THE · TECH

VOL. 19.

NOV. 29,

1899.

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THE TECH


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

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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.

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WITH last Saturday’s game between Yale and Princeton, the football season of 1899 practically comes to an end. The only remaining games of general interest are those between Pennsylvania and Cornell, and West Point and Annapolis.

During the past seasons there have been some unlooked-for surprises. Harvard’s record, while a clean one, was a disappointment to her supporters in that she failed to defeat Yale as expected. Yale’s record has, on the whole, been disappointing. Pennsylvania has taken a back seat in comparison with former years, while Princeton has good grounds for her claim to the championship of ’99. One of the features of the season has been the development of first-class teams at Columbia and Cornell.

The game has been given a great impetus by the fine exhibitions of clean, hard football that have characterized all of the big contests this year. Four years ago the game was in danger of being ostracised from the list of college sports by the brutal spectacles which were unfortunately exacted too frequently on the gridiron. Now, however, the game stands without a peer, and seems destined to maintain its enviable position in the future.

OR a large college such as Technology, and a college which has, moreover, considerable reputation for standard work, accomplished by its musical clubs, to be without its representative song is a strange circumstance. Such a composition, — for the college song is coming to be looked upon as almost a concomitant with a college, — is, as a rule, characteristic of the work, the aim and the life of the Institution. It is an instrument for the expression of enthusiasm or feeling, which finds no other medium. This lack in Technology is something which it is most desirable to do away with.

It is time that some attempt should be made towards the production of such a song, but, up to date, none has been forthcoming. Of
course, there are great difficulties in the way; to express in words the dignity characteristic of the Institute, and, at the same time, to draw upon the sentiment of the students and their love of Alma Mater, and, moreover, to set these words to music that will harmonize, is a difficult task. It is a field for the strongest Technology men, and for the strongest only. So the Tech. looks expectantly towards the future, in the hopes that such a song may be produced.

HE announcement some time ago that the Walker Club had elected its manager for the Technology theatricals makes sure already of one leading feature for Junior week. The prompt action is to be commended; preparations, as well as plans, cannot be made too early by those intending to supply part of the entertainment for Technology’s gala week.

The assurance of a Walker Club Play for next year is pleasing to all, and especially so in view of the success attending their last performance. That no object of benefit has been named thus far is not of importance; sufficient time remains for that, and the knowledge of the commendable disposal of the profits, made in previous years, is sufficient assurance for most satisfactory arrangements in the future. The $600 made this year for the gymnasium gives promise of a proportionally great success in the next venture.

The Winter Concert.

The Annual Winter Concert of the Musical Clubs will be held in Huntington Hall, on Wednesday evening, December 20. The proceeds are to be given to the Class of 1900, to aid in raising the class debt. Tickets are fifty cents. Advance tickets may be obtained after December 5, from members of the clubs or the Senior Class. Advance tickets are changeable for reserved seats on and after December 13.

The Lowell Free Courses.

The Massachusetts Institute of Technology, through members of its Faculty, is intimately connected with what in other cities would be called University Extension, but is known in Boston as the “Lowell Free Courses.”

These members of the Faculty give, in the Lowell Free Courses, lectures on such general or professional subjects as are chosen each year for the series. The treatment is adapted, in some cases, to the needs of teachers and advanced students; in others, to the wants of men engaged in technical pursuits, who may have been unable to obtain a comprehensive scientific or literary education. Courses are offered in literature and language, as well as in science and engineering. The courses are held in the recitation rooms and lecture halls of the Institute, and, to illustrate the lectures, pieces of the Institute apparatus are used.

Since the first of November, for two evenings every week, lectures on Steam Engineering (from the generation of steam to its use), practical methods of testing steam plants, and discussions on economical practices have been held. After having derived the formula used in Differential Calculus, its application is treated in another set of lectures. Another course deals with Descriptive Geometry, and in another, demonstrations on the use of Electrical Measuring Instruments are attended by a class. In those, on the Elements of Mechanism, the designing of cams of four-bar linkage and gear-teeth is being treated. Similar to the work in Political Economy and Industrial History of the students of the Institute is the course on Railroad Economics and Legislation. One of the purely literary courses is that given by the professor of English Literature on the “Beginning of English.” Later in the season, other courses will be announced.
Freshmen vs. Drill Instructor.

Last week several Boston papers printed what was presumed to be an account of the recent trouble between the Freshman Class and Lieutenant Hamilton. The following extracts from one of them will serve to show that the reports almost wholly mis-state the situation.

