

THE TECH

VOL. XXXII. NO. 33

BOSTON, MASS., THURSDAY, NOVEMBER 7, 1912

PRICE TWO CENTS

MR. JOHN C. JOHNSON ADDRESSES CATHOLICS

Speaks on False Teachings of Socialism and of Some Remedies.

Last night the Catholic Club had for its speaker Mr. John C. Johnson, a prominent lawyer of this city. The seventy-five men who were present first enjoyed a dinner in the upper rooms of the Union, and then heard the speaker express the views of the Catholic Church on Socialism.

Mr. Johnson first pointed out that the Church feels that it has to offer an antidote to some of the false teachings of Socialism, and that it is through the members of the Catholic Club and the influence that they will have later in life that the teaching of this remedy can be effected. He said that the present is conceded to be a time of crisis, and that some believe that the world is coming to better things, while others fear a cataclysm. He said that the Catholic Church holds the key to the future, and that the application of its teachings will prevent social destruction.

He quoted the writings of Pope Leo XIII, who says that to remove the faults of a social system one must recall it to the principle on which it was founded, and from which it has departed. He said that this idea of going back to fundamentals is applied, for example, in medicine, where the normal functions of the body must be studied before the cure can be effected.

Following out this idea, he went back to the foundations of the social system, so that he might show that the remedy of the Catholic Church is but a return to the principles on which society was based. He said that civilization is more than an aggregation of individuals, and he went on to point out the forces which make the system hold together. The sacrifice of the individual is precedent to the organization of society. He said that the theory of social compact is bad. The clause of the Declaration of Independence which says that the

(Continued to Page 3.)

T. C. A. SPEAKER.

Rev. E. H. Van Etten to Speak On "The Second Mile."

Today, at 1.30 o'clock, in the Union, Rev. E. H. Van Etten, curate of Trinity Church, under the auspices of the Technology Christian Association, will address the students assembled on "The Second Mile." Mr. Van Etten is a recent graduate of Amherst College, and came to Trinity Church only last year. He has had much experience with Tech men in connection with those who are members of the Brotherhood of St. Andrew, with which he is closely connected and in whose interest he has accomplished much of importance.

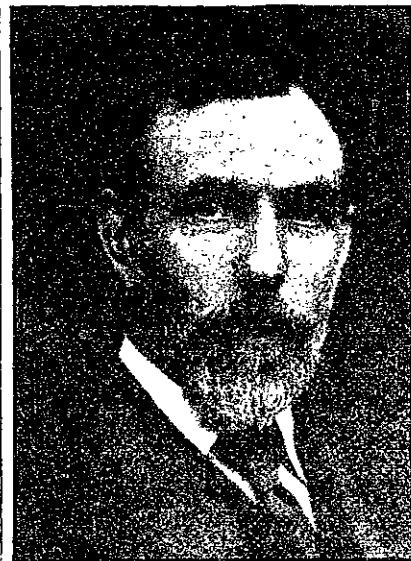
He has shown much interest in the men here, especially by the hospitality that he has extended to them at the Trinity House and in many other ways. Above all, he is a young man and is well fitted to address young men, and a crowd is expected in the Union today.

SIR WILLIAM RAMSAY ADDRESSES STUDENTS

He Speaks on the Relation of Hobbies to a Man's Life Work.

The Convocation yesterday noon was one of the most successful held in Huntington Hall for a long time. Sir William Ramsay was introduced by President Maclaurin in a short and interesting speech. He said that these convocations were to draw the men from their laboratories and studies, and get them out of themselves. He said that Sir William might speak very interestingly on the more advanced phases of Chemistry, but that the speaker was a man who believed in having interest outside of his vocation, and so he was going to speak on something not in the least connected with chemistry.

Then Sir William stepped forward. But his first words were drowned in an applause which promised to last ten minutes. When quiet prevailed he said that he was going to talk on



SIR WILLIAM RAMSAY.

"Hobbies." The moral of his talk, which he desired to state first, was that every one should have some interest outside his life work, that is, he should have a hobby.

He said that his work as a chemist had required him to have a passing acquaintance with many languages, and through his study of ancient tongues he had become interested in the attempts at inventing a universal language. He mentioned several of the more important artificial languages that have been proposed, and characterized each one by a few concise comments. He showed by examples how Esperanto forms new words by additions to a fundamental root, and mentioned that many simplifications of it have been produced. But he has been working on a system of his own which may be nicknamed modernized Chinese. He derived the initial idea from the study of Egyptian. He said that the hieroglyphics were originally pictorial writings, but

(Continued on Page 3.)

FIELD DAY EVENTS EXPECTED TO BE CLOSE

Teams Evenly Matched—Tickets On Sale Today at 12.00 in Union.

From present indications, the meet which will start tomorrow afternoon at 2.15 P. M., will be one of the closest Field Days in history. No safe prediction can be made of the result of any one of the events. The Sophomore football team is practically the same which last year defeated 1914, and so far this season has shown exceptional form. On the other hand, the Freshman team has several star men, and has been improving steadily during the past few weeks.

Final practice for the 1915 relay team was held yesterday at the Field, the team showing up well. It is a good average Sophomore team, and as a Sophomore relay team has never been defeated in the history of Field Day, the chances are that the Freshmen will lose in this event. However, 1916 has about four men who are as fast, if not faster, than any men on the Sophomore team, and they will greatly strengthen an otherwise average Freshman team. An extremely close and interesting race is sure to be the result.

The result of the tug-of-war is even harder to predict, as there is no standard by which either team can be compared. The present Sophomore team won last year and has been kept practically intact this year. The Freshmen, however, have more men out for practice, and are likely to have a very good team.

Taken as a whole, the result of every event is in doubt, and the meet is bound to be as exciting and as close as any which has ever been held.

FRESHMAN FOOTBALL.

Finishing Touches This Afternoon at the Field.

Today the Freshmen have their last practice before Field Day. The practice will be light on account of the nearness of the important event Coach Cuddy has been drilling the men hard and he feels confident of a victory by his charges tomorrow. The team has had a successful season and many concede to them the winning of the game on Friday. However this may be, the men are out to do their best, and if determination to make the best showing that they can will count for anything, the Freshmen should certainly stand a chance of coming out victorious. The playing ability of the men averages high, and the team has plenty of men capable of playing a star game. Maier, who was selected captain, is a crack player and one to be carefully watched, as he will, without doubt, keep his opponents on the hustle. The team is fortunate in having a number of capable substitutes to reinforce the regulars.

