evening of Wednesday, March 22d, Prof. Charles E. Munroe, Dean of Columbia University and Government Expert, delivered a very interesting lecture before the New England Section of the American Chemical Society, of which he is president. After the lecture the Society adjourned to the Technology Club, where refreshments were served.

The Y. M. C. A. held their monthly reception at the Student House on Friday evening. Professor Lodge, the guest of the evening, told in a very amusing and interesting way of his experiences in mining camps through the West and in Alaska. A fine musical programme was given by the Student House Banjo and Guitar Trio, W. D. Bender, '99, W. Scott, '00, and H. Seaver, '00. P. R. Ziegler, '00, again rendered the drinking song which was so favorably received at the 1900 Class Dinner. Refreshments followed several piano solos by Z. N. Matteossian, '02.

At the Technology Club, on Thursday evening, Prof. Charles E. Munroe gave a description of the manufacture of the army and navy

smokeless powders, explaining the different chemical theories involved and the relative value of the two makes, the advantage of smokeless powder being its greater energy rather than its smokelessness. Samples of different kinds were shown, including that invented by Dr. Munroe, made of the purest nitrate of cellulose obtainable, the inventor believing the best results to be obtained with a powder made of pure homogeneous material.

A series of reminiscent talks to be given before Die Gesellschaft by the representatives of German Universities now in the Faculty of the Massachusetts Institute of Technology, was opened last Thursday afternoon by Dr. Harry W. Tyler, who spoke very entertainingly of Göttingen and Erlangen. Dr. Tyler's personal recollections, filled as they were with anecdotes of some of the most distinguished German mathematicians, were extremely interesting; but a still greater treat was the concise analysis which he gave of the methods of administration of the two Universities.

#### Senior Elections.

AT the '99 election, Thursday, W. O. Adams was chosen Graduate Class Secretary, and W. S. Newell, Third Marshal, in place of C. Renshaw, resigned. The Third Marshal, William Stark Newell, was born in Albany, N. Y., May 31, 1878. He prepared for Technology at the Winchester High School, in Winchester. He was business manager of the *High School Recorder*, and Class Secretary in the fourth year. He entered the Institute with the Class of '99, taking Course XIII. In Junior year he was Treasurer of the Class and in Senior year, First Vice President. At the Senior Dinner his toast was "Theses." Mr. Newell is a member of the Mandaman, Sherwood, and Yacht Clubs, and was an officer of the Naval Architectural Society.

### The Freshman Dinner.

THE Class of 1902 held its first dinner Friday evening, March 24th, at Young's Hotel, about seventy-five men being present. The affair was a decided success and reflects credit on the committee, consisting of Messrs. Lombard, C. G. Mixter, Bright, and Strand.

The cover of the *menu* was ornamented by a well-executed design by A. H. Sawyer. When an excellent *menu* had been discussed, President Lombard opened the second part of the programme. After an address in which he complimented the Class on its spirit, as shown by the large number present at the Class Dinner, he introduced as toastmaster Mr. C. W. Kellogg, Jr., who filled the office in a most pleasing manner, enlivening the evening by many amusing stories between the speeches.

Capt. Simpson, Company B., responded to the first sentiment, "Camp Life on Irvington Street," and by his bright sallies of wit scored a decided hit. He spoke of the great pleasure of most of the Class when they learned that there would be a drill this year, in a way that was much appreciated. In closing, he mentioned the recent controversy about the Interscholastic Drill, and congratulated the Class upon having the best of the argument.

This interesting address was followed by a banjo and guitar selection by Messrs. Belcher, Chalifoux, Lockett, and Sawyer, which was promptly encored. The athletic interests were next presented by Captain Allyn of the Football team, and Mr. Wood of the Track team. The good showing already made by the Class on the track and gridiron was remembered, and the prospects for the future were set forth.