"On the last drill day Irvington St. Armory was the scene of a pitched battle, in which the settees and cuspidors played a conspicuous part, being used as battering rams and projectiles.

"Lieut. Hamilton, Drill Instructor, succeeded in quelling the tumult and the drill was held as usual, an action on his part which was rewarded later by being hanged in effigy. The dummy hung at the lamp post before the armory door, and was greeted by a chorus of most lamentable howls from the students.

"Hamilton is as popular as a Tech Drill-master could be, and the demonstrations are not directed personally at him, the students say, though he has several reasons for supposing the contrary.

"The compulsory lecture on military science which accompanies the drill course is also intolerable to the students, who made such a demonstration Saturday that the lieutenant declared that he would hold them responsible for the lecture, whether delivered or not.

"Today, accordingly, the students are to receive a written examination upon a lecture which they have never heard, and it is expected that a few "flunks" will occur.

"The Tech authorities are resolved that the disturbances shall cease, though they have not yet decided what method to employ."

It is true that Lieutenant Hamilton was hanged in effigy before the drill but no riot followed. Also, Lieutenant Hamilton announced that no printed notes of his lectures would be published and that examinations would be held covering certain lectures whether the lectures were actually delivered or not. We do not believe that drill is "intolerable to the students." It has not been looked upon in this light in the past and it is inconceivable that, with the recent impetus given to military training in this country by the Spanish-American war, the present Freshman class should differ so from preceding classes. Formerly the majority in each class has been glad to profit by the course in Military Science. The work in the Armory has been systematic and the discipline perfect. The lectures were listened to by the more interested students, and the others bought the printed notes before the semi-annual examinations.

This year, however, drill did not begin until late in the fall, and on the very first day the instructor made such an exhibition of his lack of method that a general demoralization set in. From week to week the disturbances have gone on until the instruction in drill has become a farce.

Lieutenant Hamilton has been both unsuccessful in his attempts to secure order and unfortunate in the methods he has followed. As there has been no cause for expressions of indignation in the past, it seems to the observer that there must be something wrong somewhere when the disorder in the lecture hall is so great as to prevent any students, who so desire, from taking notes, and to call forth the threat from the instructor that students will be held responsible for lectures which it is impossible to take down. It is to be regretted that the trouble has gone so far but we believe if the course in Military Science is carried on properly by a competent and tactful instructor the support of the students will be secured.

The Institute authorities have now taken the matter up and are resolved to uphold Lieutenant Hamilton. If the class wishes to continue its opposition it can do so through the Institute committee. The present condi-
tion of affairs cannot continue. If the class as a whole feels it is in the right the assistance of the Institute committee should be sought; if it is in the wrong it should admit it; but in any case the present nonsense must end.

**Hare and Hounds.**

The Hare and Hounds Club ran from Newton Centre on Saturday, November 25. Hunter, '02, and Pember, '02, were the hares and laid a trail of about seven miles. The course led through the grounds of the Newton Theological Seminary and south of Newton Highlands, crossed the Charles River at Newton Upper Falls into Needham, returning across Echo Bridge, through Eliot Street and down Beacon Street. Dearden, '01, was first hound in after a fast run for the finish. The runs will be kept up as long as the ground is free from snow; the next will start from Chestnut Hill Reservoir on December 9.

**Technology Club.**

At the Technology Club last Friday evening, Dr. Henry A. Wolff gave a talk on the "Transvaal and the Present Crisis," which deserves special mention. He began with the history of the settlement of South Africa by European companies, and continued the narrative down to the present day. With many details, he showed the true state of affairs, and held, for two hours and a half, the undivided attention of the clubhouse, packed to overflowing. He closed with an exciting account of the Jamieson Raid of 1895, and as he was a member of the "Johannesburg Reform Committee" of '75, and was one of the three or four of those who escaped afterwards, his conclusions, which are that the present fighting is a long overdue "calling of a bluff" by the English on Kruger, who represents an Oligarchy of the worst form, have the ring of truth.

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Course IV. 5. Course VI. o.