Prof. Durr is giving a series of lectures on calculating machines; incidentally, Andy Mack is selling quite a number of slide rules.

CIVIL SOCIETY HEARS LECTURE ON TUNNELS

Mr. C. P. Gow Gives Interesting and Instructive Talk On Tunneling.

At the meeting of the Civil Engineering Society, last night, M. E. Langley was elected vice-president of the Society, and C. H. Ober was elected a member of the Program Committee.

After these elections the president introduced Mr. C. P. Gow, a tunneling expert of considerable practical experience, particularly in connection with the Boston subway tunnels. He gave an informal and very interesting talk on the different branches of tunnel construction.

Mr. Gow classified tunnels into two chief varieties, those blasted in rock, and those dug out of soft earth.

Of the former class, he first explained the method of blasting. Holes are first drilled near the center of the place where the opening is to be made, which converge nearly to a point, so that when a considerable charge is fired in them a wedge is blown out of the rock, giving an opening to work with. Holes are then drilled outward from the sides of this opening, and fired, blowing the rock out into the cut. When this process has reached the outer limits of the tunnel a new cut is made in the centre, and the process repeated.

Mr. Gow next took up the subject of earth tunnels. He said that, as a general rule, subject, of course, to exceptions, it was cheaper to construct a tunnel than to dig a trench if the latter would have to be made more than thirty feet deep.

Concerning the method of construction, he explained two methods of protecting the work from caving in, which is the chief concern in earth tunnels. The English method is to build wooden props, of two legs, slanting inward, and a cross-piece, about four feet apart, with planking outside, and drive other planks or "lagging" ahead over the top to hold up the pressure during the excavation. The American method, cheaper on a large scale, is to have a circular shield of iron, with a cutting edge in front and a thin "apron" at the rear. It is gradually forced along by hydraulic jacks, and the masonry is built up under the apron at the rear. The earth comes through the inside of the shield, and is loosened and carried out through the tunnel. In very soft earth a closed conical shield can be used, pushing the earth aside as it progresses.

The lecture ended with the answering of questions by the speaker.

THE WEATHER.

Forecast for Boston and vicinity: Rain late tonight and Thursday; moderate southwest winds.

CALENDAR.

Thursday, November 7, 1912.
4.10—Biological Club Meeting—11 Eng. B.
4.15—Tech Show Orchestra Rehearsal—Union.

1915 CLASS DINNER--UNION--6 P. M. TOMORROW

THE TECH

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

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THURSDAY, NOVEMBER 7, 1912

HATS OFF IN HUNTINGTON HALL.

Take off that hat! Take off that hat! is the childlike cry that we hear before a large number of the convocations have been called to order when some absent minded student stumbles into Huntington Hall with his hat on. Many of us seem to have been so instilled with prep. school ideas that we can never outgrow them, and do not realize that, slight as they may seem, such little incidents detract materially from the dignity of such occasions. How much better it would be if our pent up energy could be thrown off in a few rousing cheers, led by an official leader, or good hearty applause for men who have won laurels for Technology in any field of activity, whether it be Faculty, graduate or undergraduate.

There is, however, a word of merit embodied in this practice which deserves consideration. Huntington Hall should be a place which loyal Tech men revere beyond almost any other spot in all Technology. It is there that our first president lectured for many years and died; there that some of the most famous men of science and the arts in the world have stood during the years past, and last—is it greatest or least?—there is where thousands of Technology men have received their diplomas and made their starts in life to give to Technology the prestige and standing which she now has, not built up so much by her methods of teaching as by the ability of her men.

We should be ready and willing to take off our hats in Huntington Hall as a mark of veneration to the dear old assembly hall which has meant, and always will mean, it is hoped, so much to Technology.

FINANCE COMMITTEE.

Meeting Tonight in Union— Preceded by Dinner.

The Finance Committee will hold its second monthly meeting in the Union tonight. Notices have been sent to the treasurers of the various activities, saying that the meeting will be preceded by a dinner in the Union. According to a ruling made at the meeting, all members who do not attend, and do not signify their intention of being absent, will be fined fifty cents, the price of the dinner. Any notice of non-attendance must be in to Secretary Weeks before this noon in order to avoid the fine.

There are several important matters which were not taken up at the meeting last month. The problem of the finances of the Athletic Committee are receiving consideration from many men.

1916 NOMINATIONS.

Must Be Signed by Ten Men— Due Saturday, Nov. 16, 1912.

The nominations for officers of the Class of 1916 will be opened on Saturday, November 9, 1912. All nominations must be signed by at least ten men in order to be valid. They must be addressed to the Ballot Committee of the Class of 1916, and handed in at the Cage before the hour of 4 P. M., on Saturday, November 16, 1912. Late nominations will not be accepted.

The following offices are open for election: President, Vice-President, Secretary, Treasurer, and two men each to the Executive Committee, Institute Committee and Athletic Association.

RAMSAY'S LECTURE.

Last One to Be Given Tonight On Properties of Niton.

Tonight comes the last of the series of Lowell Institute lectures on "The Discovery of the Gases of the Atmosphere." Sir William Ramsay will take up the interesting story of niton, the last of the gases of the argon group to be discovered. He has much to say about its peculiarities, especially those which prevented its being found in the residues from the fractional distillation of liquid air. These properties are intimately connected with its use as a source of energy, which is another of the topics that he expects to discuss tonight.

In the last five lectures he has treated of the occurrence of oxygen, nitrogen, carbon dioxide, argon, helium, neon, krypton and xenon in the air. He made a special note of the fact that helium was almost invariably found containing uranium and thorium, two close relatives of radium. The full significance of this fact he will also explain tonight. Sir William Ramsay has written much about his investigations of the transmmutations that certain elements undergo in the presence of radium, and perhaps he will also give in his unusually clear way some outline of the advances that have been recently made.

COMMUNICATION.