The next number was a selection on the piano and mandolin, acceptedly rendered by Messrs. Chalifoux and Poole. The toast "The Ladies," was responded to by Mr. Bright in a very happy vein. Under the title of "Chem. Lab. and Other Things," Mr. Hovey set forth the amusing phases of life at

the Institute, and told some amusing stories at the expense of both Faculty and students.

This closed the formal part of the programme, but songs and stories kept the time flying until a late hour, when the company broke up after cheering for Technology and the Class of '02.

### The Poet in Rogers.

(A condolence to the old clock in Rogers.)

O clock, the reverence due to you  
Has suffered many a check;  
And the worst of these, 'tis sad, but true,  
Was rhymed in last week's TECH.

"You long have stood in state," it said;  
Which means, upon translation,  
You've hung upon the wall, instead!  
A free interpretation!

"Time stands," as well; so says the rhyme,  
In spite of all tradition.  
What,—*Tempus Fugit?* Lie sublime!  
That's false,—an imposition!

A new, electric clock will trace  
The hours, where you have waited.  
'Twill "move its hands around its face"  
(Not 'round it's neck), 'tis stated.

O, "clock electric," 'tis in vain  
Your hands move round your collar;  
At twelve "o'clock" they'll move again,—  
The larger 'round the smaller.

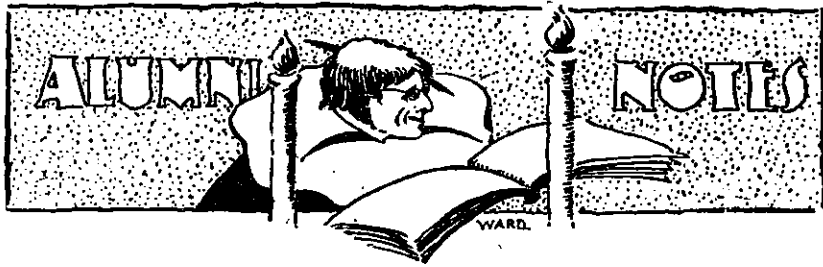
O poet, soothing is your balm;  
The aching heart it numbs.

"But we'll not think the change a harm  
When your successor" comes!

E. H. D., '01.

### Notice to 1901 and 1902.

WE beg to call the attention of the Classes of 1901 and 1902 to the fact that they should have a larger representation on the editorial staff of THE TECH. The Editor in Chief would be pleased to meet candidates for the Board, and give them all the help in his power. Just now there is more than usual activity in every department of undergraduate life, and the three weeks immediately preceding Junior Week will be found by new men to offer exceptional opportunities for college newspaper work.



'87. Dr. E. O. Jordan, VII., is Assistant Professor of Bacteriology at the University of Chicago.

'88. Mr. H. C. Moore, II., is an assistant engineer for the Tubular Despatch Co., of New York City.

'89. Mr. A. W. French, I., is now the assistant superintendent of the Atlantic Works of the National Lead Co., and is located in Brooklyn.

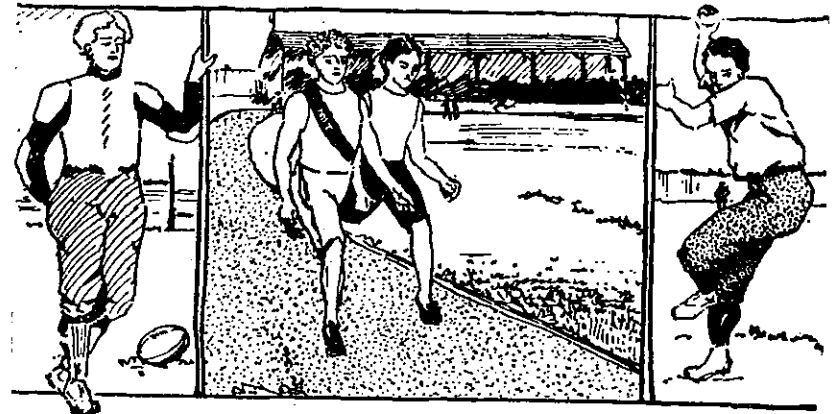
'90. Mr. John G. Crane, I., has a position in the Department of Streets, New York City.