Course spirit culminated last Thursday in a football game between Courses IV. and VI. The contest occurred on Brookline Common and was witnessed by the Seniors of both courses en masse, with the exception of a few grinds, and by a considerable number of outsiders. The game was well played from start to finish, the Course VI. men electrifying the onlookers by brilliant plays, but meeting too much resistance in the designs of the Course IV. team. The latter showed better team work and more consistent playing, while VI. team lacked in weight and practice. For IV. Stewart and Price carried off the honors; MacMasters for VI. did the best work. Course VI. kicked off outside twice, thus giving IV. the ball. They began a determined rush up the field but were caught offside, the ball then going to VI., but after gaining 10 yards they lost on downs. IV. then secured six first downs but fumbled when well up the field, a VI. man falling on the ball. VI. then did the fumble act and IV. took the ball again, only to lose it by another fumble. Stewart was forced to kick and the ball went over the goal line for a touchback. The ball changed hands several times but time was called before either side scored. Stewart kicked off to Hammond, who messed things but finally regained 15 yards. After a few gains VI. fumbled but retrieved and kicked to Stewart, who, by wonderful dodging, cleared the field and after looking around for the goal line touched down for the first score. As no goal posts were visible, no attempt at goal was made. VI. kicked off to Ford but he was downed in his tracks by VI.'s agile forwards. VI. got the ball on a fumble but was unable to gain and retreated 20 yards rather than lose the ball. After some plays had been worked and the ball alternated between IV. and VI. time was called with IV. as victor, 5-0. The line-up:

IV. 
1.e. Pigeon 
1.t. Puchey 
1.g. Rapp 
c. Gowell 
r.g. Magdeburg 
r.t. Ford 
r.e. Sherman 
q. Lawrence 
l.h. Price 
r.h. Chauffée 
f.b. Stewart

VI. 
1.e. Reardon 
1.t. Chase 
1.g. Silverman 
c. Smith 
l.g. Hopkins 
1.t. Hapgood 
1.e. Collier 
q. MacMasters 
r.h. Hammond 
l.h. Brown 
f.b. Bolster

Referee, Jouett; Umpire, Parrock. Halves, 15 minutes.

Course III., 10; Course IX., 6.

Course III. beat Course IX. on Tuesday, November 21, by two touchdowns to a touchdown and a goal. The game was remarkable chiefly for the lack of team-play on both sides and the brilliant work of individuals. Course IX. scored almost at once on a long run by Pope from the kick-off and a few line-plunges. After this, however, Course III. braced up and made two touchdowns by steady line-bucking and several good end-runs. Pope's work for Course IX. was a feature, while Fleming and Haley were the stars for Course III. The line-up:

COURSE III., 1901. COURSE IX.
Madero, 1.e. L.e., Howe
Eager, 1.t. 1.t., Cross
Garrett, 1.g. 1.g., Kingman
Derby, c. c., Laws
Seston, r.g. r.g., Smith
Sears, r.t. r.t., Weeks
Lamson, r.e. r.e., Lowe
Eveland, q.b. q.b., Constantine
Haley, r.h.b. r.h.b., Clark
Fleming, l.h.b. l.h.b., Robson
Peterson, f.b. f.b., Pope

Umpire, McGann, '01; Referee, Anderson, '00. Time. 15 min. halves.

Just Like Them.

Binks: What is all that discussion over there about?

Banks: O, that is a women's literary society; they are discussing John Kendrick's bangs.—Ex.
An intermediate examination was given in military science last Saturday.

H. W. Maxson, '01, has been elected to the Board of Editors of The Tech.

The Senior architects are getting in the finishing touches on the first problem of the year, A Design for a Small Museum.

The engine-test at the Edison Station, at which some Course II. and VI. Seniors are to assist, has been postponed on account of trouble with the reheater.

On account of legal engagements in New York, Mr. Wilson was obliged to postpone the commencement of his lectures on patents, which were to have been given on Monday afternoons to the Senior Class.

Prof. C. H. Peabody, H. M. Flanders, I., H. L. Grant and H. A. Macpherson, XIII., were on the new battleship Kentucky during her official trial trip last Friday. They were shown every courtesy by the officials and given every opportunity to inspect the whole ship.

During the past week there has been on exhibition, in Copley Hall, Mr. Louis Prang's collection of 1,500 paintings. It is a matter for regret that this collection, which comprises specimens of the best work of America's foremost artists, is not to remain intact. As it is to be sold at auction, beginning tomorrow, we hope that all lovers of art will embrace a last opportunity to view this fine collection.

On Thursday evening, November 23, Mr. A. D. Little read, before the Society of Arts, an exceedingly interesting paper on "Some New Cellulose Industries." Mr. Little is, perhaps, the foremost authority in this new field, and his description of the manufacture and uses of new cellulose compounds was heartily appreciated.