To the Editor of THE TECH:

Dear Sir:—Now that Field Day and the attendant Theatre night are only twenty-four hours off, it may be rather out of place for me to endeavor to criticize the actions of the officials in charge of Field Day. I am, however, only reiterating the opinion of a large number of men when I say that the action of Technology men in choosing the Shubert performance for its en masse attendance is a regrettable incident. It has been said that the Show will be toned down and the objectionable features removed. This may or may not be the case tomorrow evening, but the fact will not be altered that the performance has already been censured rather harshly by many qualified Boston people, and that Technology is leaving itself open to justifiable criticism.

The action of the faculty in permitting such an action is incomprehensible. They are to be congratulated for not interfering with student activities unnecessarily, but the present is a case when their interference would not only have been warranted but necessary.

Theatre night has hitherto been an occasion when we men might take our lady friends along to see one of the best yearly exhibitions of our school spirit. Tomorrow night many people will stay away and miss this chance because of the bad judgment of a few.

Yours very truly,
DISGUSTED.

PREPARATIONS FOR FIELD DAY ARE MADE

Indications Point to a Record Attendance at Field and Show.

The biggest and best Field Day ever, is the opinion expressed by those who have actively participated in the arrangements which have been going on ever since the term opened, several weeks ago. The teams are all in the pink of condition and eager for the conflict, and both sides are equally confident of victory. The practice lagged at first, but in the last two weeks the men have responded nobly to the efforts of the coaches, and the results will be made manifest in the splendid team work which may be expected Friday. Seats for the Shubert are practically entirely sold out, and grand stand seats at the Field are likely to be at a premium after this noon. All that is needed is a pleasant day to make Friday a big success.

GLEE CLUB REHEARSAL.

New Men and Old Are Requested to Show Up in Union.

The following men, who tried out for the Glee Club last Wednesday, are requested to report at the Glee Club rehearsal to be held this afternoon in the Union at 4.15: F. B. Morton, H. O. Glidden, C. E. Pearce, H. B. Shepard, R. B. Walter, L. Besley, R. A. Richard, F. R. Jones, Coldwell, Field, Schabacker, L. F. Hare, W. E. Wentworth, M. B. Dalton, F. L. Ahearn, W. S. Thomas, C. Stuckler, A. W. Carpenter, F. A. Dale, C. W. Harvey, W. H. Whitehead, J. M. Livermore, J. P. Uhlinger, V. G. Katzenstein, C. G. Norton, R. Welles, T. L. Chase, G. S. Breaker, G. W. Blakely and Delahare. There is still plenty of room for good men and the club is in especial need of first tenors. All men who were on the club last year must try out today if they expect to be members of the club during the coming year. The rehearsal this afternoon will be the first one of the year.

SOPHOMORE DINNER.

Officers Meet Today to Arrange for Cheers and Speakers.

A meeting of the 1913 Class officers will be held this afternoon in 22 Rogers, in order to make the final arrangements for the class dinner and for Field Day. The cheers will also be decided at this meeting.

The Sophomore dinner will take place at 6 P. M. tomorrow evening, after which the class will march in a body to the theatre. The speeches will be short and good. Tickets can be secured from all of the officers and several of the members of the class.

BIOLOGICALS TO MEET.

Dr. M. J. Rosenau to Speak On Pasteurization of Milk.

This afternoon, at 4.30 o'clock, the Biological Society will hold a meeting in 11 Eng. B, when Dr. M. J. Rosenau of Harvard will talk on the subject, "Pasteurization of Milk in Large Quantities."

Dr. M. J. Rosenau has gained a world-wide reputation in his remarkable work on the subject of milk purification, and his extensive information on the subject will permit him to present his lecture in a way that will prove both interesting and instructive. The invitation to hear him is therefore extended to men of all courses, and a large attendance is looked for by the officers of the society.

It is of importance to members of the society to know that previous to this talk a business meeting will be held in the same room at 4.25 P. M.

INSTITUTE COMMITTEE.

Today, at 4.15, in 8 Engineering C, the Institute Committee will meet to transact important business. All members are urged to make it a point to be present.

FRESHMEN, NOTICE!

The class is to march in a body to the stands at the Field from the Brookline Village Transfer Station. The class rooters must be there at 1.30 o'clock.

Admission tickets to the Field must be bought at the Cage before FIVE O'CLOCK TONIGHT.

COLLEGE NOTES.

The yearly count of books at Harvard Library bears lively testimony to the urgent need which the new Widener Memorial Library will fulfill. The figures for 1912 show a total of 1,664,900 volumes and pamphlets, an increase of 75,351 over last year.

The associated Harvard Clubs offer 11 new scholarships of \$300 each to be awarded to the men in those States which have a representation of less than four men in the university. The ultimate plan is to insure the registration in every incoming class of a representative from each State in the Union. There are fourteen States whose representatives at Harvard at the present time number less than four.

The oldest colleges still retain their faculties.

Athletes at Yale not only have to keep their studies to the passing mark, but they must do work of a higher grade than students who are not out for athletics.

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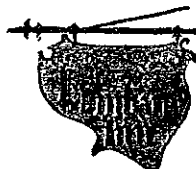
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CONVOCATION.

(Continued from Page 1.)

that after a time they came to represent sounds and syllables. But for a long time words were spelled out in Egyptian, and then the word was followed by a picture which showed to what class the word belonged. For instance, words relating to eating, drinking and speaking were followed by the picture of a man with his hand to his mouth.

He started with the equality sign, which, he said, might be crudely translated as existence. It may also mean inclusion in a class, or equality. A second conception was that of continuity of space or time, and this might be represented by a horizontal straight line. Instantaneous time is represented by a dot. When the equality sign, which may be called "be," is joined with the idea of instantaneous time, the dot, we have the idea being in the future, in the present, or in the past. These three ideas are made by placing the dot between the bars of the = sign, the middle position representing the present, etc. The conception of personality was an inverted V surmounted by a vertical line, in crude representation of the body and legs of a man. This sign of male personality could be changed to that of female personality by giving the man a skirt, that is, connecting the arms of the V with a horizontal line. When the figure of the man is provided with a hook, it denotes possession. The hook alone can be used with the tense sign (the dot), to represent the verb "to have." The arrow represents motion, the idea of going, etc.

Then President Maclaurin told all the men that they must be at the next Convocation, which will be held tomorrow at 2 o'clock, at the Field. This demand met with the approval of all the men present.

CATHOLIC CLUB.