'90. Mr. John R. Hall, VI., has opened an office as electrical engineer, in Cheyenne, Wyoming.

'91. Mr. W. H. Brainerd, VI., is in the employ of Swift & Co., at their Chicago packing house.

'92. S. Burrage, VII., is Instructor in Sanitary Chemistry at Purdue University, Lafayette, Ind.

'92. Mr. E. C. Hall, II., is developing some new property as superintendent of the Golden Crown Mining Co., of Ontario.



Several prominent athletes will do some of their training in the ballet corps of the minstrel show. Among these are Baxter, '01, Coleman, '01, Garrett, '01, Maxson, '01, and Lane Johnson, '99. With such brilliant talent the minstrel show is sure to prove a success.

More men must come out for the track team this spring. They are especially needed in the weights and long distance, and the pole vault. Neither Copp, '99, nor Kimball, '99, are coming out for the weights; Schmidt, '99, has left Tech.; Payne, '01, in the pole vault, is not back, and Grosvenor is not coming out for the broad jump.

The baseball candidates will have a hard time to find a good place to practice this spring. The oval is all cut up and probably cannot be used. The only place left is Clover Field, which is not only rough, but is a long way from the Gymnasium. We advise the managers of the ball teams to arrange as many outside games as possible. By so doing the men will get practice on good ground, and will gain much more experience.

The annual Cross-country Run was held Saturday, the men starting from the "Gym." at 3 o'clock. There were only five starters: Pray, '99, Stockman, '01, Dearden, '01, Emery, '00, and Hayden, '02. The course was to Coolidge's Corner and return, a distance of  $4\frac{3}{4}$  miles. The men finished in the order named, with the first two close together, in 28 minutes 13 seconds. The work of Pray and Stockman was very good under the conditions, as they had a stiff breeze blowing in their faces all the way out to the Corner.

"THE GIRLS ARE FOND OF THESE."

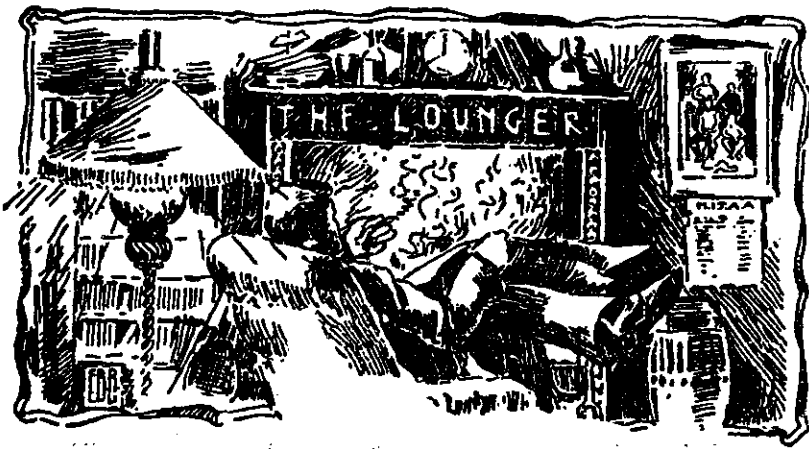


**TECH. EMBLEMS.**

Greatest variety.  
Lowest prices.