During the past summer, Mr. Little has visited most of the large manufactorys in Europe. While the cellulose industries have been developed and are now almost exclusively carried on abroad, the prospects for their early establishment on a large scale in this country are very promising.

It pains us to announce that we have cause for regret. Owing to lack of space in our last number, we were obliged to omit an announcement of an exceedingly important event which, on account of the time-honored reverence in which it is held by ex-editors of The Tech, must not be overlooked by the present wielders of the blue pencil. The board coverings have been placed on Rogers' steps. Snow has now permission to fall.

Technology Calendar.

Monday, Dec. 2, 1 p.m. Tech Board. Tech Office.
Wednesday, Nov. 29 Sophomore Class Meeting.
Thursday, Nov. 30, Friday, Saturday, Dec. 1 and 2. Thanksgiving recess.

"THE GIRLS ARE FOND OF THESE".

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387 Washington St., Boston.
D. D. Field has been elected captain of the Sophomore track team.

The Varsity football team was photographed on Monday. H. W. Maxson, 1901, has been elected captain for next year.

Whitehouse, ex-1900, has been pitching splendid ball for an Athletic Club team in Portland, Ore., during the past season.

Students who have not yet made returns of football and cane rush tickets are requested to do so without further delay, in order that the manager may complete his report for the season.

Now that the football season has come to a close, training for the indoor meet should begin at the gymnasium immediately. The first indoor meet will be the class games, which will be held some time shortly before the Christmas recess. The management of the Athletic Association is also desirous of holding the annual open indoor meet which was omitted last year. Beside these two meets there are numerous indoor games to be held in and around Boston during the winter where Tech. men should pick up valuable experience and some prizes. Training for the relay team that will represent Tech. at the B. A. A. and Boston College meets will also begin soon. Immediately after the Thanksgiving recess men will be appointed by Captain Baxter to take charge of candidates in each event, and every man in Tech. who has had any athletic experience should begin work.

'87. Mr. P. A. Mosman, III., is now in the employ of the American Smelting and Refining Co., at Pueblo, Colo.

'90. Mr. J. O. DeWolf, II., is now mechanical engineer for the firm of W. B. Smith, Whaley & Co., of Boston.

'90. Mr. Wm. H. Fenn, I., has been elected president of the Manufacturers' Contracting Co., of Newark, N. J.

'95. Mr. N. Katzschmar, Jr., II., has been raised to the grade of Engineer, U. S. N., and assigned to the McLane, at present stationed off the Florida Keys.

'96. Mr. C. I. Crocker, I., has gone into the Navy Yard draughting room over at Charlestown.

'97. Mr. Geo. S. Lawler, VI., is now with the Boston Elevated Street Railway Co., in their electrical department.

'98. Mr. Lyman Arnold, VI., has accepted a position with the General Electric Co., in Lynn.

'99. Timothy C. O'Hearn, X., is with the Eastman Kodac Co.

'99. Frederic Tappan, VI., is with American Bell Telephone Co., Boston.


'99. Haven Sawyer, II., has the position of assistant superintendent of machinery at the Uintah County Copper Summit Co. of Vernal, Utah.

'99. Ben Morse, II., Captain of last year's Varsity Football team, has discontinued work at Harvard Graduate School and undertaken the management of the Morse Bros. Stove Polish Company.
Deeply does The Lounger praise his Editor for summoning his annual delirium of happiness when he did, for had it not come then, it would have remained unfelt and unknown,—eclipsed by the sorrow-laden news so recently come to The Lounger's attention. Thanksgiving is Thanksgiving no more. And all because the Freshmen have been raising such complete and especial mischief with their heroic tutor in the noble art of strategy and war.

The sad history is this. The Freshmen have for some time been averse to studying the art of martial slaughter: their sensitive organizations, nurtured by Russian Peace Proclamations and Arbitration Tracts, found the mention of gore and grapnel repellant to their delicate sensibilities. War—the iron-bound edition of a Freshmen election!—horrible! Strategy—the cane rush of national sword slashers!—too much! Humanity rebelled. Determined to substitute a practice of tranquility for such imperfect doctrine, they declared war upon their chieftains, revolted against the laws of the Commonwealth and vocally bombarded the lecture.