(Continued from Page 1.)

government derives its power from the consent of the governed is wrong, he says, for it does not admit the necessity for some force to make a society social system do what is right.

The bond of social life, he says is religion. Present civilization would not be possible without the binding effect of Christianity. Originally this religious unity was furnished by the teachings of the Catholic Church in regard to future punishment. During the "dark ages" this force was the agent which kept the social fabric from going altogether to pieces.

He said that the lack of a belief in future punishment was one of the things which the Church has to fight when it is trying to overcome the teachings of socialism. He said that too much attention is being paid to the rights of man and too little to his obligations. We are tending to the defecation of humanity. The Catholic Church is fighting the religion of "humanitarianism," and wishes to eliminate some of the present tendency to individualism.

But besides this binding influence the Catholic Church also stands for human liberties, as is expressed in the idea of the universal brotherhood of man. He said that with this underlying principle the Church favors many of the most progressive tendencies of the times. It offers a complete scheme of social reform that might displace that offered by socialism.

Father Scanlan emphasized Mr. Johnson's talk by citing a recent case that had come to his attention. He said that Catholics should face the world prepared to explain the stand that the Church makes on the question of socialism.

Then, at a short business meeting, it was unanimously decided to have an annual dance, probably to come soon after Easter. The next meeting of the club will be December 4.

THE TECH

Morning Delivery

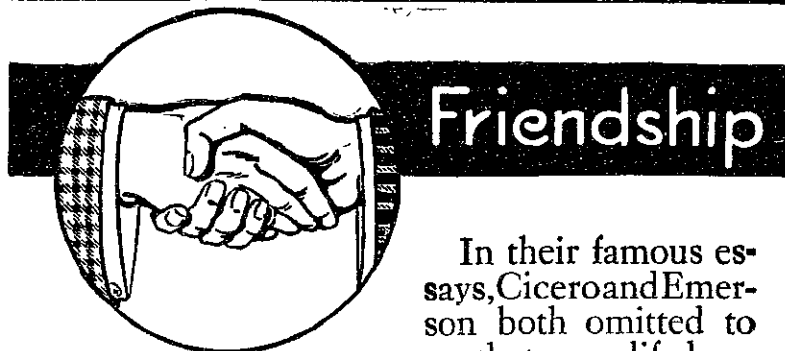
THE TECH is prepared to deliver the paper before 8 a. m. to all students rooming on the following streets - St. James Avenue, Newbury St. The Fenway, Westland Avenue, Huntington Ave., below Massachusetts Ave., St. Botolph and cross streets.

SEND A POSTAL TO CIRCULATION MANAGER

and the Service is yours. All men on these streets who have bought Subscription Books, can have this service by turning in Book to us with name and address.

Guess I'll have to see "Good Old Burke the Tailor" pretty soon.

That big brother of mine told me to be sure to call on him at 18 School St., or to see Tom Hayes at 843 Washington St., as soon as I landed in Boston, and the bunch here tell me that was good dope.



Friendship

In their famous essays, Cicero and Emerson both omitted to say that many life-long friendships have had their beginning in the College pipe.



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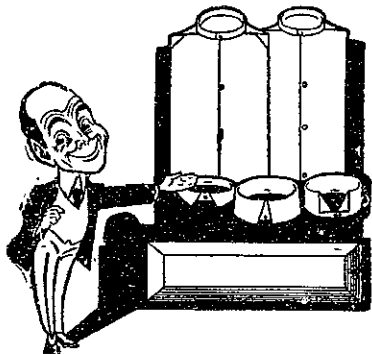
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FACULTY NOTICE.

Candidates for Graduation.

October 28, 1912.

Notes in regard to status with reference to graduation have been sent to fourth-year students. Any student who has not received a note should consult me if he expects to be a candidate for graduation in June, 1913.

A. L. MERRILL,
Secretary of the Faculty.

STUDENT VOLUNTEERS—Give your names to L. R. Talbot, T. C. A. office.

PRECISION OF MEASUREMENTS.

The lectures in Precision of Measurements for entering College Students will be held on Mondays and Fridays at 4 P. M., in Room 23, Walker Building, during the first five weeks. (8-11) H. M. GOODWIN.

FACULTY NOTICE.

Third Year—Elements of Electrical Engineering—Change of Recitation Hour.

Section F will change from Tuesday, at 10 o'clock, to Wednesday, at 9, to recite in Room 20, Engineering B.

WALTER HUMPHREYS,
FACULTY NOTICE.

GYM CLASSES begin Monday, November 11, as noted on the Freshman tabular view. All men must be in Gym suits at the first exercise. No Cuts allowed during year.

A sporting goods representative will be at the Gym from 1.30 to 4 o'clock on Wednesday.

F. M. KANALY,
Gym Instructor.

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LOST—At Tech Field, an open-faced gold watch with H. R. B. on back. Reward if returned to 18 Exeter street. (28-2t p)

LOST—A 10-inch Slide Rule, in the Union, Monday, Oct. 28. 1.30 to 2 P. M. Return to Morrill, '14, for liberal reward. (28-2t p)

FOUND—Slide rule and case, Pipe case, Raincoat, Text-books, Umbrella, Bunch of keys, 2 Stick pins, 2 Note Books, 3 Watch Fobs, Fountain Pen, Watch, 2 pairs of Rosary Beads, Fraternity Pin. Apply at Bursar's office.

Dancing Parties every Wednesday and Saturday evenings. Lunding Gymnasium, 44 St. Botolph street, Boston. Refined patronage. (Tues-Fri)

FACULTY NOTICE.

GYM CLASSES begin Monday, November 11, as noted on Freshman tabular view. All men must be in Gym suits at the first exercise. No Cuts allowed during year.

A sporting goods representative will be at the Gym from 1.30 to 4 o'clock on Wednesday.

F. M. KANALY,
Gym Instructor.

FACULTY NOTICE.

Attention is called to the following extract from the Rules of the Faculty: "All marks of D incurred in the second term must be removed not later than the end of the following November. In case a mark of D is not removed at this time, the student shall be required to discontinue any dependent subjects which he is taking, and can obtain a clear record only by repeating the subject in which the D was given."