**BENT & BUSH,**

387 WASHINGTON ST., BOSTON.



THE Lounger was interested in the recent mass meeting held for the double purpose of endeavoring to arouse undergraduate interest in alumni athletics and of recommending to all the advisability of patronizing a proposed minstrel show, about which the Lounger has a vague recollection of having heard or read something or other somewhere. Whatever other results the meeting may have accomplished, considerable interest has been most assuredly aroused in the said minstrel show in two notable quarters, namely the managements of the Walker Club play and of the concert and dance of the Musical Clubs; and it is rumored that the gentlemen most interested in the latter enterprises are viewing askance the rapid strides which this new competitor for the contents of the student purse is making in popular favor, in which connection the Lounger may even mention the sudden change made by the "Private Secretary" (lest the Athletic Association should be subjected to those annoyances always incident to great wealth) in the object to which its handsome profits are to be devoted. Secure in its position, however, and even having a press agent, that important adjunct of the modern theatre, of its very own, the minstrel show smiles benignly upon its rivals, and each day the sound of the tambourine and bones grows louder and louder.

One of the most striking peculiarities which, in the course of his long residence at the Institute, the Lounger has noticed in the Technology student, professor, instructor, or other inhabitant of the place referred to, is the remarkable attitude taken at times by these individuals (or occasionally, indeed, by groups of them, as in the case of various classes, societies, committees, etc.) in regard to his own most innocent remarks, more particularly in those cases where his duty as guardian and director of the public welfare has necessitated that he should depart from his more common policy of speaking in parables and

generalities, and deal with truths of a more or less personal character. There are, it is rumored, several points of view from which almost any subject can be regarded, and although it is said all men enjoy a laugh, the path of the humorist is not entirely sheltered by shade trees. Make a man laugh, and he is your friend; laugh with him, and he will swear by you; laugh at him, however, and be the joke ever so brilliant, his obtuseness is marvelous,—and thus goes the world. The Lounger is not in the least surprised that in connection with all matters of note and importance his own ideas and opinions should be considered of far greater value and significance than those expressed by his friends, the other members of the Board, in the editorial columns,—this is but right and proper,—nor, indeed, is he greatly astonished (although he must confess he is often deeply grieved) that his friend the E. in C., when remonstrated with in regard to the propriety of certain of the Lounger's remarks, by excitable persons more or less intimately connected with the subjects thereof, should most heartily throw all the blame upon the broad shoulders and manly form of the Lounger.

Nevertheless, the Lounger wishes to remind his friends once more, in anticipation, perhaps, of coming events, if he may be permitted to hint darkly at the future, that all his remarks are written with the utmost seriousness; that he never exaggerates; that he loves not irony more than the Devil holy water, and, as regards truthfulness, he and the late G. Washington are in a class by themselves.

The recent completion, after many trials, of the Class-day list, and the consequent absence of the usual weekly election, has left the Seniors more time to devote to the spirited debate in regard to the advisability of the military kindergarten established not long since by the Lounger's friends, the Freshmen. Ninety nine is not slow to avail itself of the opportunity thus afforded, and now let all beware. As the Lounger predicted, the strife has been no light matter, and half has not as yet been told. The violent attacks of a certain communication upon the Varsity Team, the Faculty, and other prominent organizations, has called forth violent indignation, and although the Lounger's efforts, as always, are directed toward bringing about peace and good feeling once more, whether by arbitration or otherwise, the clouds of war, dark and sullen, may still be seen upon the horizon.

**TURNER,  
TAILOR,  
252 Boylston St.**

DISCOUNTS TO TECH. STUDENTS

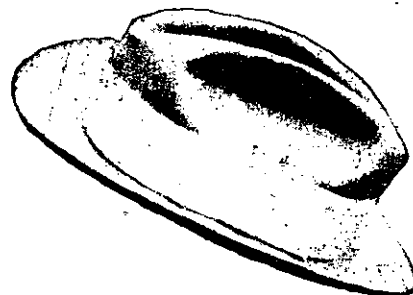
POPULAR PRICES.

FIT, STYLE, AND MATERIALS FULLY GUARANTEED.

**HALL & HANCOCK,**

Novelties in

Soft  
Hats...



Canes, Umbrellas,  
Hat Cases and Gloves.

407 WASHINGTON STREET.

MEMBERS OF THE CO-OP.

**Students Will Find  
SUPERIOR**

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

AT THE MANUFACTURERS.