But the instructor—he was a strategist: he knew a game worth several of that. In a voice as calm as it was majestic, in a gentle "Give-'em-h—boys" kind of tone, in words as cold as a frozen copper run and as concentrated as a Heat lecture, he spoke. His thoughts were few, simple, direct. The Freshmen were informed that they "would be given a semi-annual examination upon his lectures for the term: no lecture notes would be printed: no more lectures would be given." Inspiration and promiscuous reading alone must supply the necessary knowledge. The sword had fallen. The few, quiet words came as an artillery broadside to the untutored Freshmen. They thought their opponent an unloaded bomb; a big gun, but of the Quaker variety; instead, they found his will a Gatling gun, his determination a Maxim rapid-fire exterminator, both loaded.

The news had spread. The prospect of 350 specials for next year reached even the Secretary's Office, just in time for him to countermand an order for a new lot of diplomas. Monday and Tuesday brightened uneventfully, flickered undecidedly, and went out. Wednesday came, and with it the hour for Military Drill. Blithely the Head Military Wizard betook himself to the drill-hall of the Freshmen. He came in sight of the structure. He approached, then suddenly looked, wavered, slackened, gazed, staggered. There he saw, suspended near the door, himself—in much the same position that the rabbit is after it has run its head through the nose, hanging from a bent willow tree. Stepping to the gutter, he picked up a splendid triangular specimen of quartzose geology, and with it inflicted a reverberant thud upon the side of his head. A virtual image of the delayed Leonids convinced him that he was existant still in the material sense as well as in the spiritual, and that the figure pendant at the door was a vile imitation. Drawing his sword, he gave himself the order for advance at double-quick, and sprang to the attack. In a short, but desperate struggle, the victim was cut down—sounds brutal!—and an entrance effected.

Then for two weary hours was heard the incessant tramp of Freshmen feet, many and large,—at first quick, firm, decisive, finally laggard, shuffling, confused. Langishing glances at the water fount availed naught, and as the Freshmen dropped, one by one, by the wayside, more and more evident became the true inwardness of the strategist's little game.

Four o'clock finally occurred: the Military Scientist read the Riot Act and dismissed the Freshmen now so moved from their naturally sensitive, dove-like disposition as to verge on the mildly remonstrative. Assembled about the entrance, they awaited the advent of their popular chieftain. In vain: he had read somewhere in his references on strategy—surely not in any of the works of his immediate predecessor—of something supposed to constitute the better part of valor, and of this component quality he made extensive use. No more was his countenance seen that day, and the Freshmen hero-worshippers had to transfer their enthusiasm to the two sub-gore-ists, of their own blood, who were seeking favor in the eyes of their master and the offices of Adjutant and Major. These individuals were, however, as modest as their chief, and the masses were again foiled. Nothing remained but bombardment or retreat. As the heaviest projectile had already been used and retained by the Instructor in convincing himself of his proper consistency and consciousness—as previously stated—the idea of violent attack was abandoned. There occurred a graceful retreat—and the Head Strategist was again master of the day. Little had the Freshmen thought of the inconspicuous door leading from the armory to Dartmouth Street at the other end of the building; had it occurred to them, doubtless their siege of an empty building would have been abandoned long before.
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Castle Square Theatre.--The next play in which this company will appear is in a dramatization of Bulwer Litton's "The Lady of Lyons." This is the first of a series of standard plays during the winter.

Hollis St. Theatre. -- Sir Henry Irving and Miss Ellen Terry will appear for the last week of their engagement in the same series of plays which they have already produced. This is the only engagement of Mr. Irving's company in Boston this year.

Tremont Theatre. -- Augustus Thomas' stirring play "Arizona" will be presented with a strong cast. Theatre patrons will enjoy this production.

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<tr>
<td>Mattresses in great variety</td>
<td>1.50 &quot; 18.98</td>
<td>71-2x10 1-2 &quot; 7.98</td>
</tr>
<tr>
<td>All-Feather Pillows</td>
<td>.97 &quot; 5.00</td>
<td>9 x 12 &quot; 10.98</td>
</tr>
<tr>
<td>Bed Springs</td>
<td>1.06 &quot; 6.98</td>
<td>Wool Smyrna, 6 x 9 &quot; 7.98</td>
</tr>
<tr>
<td>Chamber Suits, various woods and styles</td>
<td>9.98 upward</td>
<td>Ex. Quality Smyrna, 6 x 9 &quot; 10.98</td>
</tr>
<tr>
<td>Chiffonniers</td>
<td>4.92 to $19.98</td>
<td>9 x 12 &quot; 17.48</td>
</tr>
<tr>
<td>Rockers, plush and rattan, every style</td>
<td>1.47 &quot; 19.98</td>
<td>18.98</td>
</tr>
<tr>
<td>Lounges and Couches, every style</td>
<td>4.98 upward</td>
<td>6 x 9 &quot; 19.98</td>
</tr>
<tr>
<td>Chiffonier Beds, with mattresses and springs,</td>
<td>11.98 &quot;</td>
<td>71-2x10 1-2 &quot; 23.68</td>
</tr>
</tbody>
</table>

CARPETS.—Our assortment of Carpets is now full and complete, and we guarantee our prices to be the lowest in Boston.