A. L. MERRILL,
Secretary of the Faculty.

THE TECHNOLOGY SOUTHERN CLUB will hold a dance at the Hotel Carlton, Boylston and Hemenway streets, on Saturday evening, November 9th, at 8 o'clock. (32 & 33)

All Goods Required by
Students at
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NEW CONTINUALLY'

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The South Armory is now fully equipped with up-to-date Fire Control and Range Finding equipment and guns will be installed the coming Winter. The work is technical and should be interesting to College men. Ten days tour of duty at the harbor forts.

Regular drills at the Armory Monday nights. Come and see us.

Albert L. Kendall (M. I. T. '94)
Capt. Coast Artillery Corps M. V. M.
Commanding Second Company

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'ROUND THE CORNER'

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THE TECH

FIELD DAY EXTRA

VOL. XXXII. SPECIAL ISSUE

BOSTON, MASS., FRIDAY, NOVEMBER 8, 1912

PRICE FIVE CENTS

BOTH RELAY TEAMS IN FINE TRIM FOR RACE

Heavy Rain of Last Night Will Cause Slow Time—Close Race Expected.

RELAY.

Record of Past Field Days.

1901—Won by Freshmen; Time 7 min., 9 4-5 secs.
1902—Won by Sophomores; Time 6 min., 2 1-5 secs.
1903—Won by Sophomores; Time 7 min.
1904—Dead heat; Time 5 min., 9 2-5 secs.
1905—Won by Sophomores; Time 5 min., 48 secs.
1906—Won by Sophomores; Time 5 min., 9 2-5 secs.
1907—Won by Sophomores; Time 5 min.
1908—Won by Sophomores; Time 5 min., 4-5 secs.
1909—Won by Sophomores; Time 5 min., 4 2-5 secs.
1910—Won by Sophomores; Time 5 min., 1 2-5 secs.
1911—Won by Sophomores; Time 4 min., 57 2-5 secs.

RELAY.

1916.	1915.
W. L. Tapley.....	T. J. Barry
E. W. Loomis.....	W. B. Spencer
A. Page.....	L. Clark
E. J. Goldstein.....	W. S. Thomas
D. F. Callahan.....	E. E. Alt
D. Comiskey.....	G. C. Lawrence
K. Dean.....	E. J. Kingsbury
A. C. Lieber, Mgr.....	D. B. Baker
G. D. Kittredge.....	J. Homan
T. K. Hine.....	H. B. Smith
C. S. Reed.....	E. A. Teeson
W. Adams, Capt.....	A. B. Curtis, Capt.
Substitutes.	
C. T. Guething.....	E. T. McBride
O. H. Hayes.....	B. Lapp

1915 Relay Team.

When the Sophomore runners line-up for the start of the relay race they will represent a fast bunch of sprinters, the cream of the class. Several men who ran last year were not fast enough to make the team this year, which fact shows that better times will be made. The men have not been reporting very regularly for practice but a few have kept faithfully at work and the best showing is looked for among these men.

The times made by the men are very good, but the flag passing is of inferior quality. This feature of the race last year spoiled the chances of this same team, and although they have a faster bunch of men than the Freshmen, the latter will still have a show for this reason. Curtis, the captain, is the fastest man on the squad and is a good man to run last. Barry and Spencer have shown up strong in the trials and are counted on to run in quick time.

No practice races have been held by either team, but from a comparison of times the Sophomores seem to be a faster aggregation. Barry, Baker, Curtis, Kingsbury, Smith and Spencer were on last year's team, and have formed a nucleus around which a number of fast sprinters have been gathered. These men form the backbone.

(Continued on Page 3.)

SOPHOMORES AND FRESHMEN BATTLE FOR SUPREMACY THIS AFTERNOON

Second Year Men Favorites in Football—Also Expected To Win In Relay—Tug of War In Doubt—Close Contest Expected In all Three.

LINEUP.

1916.	1915.
P. H. DUFF.....	C. W. HOWLETT
A. KRIGGER.....	J. S. HOWKINS, H. R. CROWELL
E. L. KAULA.....	F. E. MURPHY
H. M. WARREN.....	K. K. BOYNTON
L. T. HILL.....	L. F. QUIRK
T. C. JEWETT.....	E. E. PROCTOR, HELSETH
A. E. MOODY.....	R. L. FLETCHER
J. J. MURPHY.....	F. P. SCULLY
C. H. LEEPER.....	J. H. O'BRIEN
C. L. FOOTE.....	C. L. MORSE
W. B. MAIER, Captain.....	WHITING
Substitutes.	
G. H. PETIT.....	C. W. METZ
H. G. MANN.....	J. N. DALTON
R. M. STOWELL.....	F. F. FULTON
G. ROPER, JR.....	
C. E. RANDOLPH.....	



FIELD DAY CUP

1915 Football,

Of the three contests this afternoon, the football game will assume the greatest interest among the spectators, as it is to decide the gridiron supremacy between the two classes and will probably prove the most hotly-contested event of the day. Both teams are primed for the fray and await the referee's whistle. In past years the Sophomores have won one more game than the Freshmen and go into the game today slightly the favorite.

The Sophomores have an old experienced backfield that is heavier than the Freshmen's while the latter, taken as a whole, is faster. The 1916 line is a little heavier than 1915's, but gets into the scrimmage quicker. In the comparison of games played this season the two teams are about equal. The second-year team has won three out of four games played and the

first-year eleven has been victorious in two games out of three.

The men on the Sophomore squad have been reporting fairly regularly at the oval for practice, and with five weeks of hard grind have rounded into championship form. Although only a few men reported at first most of them have been out every day and a smooth running aggregation has resulted. In the backfield the Sophomores have a heavy trio, Scully, O'Brien and Morse, that should rip big holes in the Freshman line. All these men played on last year's team and proved consistent ground gainers.

The Sophs have in Scully as a leader at quarterback a player who has no equal on either team. He shows excellent head work in running the eleven, and is a speedy runner with the ball. He contributed in no small measure to the success of his team last year by peeling off yard after yard around the ends and promises to be a deciding

(Continued on Page 3.)

TUG-OF-WAR TEAMS EAGERLY AWAIT PULLS

Sophs Have Advantage in Weig
Sophomores Have Advantage in
Weights—Slinnery Ground
Makes Issue Doubtful.

TUG OF WAR.

Record of Past Field Days.