**Wadsworth, Howland & Co.,  
INCORPORATED,**

218 CLARENDON STREET.

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

Factories: Malden, Mass.

SPECIAL RATES TO STUDENTS.

**United States Naval Force on  
Asiatic Station.**

FLAGSHIP OLYMPIA,  
MANILA, P. I.,

September 13, 1898.

A. F. NATHAN, Esq.,  
Manager,

Schwarzchild & Sulzberger Co.,  
Kansas City, Mo.

Dear Sir:

I beg to acknowledge the receipt of the box of your excellent hams and breakfast bacon you kindly sent.

Please accept my thanks and those of my officers for your gift and good wishes.

Very sincerely,

(Signed) *Aug. Dancy*

(Fac simile)

*Kuyler's*

146 Tremont Street, Boston.  
Delicious  
Bon-Bons and Chocolates.

## The Official Tech Pin.

Gold, \$2.50; Gold Plated on Silver, \$1.00;  
Silver, 75 cents.

**HENRY GUILD & SON,**

Manufacturers of HAMMER AND TONGS, and other Society Pins,  
433 Washington St., cor. Winter St., Boston.

“TIGER.”

“TIGRESS.”

## IMPERIAL.

When you Buy a WHEEL, you always want the Best!

That is why this interests you.

**We Sell the “TIGER.”**

The price is **\$50.00.** You can't do better.

**MORE POINTS OF INTEREST.**

We carry the standard line of SPORTING GOODS.

**SPALDING'S**

**BASE BALLS AND TENNIS SUPPLIES.**

We want your business. Call and see us.

**J. B. HUNTER & CO.,**

60 Summer Street, BOSTON.

ESTABLISHED 1843.

INCORPORATED 1895.

“STUDENTS,” ATTENTION!

Largest Stock and Lowest  
Prices on

**MATHEMATICAL INSTRUMENTS**

and Drawing Materials of all kinds.  
Picture Framing a Specialty.

**FROST & ADAMS COMPANY,**

Importers and Wholesale Dealers,

“Special Rates to Colleges.”  
New Illustrated Catalogue Free.

37 Cornhill, Boston.

**B. BERNSTEIN,**

**Hairdressing Room,**

368 Columbus Avenue,

**BOSTON.**

**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.**



UMBRELLAS.

# HATS.

HAT BOXES.

STYLISH HEAD-WEAR FOR SPRING. ∴ Golf and Eaton Caps a Specialty.

GEO. L. GRIFFIN & SON,

404 Washington Street, Boston.

Ten Per cent Discount to Tech. Students.



## WARD'S

All Students should have our Fine Writing Paper and Envelopes,

BOSTON BOND, BOSTON LINEN AND BUNKER HILL

on their desks. They are very popular and reasonable in price.

College Engraving a Specialty.

SAMUEL WARD COMPANY,

Manufacturing Stationers,

49 Franklin Street, Boston.



Week beginning April 3, 1899.

**Boston Museum.**—“The Christian” begins its fifth week. Viola Allen, as Glory Quayle, is winning the highest praise.

**Park Theatre.**—Herbert Kelcey and Effie Shannon will present Clyde Fitch’s successful play of American society, “The Moth and the Flame.”

**Keith’s Theatre.**—Vaudeville. Biograph.

**Hollis Street Theatre.**—Miss Olga Nethersole will close her engagement in Boston, playing this week “The Termagant,” a new play, and “Camille.”

**Castle Square Theatre.**—“The Prodigal Daughter,” after a phenomenal run, will be replaced by “The Girl I Left Behind Me.” Patrons of the theatre will appreciate the change.

**Boston Theatre.**—The Grand Opera will run for two weeks. The first week, “Lohengrin,” “Tannhauser,” “Les Huguenots,” “Romeo et Juliette,” and “Faust” will be given. Matinees Wednesday and Saturday.