UPHOLSTERY.—This you will find an admirably equipped and conducted department. CURTAINS and DRAPERIES of all kinds, SOFA PILLOWS, etc., always at BOTTOM PRICES. SPECIAL ORDERS executed by skillful workmen, measurements and estimates being made FREE OF CHARGE on orders either large or small.

M. I. T. UNIFORMS

TO ORDER,

QUALITY and FIT GUARANTEED

OUR FALL AND WINTER STYLES IN SUITS AND TOP COATS exhibit the Greatest Variety of Up-to-Date Novelties at Popular Prices ever shown.

The New Striped Tweed and Worsted Suits with D. B. Vests, $7.50 to $15.00.
Nobby, Covert Top Coats, $6.50 to $20.00.
Hats and Furnishings, all New and Desirable, at Popular Prices.

THE TERMINAL HAT AT $2.00, is the Best ever shown at the price.

SPITZ BROS. & MORK, 65-69 Summer Street.

“A slice to a pipeful” is one reason why Old English Curve Cut pipe tobacco is so popular. The curved tin box that fits any pocket is another reason. No other pipe tobacco has ever made as many friends in so short a time.

“It disappoints no one.”

A trial box will be sent to any one anywhere on receipt of ten cents in stamps. Address Old English Department, The American Tobacco Co., 11 Fifth Ave., New York City. All dealers sell it.
Thanksgiving Day.

There is an air of determination about this cook which illustrates the general Thanksgiving feeling. Business is hurried and there is a great deal to be done. The day before Thanksgiving is usually the busiest of the season in the clothing trade of Boston. We invite you to examine our stock this week, with full confidence that we can please the most exacting or fastidious.

OAK HALL CLOTHING CO.,
95 to 105 Washington Street.

AN EXTRA ASSORTMENT OF
GOLF TROUSERS
In Latest Patterns,
FOR FALL AND WINTER WEAR,

Continental Clothing House,
Cor. Washington and Boylston Streets.

WILLIAMS BROS.,
Importing Tailors,
1458 WASHINGTON ST.

Our aim will be to furnish good garments at reasonable prices.
An examination respectfully solicited.

FUR COATS A SPECIALTY
ESTABLISHED 1875.
Ten Per Cent. Discount for Cash.
A. H. MATZ & CO.,

.. Merchant Tailors ..

347 COLUMBUS AVENUE.

FALL AND WINTER OPENING.

Suits, to order, $25 up.
Trousers, to order, $7 up.
Dress Suits, Silk Lined, to order,
$40 up.

A Liberal Discount to Students.

ALL GOODS REQUIRED BY STUDENTS AT

MacLachlan's,

214 Clarendon Street.

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

J. C. LITTLEFIELD,
Tailor and Outfitter,

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

Golf Breeches, Riding Breeches, and Dress
Suits a Specialty.

DISCOUNT TO STUDENTS.

Geo. H. Greenwood,
9 & 11 Boylston Street.

DIRECT IMPORTER OF MEER-
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SMOKERS' ARTICLES AT THE
LOWEST PRICES.

MEMBER OF THE CO-OP.

THERE is not a photographer in New England who has
been more successful than Elmer Chickering, No. 21
West Street, and people who desire to have first-class
photographs taken of themselves, or of their friends, should go
to this gallery. His success in the business is wonderful. His
pictures are admitted to be exact reproductions of the subject,
and are remarkable for their clearness and fidelity in detail.
Among his patrons are the leading citizens of the United
States, including presidents, governors, mayors and others
prominent in official lines, the highest military officers, the
most prominent opera singers, the leading actors and actresses.
Far and near his pictures are known. In Europe as well as
America they are highly admired. Mr. Chickering is a host in
himself, but with good judgment he has surrounded himself
with a corps of operators and assistants in his operating
rooms who have no superiors, while in his office is to be found
young lady attendants who thoroughly understand how to
please patrons, and by their uniform courtesy add much to the
popularity of "Chickering Studio."