1901—Won by Sophomores; Time 1 min., 50 secs.
1902—Won by Freshmen; Time 1 min., 6 secs.
1903—Won by Sophomores; Time 21 secs.
1904—Won by Freshmen; Time 1 min., 8 3-5 secs.
1905—Won by Sophomores; Time 45 secs.
1906—Won by Freshmen; Time 2 min., 9 secs.
1907—Won by Sophomores; Time 1 min., 59 secs.
1908—Won by Freshmen; Time 57 3-5 secs.
1909—Won by Freshmen; Time 2 min., 49 secs.
1910—Won by Sophomores; Time 2 min., 44 secs.
1911—Won by Freshmen; Time 59 secs.

1916.

1915.	
T. S. Curtis.....	Walter M. Africa
R. E. Smith.....	G. N. Althouse
H. F. Dewson.....	F. F. Buttner
H. A. Pieper.....	T. G. Brown
A. J. Krachmainikoff.....	A. V. Colman
H. L. Bickford, Mgr.....	C. L. Hall
L. R. G. Bousquet.....	W. R. Hanchett
J. D. Sanford.....	R. C. Heffer
N. McRae.....	V. A. Jasionowski
W. E. Thrasher.....	P. Keller
H. H. Porter.....	J. M. Livermore
R. C. Reese.....	H. L. Marion
C. J. Spear.....	P. Masucci
K. M. Sully, Capt.....	I. B. McDaniel
H. C. Fuller.....	E. H. Newman
N. Warshaw.....	A. W. Parker
R. A. Crosby.....	D. W. Perin
M. Aronson.....	M. B. Pinkham
B. W. Townsend.....	St. T. Piza
H. W. Whiting.....	R. N. Rennie
L. Besly.....	C. N. Runels
A. M. Lovenburg.....	H. P. Sabin
R. A. Fletcher.....	C. M. Wareham
G. M. Lovejoy.....	W. E. Wentworth
H. W. Ellis.....	P. McC. Werlich, Capt.

Substitutes.

F. S. Kenny.....	E. J. Casselman
H. T. Evans.....	S. R. Dodd
G. P. Allen.....	C. Counter. H. W. Lamson
H. A. Affel.....	Coach.....H. M. Carlson
Manager.....	C. A. Blodgett

1915 Tug-of-War.

This afternoon the Sophomore Tug-of-War team will trot out to their place on the rope with a full appreciation of what is expected of them by their classmates. Knowing that last year this contest decided Field Day they have prepared again to save the day in case the other teams split even in the other events. The squad is heavy, averaging nearly 180 pounds, and the strength tests show that the men are strong. They have had five weeks of hard drill, first pulling as a unit on the famous steel post in the Gym yard and then later as two teams pulling against each other.

Coach Carlson, '13, was a member

(Continued to Page 2.)

THE TECH

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Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

FRIDAY, NOVEMBER 8, 1912

Today, of all days, let every Tech man show, in the fullest degree, every ounce of real Technology spirit that is pent up in him. None have to cultivate this spirit, for that has been done unconsciously during the time that we have moved in the dear old Institute halls. All that we have to do is to let it come out with its fullest intensity and let go of all the restraining thoughts that keep us from expressing the great and enduring love for Technology that is so deep rooted in every one of us.

We should give our unbounded support to the athletes that are offering us this opportunity for expressing ourselves with freedom, not for this fact alone, however, but for the fact that every man of them is a Tech man. These men have worked hard during the last few weeks, and the few that have been chosen for the teams will just be given a little better chance than the others to show his feeling more actively.

Let them be ever mindful of their loyalty to the class, whether it be in success or defeat. It makes no difference what the outcome may be. Whichever class proves itself less strong must remember that to lose is as honorable as to win.

"Not the quarry, but the chase,
Not the laurel, but the race,
Not the hazard, but the play,
Make me, Lord, enjoy away."

This has been called a day for the underclassmen, but there is no reason why it cannot be a day for all Technology on which to express our loyalty as undergraduate college men. Let us then go out to the Field this afternoon one hundred per cent. strong and all bustling with the true enthusiasm of sincere and happy Tech men.

SOPHOMORE DINNER.

Hope to Celebrate Victory Tonight in Union at Six O'clock.

Tonight the Sophomores either celebrate a double victory or console themselves on their defeat at their class dinner in the Union at 6 o'clock. The committee have made arrangements to have the dinner served quickly and will have only short speeches. President Werlich has secured Dean Burton and Major Cole to address the fellows, and two excellent speeches are expected in the limited time allowed.

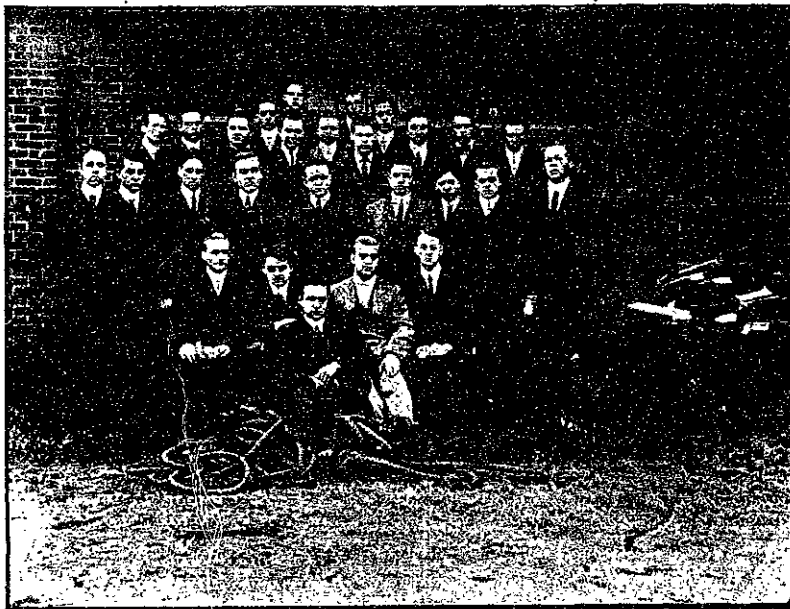
Immediately after the dinner at 7.30 the class will form in a body outside the Union and march first to Rogers' steps for some cheering. Then they will parade straight to the theatre and liven things up with some more noise and singing. All those who haven't purchased tickets for the dinner can do so at the Field this afternoon from any of the class officers, the members of the dinner committee or several members of the class.