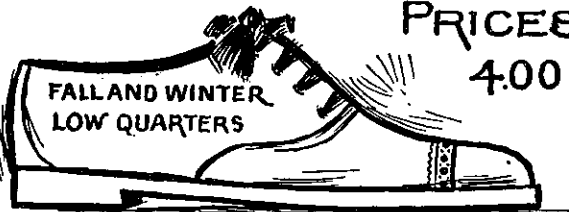
**Tremont Theatre.**—“A Runaway Girl” will be continued for another week. It had a run of over 200 nights in New York, and is without doubt the best light opera that has been in Boston this season.

DISCOUNT of  
10%  
GIVEN TO  
TECH. Students.

GOES & STODDER  
GENTLEMEN’S IMPORTED

AND DOMESTIC

# SHOES



PRICES

4.00 TO 9.00

14 SCHOOL ST. AND  
78 BOYLSTON ST. BOSTON.

English factory at Long Buckby  
near Rugby, Northamptonshire, England.

THE  
**Henry F. Miller**  
**PIANOS**

Are built for buyers who consider quality more than price.

PIANOS FOR RENT.

**Warerooms, 88 BOYLSTON STREET.**

*President,*  
T. E. TALLMADGE, '98.

*Vice Pres. and Bus. Mangr.,*  
G. C. WINSLOW, '99.

**M. I. T. CO-OPERATIVE SOCIETY.**

Managed by students of M. I. T.

Proceeds devoted to scholarships.

**The Co-operative Supply Rooms**

Handle a full line of Drawing Materials and Text-Books at low prices.

A CO-OPERATIVE SOCIETY MEMBERSHIP TICKET entitles the owner to discounts on goods bought from any of the tradesmen in the Society's Handbook.

**Scientific Books** } **DAMRELL & UPHAM,**  
 The Old Corner Bookstore  
 293 Washington St., Boston.

**E. O. SABINE,**  
**Ladies' and Gents' Dining Room**

21 MEAL TICKET, \$5.00.

Nos. 202 and 204 Dartmouth Street.

**W. PRESTON HEALE,**

361 A Columbus Ave.,

 **Jeweler.**

Watches Repaired.



Buy your Waterman of

**C. M. LEWIS, '99, III (1).**

Complete line always on hand.

**THE SEA GRILL.** *O'BRIEN BROS. Proprietors.*

---

The first place of the kind in America.  
 Only that which lives in the sea . . . . .

**FISH, CLAMS, OYSTERS,**  
**AND LOBSTERS,**

Cooked and served as they never were  
 before in hotel or restaurant in Boston.  
**BROILED LIVE LOBSTER . . . . .**

---

*216 BOYLSTON STREET, THROUGH TO  
 54 PARK SQUARE.*

# L. P. HOLLANDER & CO., Fine Ready-Made Clothing.

Everything shown by us is Our Own Make from Imported Materials.

COVERT COATS, Correct Cloths, Stylish Cut, \$20.00 upward.

SACK SUITS, Tweeds and Homespuns, \$18.00 upward.

MACKINTOSHES, Largest Variety in Boston, \$5.00 to \$26.00.

## Hat Department.

All the Latest Shapes in Derbies and Soft Felts.

10 Per Cent Discount to Members of Co-operative Society.

212 BOYLSTON STREET, AND PARK SQUARE, BOSTON.

## THE Union Gymnasium

48 BOYLSTON ST. (near Tremont).

PRACTICAL.

Complete  
Modern  
Apparatus.

Popular  
Classes.

Terms,  
\$5 and \$8  
per Year.



POPULAR.

Extra  
Large  
Lockers.

Competent  
Instructors.

No Extra  
Charge  
for Instruction

**BOSTON YOUNG MEN'S CHRISTIAN UNION.**

WM. H. BALDWIN, Pres.

GEORGE PEIRCE, Sec'y.