TUG-OF-WAR TEAMS.

(Continued from Page 1.)

of his class tug-of-war teams and coached this team last year. His experience with men for those teams has given the Sophs a valuable asset toward victory. He has good judgment of character and has developed a squad of strong powerful men, strong not only in hardened muscles, but in will power and enthusiasm. The team has chosen for itself a popular counter who has proved his worth

site to prevent the Sophomores from having their numerals engraved on the coveted cup twice, the Freshman Tug-of-War will enter its first pull this afternoon to strive for victory. Knowing that they may be called upon to win Field Day for their classmates, and that the Freshmen have won the majority of pulls in former Field Days, they have practised faithfully for over five weeks. This practise has been extremely severe. The men have been drilled thoroughly in pulling



FRESHMAN TUG-OF-WAR.

in practise. During the last practises these men have put the team through only short pulls and starts so that they will be able to get the all-important "drop" over the Freshman on Field Day.

Another valuable asset to the squad is the number of old men on the team. More than half of this year squad is composed of men that have had experience in pulling against another team. This value cannot be underestimated because it gives untold steadiness and balance. The men who appeared on last year's victorious

with form against the steel post in the Gym yard. Coach Affel has watched his charges with care and they have had individual attention. Later when the total number out averaged forty-five they divided into two sections and pulled against each other. Knowing that they were slightly lighter than the Sophomores they put their energies into team work and form.

Coach Affel, '14, who has tuned the Freshmen to their highest efficiency, was a member of the two class teams and was captain last year. He has brought out a squad without partiality,



SOPHOMORE TUG-OF-WAR.

team are W. M. Africa, F. F. Buttner, A. F. Coleman, W. R. Hanchett, R. E. Hefler, V. A. Jasionowski, J. M. Livermore, H. L. Marion, E. H. Newman, A. W. Parker, D. W. Perin, M. B. Pinkham, R. M. Rennie, H. P. Sabin, P. McWerlich (Captain), C. A. Blodgett.

developing his team from a percentage point of view. Due consideration was and form. Thus he has a team that represents the best that the candidates afforded, unaffected by prejudice.

The entire team will be dressed in dark trousers and light gray jersey



FRESHMAN TUG-OF-WAR IN ACTION

1916 Tug-of-War. Thoroughly practised in counting and filled with enthusiasm and a de-

rope soon after two-thirty. given to attendance, weight, strength when they run to their places on the

FIELD DAY NOW

WELL ESTABLISHED

Twelve Years Since its advent—Means Much to Technology.

Field Day, which we celebrate this afternoon with so much enthusiasm, originated from the cane rush found in most of the colleges of the present day. Twelve years ago the annual cane spree was held and more than the usual vim was spent upon it, with the result that this rush was the roughest of all that had preceded it. The class of 1903 won, but the hard-earned victory was saddened by the death of one of the participants. The pent-up enthusiasm gave way to grief and later the entering class, in cooperation with the Advisory Council on Athletics, took steps to abolish this brutal form of exhibiting the culmination of class rivalry.

Field Day was the result of the agitation. The Faculty assisted the development of the great idea by unanimously voting a half-holiday for the better enjoyment of the sports. Football, tug-of-war, and relay were the sports assigned to take place on the first holiday. The object of having such a series of widely different athletic events was to have the greatest number possible of students participating each year.

In order to further this idea of getting a represented element from each class the tug-of-war was adopted after the form already existing in Amherst. Here the losing team was pulled by the victors into water. Of course this was impossible at the Tech Field. So it was decided to have the teams consist of twenty-five men from each class. Soon after the opening of the college year each class begins practising every day so as to be fit at the final day.

The relay race was also changed from its usual form of four men on a team to one having twelve men each, one running 220 yards.

It was thought that this would give the entering class a greater chance to win this event against the Sophomores, for the latter in a four-man team might have four varsity track men. Under these conditions it would be well nigh impossible for the Freshmen to win. As a matter of fact, the Freshmen have won this event only once, in the first Field Day.

The battle on the football gridiron was the only one that was changed in no way. This event was inserted to give still greater number of men a chance to make Field Day famous. The contest between the two classes over the pigskin has always been the prime event of the afternoon.

The points to be counted were settled as four for the winning class football team, three for the relay team and two for the winning tug-of-war team. In this way it is possible for the class winning two of the events to carry off the honors of the day. Many of the contests have been decided by the winning of the tug-of-war. Thus it is that the event that otherwise would receive but little attention assumes the greatest importance.

Ever since the first Field Day in 1901 the idea has received ever increasing attention not only with the two classes concerned, but also with the entire student body. Interest and enthusiasm approaches their height of the morning of the important occasion and the afternoon settles the dispute which is never questioned.

A cup, donated by Samuel Cabot, is engraved each year with the numerals of the winning class. Up to date only two classes have had the honor of having their numerals engraved twice on the coveted cup, 1905 and 1912. This cup is on exhibition in the Union the year round, and is used as a loving cup every year when the participants of Field Day gather in the Union for a banquet. It is passed around from hand to hand, never being allowed to touch the table till every man has had his taste.

FOOTBALL TEAMS.

(Continued from Page 1,
factor in today's game. His dodging in a broken field and quickness in throwing off tacklers makes him a good ground gainer. Johnny O'Brien at left halfback, the winner of last year's game, is a heavy player and knows the game from A to Z. Once started with the ball he is a hard man to stop and shows up strong in hitting the line. He is a heady player and keeps his eye on the ball at all times. Morse at right half is another man who can be counted on for consistent gains. He will be called on to do the brunt of the punting in today's game and should show up strong in this line. Whiting, a new man this year from Wesleyan, where he played on the Freshman eleven, will play at fullback. He has been showing up strong in practise, and by hard work earned a position in the speedy back-field.