# PATENTS

Quickly secured. **OUR FEE DUE WHEN PATENT OBTAINED.** Send model, sketch or photo. with description for free report as to patentability. **48-PAGE HAND-BOOK FREE.** Contains references and full information. **WRITE FOR COPY OF OUR SPECIAL OFFER.** It is the most liberal proposition ever made by a patent attorney, and **EVERY INVENTOR SHOULD READ IT** before applying for patent. Address:

## H. B. WILLSON & CO.

PATENT LAWYERS,  
Le Droit Bldg., WASHINGTON, D. C.

TELEPHONE, 101 BACK BAY.

## The Thorndike Florists.

Florists and Decorators.  
Table Decorations a Specialty.

230 BOYLSTON STREET,

Adjoining  
Hotel Thorndike.

# SPRING OPENING.

.. OF ..

The Latest Styles  
and Novelties.

## A. H. MATZ & CO.

Merchant Tailors,

347 Columbus Ave., BOSTON.

Special Discount to Students.

REPAIRING AND PRESSING NEATLY DONE.



J. C. LITTLEFIELD,  
Tailor and Outfitter,

Removed to Large Store,

12 Beacon Street.

I can offer you a 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.

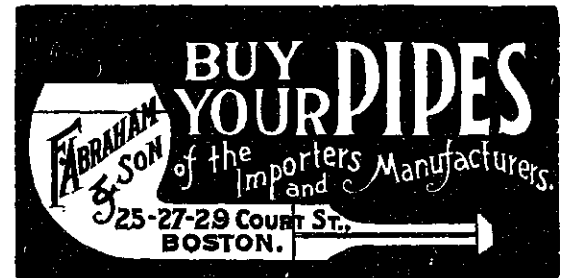
DISCOUNT TO STUDENTS.

All Goods Required by  
Students at

## MACLACHLAN'S.

214 CLARENDON STREET.

Drawing Instruments and Materials, etc.  
Fountain Pens, Text-Books.



Class and Monogram Pipes Our Specialty.

SPECIAL RATES TO M. I. T. STUDENTS.

\*\*\*\*

**Class Rate 1898-99.**

Crown Photograph — Carbonette Finish . .  
FIRST DOZEN, \$3.00 ✕ ADDITIONAL DOZENS AT \$2.00  
FOUR DOZEN (50) PICTURES ORDERED AT ONE TIME, \$8.00  
EIGHT DOZEN (100) PICTURES ORDERED AT ONE TIME, \$12.00  
With each lot of four dozen two finished proofs allowed.  
With each lot of eight dozen four finished proofs allowed.  
Each extra position finished for fifty cents each . . . .  
Ten extra pictures given free with every order for 50 . . .  
Fifteen extra pictures given free with every order for 100.

*Elmer Chickering*

The Leading Photographer.

21 WEST STREET, BOSTON.



YOU CAN BUY  
"THE TECH."  
AT  
MACLAGHLAN'S



## THIS NEVER HAPPENS ON A LOVELL "DIAMOND"

Mechanically perfect, they are fast, easy running, and the strongest bicycle yet produced. Every point is a good point. The following are a few to which we would particularly call your attention: The Lovell triple arch fork crown is a strong and attractive feature; the Lovell flush taper joints are made light and give the frame a strong and handsome appearance; Lovell interchangeable chain, so constructed as to prevent irregular stretch, friction and rattle; divided crank axle, which will permit the removal of bearings for cleaning and not change the adjustment. There are many other important features which will prove invaluable to the rider.

— MADE BY —

**John P. Lovell Arms Co.**

BOSTON, MASS., U. S. A.

Agents almost everywhere.  
Send for Catalogue.

**\$50** is the price.

## The Technology Review.

A GRADUATE'S MAGAZINE devoted to the interests of the MASSACHUSETTS INSTITUTE OF TECHNOLOGY, and published four times a year by the Association of Class Secretaries, at 71 Newbury Street, Boston. Price, one dollar a year; single copies thirty-five cents