In the line, Boynton at center will prove strong in the interference. He has played this position two years with the team, and his accurate passing of the ball will be of great help to the backs. Murphy and Quirk, who will start the game in the guard positions, will provide an effective barrier against line bucking. Murphy is an old man and Quirk, a Mechanic Arts man, is playing for the first time on the team. The men for tackles will be picked from four players, Howkins, Crowell, Proctor and Helseth. Howkins is a sure tackler and a strong, aggressive player. Crowell, a guard on last year's squad, will be a strong help for the interference and should

The Freshmen have played some of the best high and preparatory school teams in this vicinity, usually coming off with a win. They beat Newton High after a hard-fought battle by a score of 5 to 0, their victory booting out by Murphy, the little quarterback, at a crucial moment in the game. They defeated Rock Ridge easily by a score of 14 to 0, never in danger of being scored on themselves while they approached their opponent's goal at will. After having three days of practise they took on the Somerville High and were beaten by a score of 13 to 3. Although it is hardly fair to compare a college class team with a high school team, the showing that the Freshmen made against one of the best high school teams in this part of the State which was in the best of condition, shows them to have few, if any, equals among high schools in this vicinity.

The team is unusually fortunate in having no especially weak places in it, the playing ability of the men averaging high. There are several stars of no small magnitude among the players. Maier at fullback is a line plunger of the most effective kind seldom ever failing to carry the ball for substantial gains. He plays a hard game from start to finish, getting into every play and always is found near the ball. Maier was selected as captain of the team after last Monday's practise. Leeper does the most of the kicking for the team and can always be depended upon to do some good punting at the same time doing his share of carrying the ball. Foote at right halfback is a fast man and one to be feared on the end runs. He



FRESHMAN FOOTBALL TEAM.

spoil a lot of line plays judging from his ability to follow the ball. Proctor, who played this position last year, hits the line hard, while Helseth with his weight will be effective in stopping line plunging. The end positions will be well looked out for by Fletcher and Howlett. The former injured his collarbone last year and had to leave the game. Both men are quick at getting down under punts and can take care of all efforts to circle the ends.

1916 Football.

In spite of the fact that the Freshmen eleven has not received the best of support from the class it has made a good showing this fall and will come on the field today as the representative of the best football material in the class. Coach Cuddy has chosen the men with care and given them hard, consistent practice, with the result that he has turned out a team with which he has great hopes of taking the measure of the Sophs. The training has been thorough and the playing of the team is characteristic only of an eleven which is in the best of condition.

has only reported for duty lately, but has proven himself a valuable addition to the team. He is a former Newton High and Stone School player, and is at home in any department of the game. Murphy is a heady little quarterback with the ability to run the team smoothly and get the best there is out of the men. He is a man who will prove dangerous to the chances of the Sophs. Duff and Moody are a couple of fine ends who can get down the field rapidly, drive in the plays to the centre of the line most effectively and accept a forward pass with the best of them. The rest of the line, while composed of fast men, is of the stonewall type and is a terror to teams who resort to line plunging tactics. Warren is a tower of strength at centre, his two hundred and ten pounds of brawn forming a most effective snag for the line buckers. He is supported ably on either side by Kaula and Hill as guards and Jewett and Kregger as tackles. These men are able to get their man every time and the tackles are a couple of ground gainers on the tackle round plays. The team has a number of capable substitutes to reinforce their regulars and the team will be little altered by an injury.

RELAY TEAMS.

(Continued from Page 1, Col. 1.)
bone of the team and the brunt of the grind will fall upon them. Teeson was a member of the Freshman track team as a high jumper, and it is only this year that he has developed into a sprinter. Thomas has made quite a record as a hurdler in some of the track meets held last year, and is counted on to make a strong showing today. Alt, Baker and Homan, all from last year's class track team, have been showing up strong at practice and are expected to make fast times, especially Baker.

As the times made by the men in the trials were pretty close, Lawrence, Smith and Kingsbury are expected to

team is out to break the record of the Sophomores. They seem to be better in passing than the other team, and this is an all-important factor in winning. The men themselves, perhaps, are not so fast, man for man, as the Sophomores, but they rely on better passing to win.

The team is strengthened by three men that have had former experience in track. W. Adams, K. Dean and A. C. Lieber have all run before on high school teams. Adams ran for three years on the Newton High School track team, and last year was captain of the team. He won the hundred yard dash in 10 2-5 seconds in the Y. M. C. A. Championships two years ago. Lieber was a member of



FRESHMAN RELAY TEAM.

duplicate the performance of the other men. If the Sophomores don't fall down in the flag, which seems to be their only weak point, the chances are that they will have no trouble in crossing the tape ahead of their rivals and carry out the traditions of the past seven years.

1916 Relay Team.

After several weeks of continuous practice a Freshman Relay Team has been chosen, fast, efficient in pass-

the Mechanics' Arts High School relay team. He has also ran with the Boston Y. M. C. A. teams. Dean prepared at the Brookline School and made the track team.

Unfortunately the rest of the relay squad has had no experience. Nevertheless the majority of them are fast and ought to show up well against the Sophomores. Comiskey and Hine have done especially well in practice and should hold their own.



SOPHOMORE RELAY TEAM.

and composed of men that have had previous experience. An average of thirty men have reported daily to the field ever since the first week in October, and Coach Kanaly has given the men careful and individual attention. In all the past Field Days the Class of 1905 were the only Freshmen to win a relay race. This year's

The last days of practice have been entirely devoted to starts and flag passing, with occasional sprints around the track. Though lacking in experience the Freshman Relay Team should run a hard race and push the Sophs to the limit, though the final issue is scarcely in doubt.

GREETINGS

For the second time this year we greet you — HOW—DO—YOU — DO. Remember about five weeks ago I invited you old men to come around again and you Freshman to come in? Say boys, they did—every single man and the Freshman—well, give them credit for knowing a good thing when they see it

THE REASON IS—BECAUSE

I have the only line of STETSON HATS in Back Bay. Besides my caps and Jerry Hats are the classiest Stuff on the street.

TAKE A LOOK

around the field and you will recognize them

WAIT A MINUTE

that's not all. I still sell PHENIX HOSE. Silk Lisle; six pair — six months. Also the new heavy weight silk hose for Fall and Winter wear, \$2.00 per box.

NOW IS YOUR CHANCE

to look around the grand stand and bleachers and see some of our knit scarfs and nifty neckties. Notice all of those new ideas? Take a bet — they come from my shop. And heres a tip to you fraternity men — I have just received a line of ties made up in the right colors for every fraternity at the Stute.

THE COPLEY-PLAZA HABERDASHER

16 Huntington Avenue