

## MANY SPEAKERS ARE TO ADDRESS FIRST CREW GATHERING

Mass Meeting At Five O'clock Tomorrow in 5-330 For Everyone

## VARSITY OUT YESTERDAY

New Line-up Makes Excellent Showing Under Coach Haines' Guidance

Tomorrow afternoon the biggest cavade of crew enthusiasts ever assembled will gather in room 5-330 for the annual crew mass meeting. The affair is scheduled to start at 5 o'clock, and although there are to be numerous interesting talks from prominent men, it has been planned to conclude the meeting within a half an hour.

Dave Sutter, who was elected captain last Spring at Philadelphia, will officiate at the gathering, and also give a short talk. Dr. A. W. Rowe '01 will give a brief outline of the fall season, and Bill Haines will introduce the assistant coaches after saying a few words himself. To those who were rowing last year, Gus Frisbie needs no introduction. He will say something about management and the hopes of the coming Spring season.

An attempt has been made to have the Advisory Committee on the boat house there. This committee is composed of Dr. Rowe, Bursar Ford, J. L. Batchelder '90, and ex-coach Dellenbaugh. Last year Bill was given very valuable assistance from Professor Dellenbaugh, but on account of doing research work for the Institute this year, he will be unable to assist with the coaching.

In order that the meeting shall have nothing lacking in pep, the Calumet Club will be there to lead the cheers. Professor Dellenbaugh will conclude the talks and a snappy send off will be given all the crews.

(Continued on Page 4)

## FRESHMEN ATTEND WELCOME MEETING

New Men Urged To Cultivate Friendship of Their Instructors

In an effort to make the new men entering the Institute feel as much at home as possible in their new surroundings and to impress upon the freshmen in particular the responsibilities that descend on them upon their entering Technology, a mass meeting was held Monday at 1 in room 10-250 for all men registering here for the first time. The speakers at the meeting were President S. W. Stratton, Professor D. C. Jackson, Dean H. P. Talbot '85, and Dr. A. W. Rowe '01.

After opening the meeting by giving the formal address of welcome, President Stratton continued, stressing the fact that the students coming to the Institute from high schools and prep schools were no longer preparatory school boys but men in the full sense of the word. He stated that the incoming students will be looked upon as men, treated as such, and expected to live up to these expectations.

Throughout the addresses emphasis was laid on the relations between the men and their instructors. The new men were advised to cultivate the friendship of these men who do so much to prepare their minds and bodies

(Continued on Page 5)

## SON BORN MONDAY TO MRS. O. B. DENISON

Orville B. Denison '11, Executive Secretary of the Alumni Association of Technology, is the father of a 7½ pound son, born Monday afternoon. The boy will be named George Wheaton Denison. Mr. Denison, as Executive Secretary, spends his time in travelling about among the Technology Clubs all over the country, assisting in organizing new clubs and reviving interest in the old ones. Mrs. Denison is the daughter of Mr. and Mrs. G. W. Dixon of Worcester, and was before her marriage Sara Allyne Dixon. The Denisons' home is in Lexington, Massachusetts.

## TECH SHOW SENDS OUT CALL FOR PLAY BOOKS

None Will Be Accepted After Monday, October 27

Tech Show books are due this year on or before Monday, October 27. The management especially emphasizes the fact that all books must be in by the time specified, and no late books will be given any consideration. To date, five books have been turned in.

Rather stricter rules than usual have been made this year concerning the nature of the show. It has been decided that this year's show must have a setting in the United States. While a ballet is not forbidden, if there is one it must be connected in some way with the plot.

Books will be read as soon as possible, and the successful author will be announced as soon after October 27 as possible. Tech Show is to hold a smoker about that time, and the announcement may be made at this meeting.

## INCREASE CERTAIN IN REGISTRATION

Total Already 100 Better Than Corresponding Figures For Last Year

Despite frequently expressed fears to the contrary, registration is increasing, and not decreasing. Registration figures today stand at about 2900, which is greater than last year's enrollment at the same time by almost 100, and is about equal to that of 1922.

Before school opened the total registration was variously estimated at from 2800 down as low as 2500. The total registration for the term will not be reached for two or three weeks yet; but already registration has exceeded the most optimistic expectations.

Various reasons have been advanced for the increase. The one which appears to gain most favor is that graduates of engineering colleges are extending their activities, and that in many lines of endeavor besides pure engineering work employers are giving the preference to graduates of technical schools.

Engineer's Field Enlarged  
One indication that this is so is found in the increase in registration in the course in Engineering Administration. Men who desire the advantages of a technical education but who do not intend to engage in engineering work are becoming more and more numerous; and in the Institute a large proportion of such students enter Course XV.

The registration figures for the past few years have been very erratic. During the war years registration first dropped, as students enlisted, and then began to rise as the need for technically-trained men grew. This continued during the early reconstruction period until the business depression about four years ago. Then, in the face of an increasing registration in liberal colleges, Technology's registration began to drop, as fewer men chose to enter the engineering professions. And now, when graduates of engineering schools are no longer so limited in seeking a field for a career, registration again begins to increase. This time it looks as if the increase will continue.

## FRESHMAN GRAY BOOK TO BE OUT FIELD DAY

Edition Limited to 350 Copies—Price About Two Dollars

This year's Freshman Gray Book will be out on Field Day, early enough to give the freshmen some idea of their classmates before the annual elections. The volume will be smaller than it was last year, and will be bound in cloth, instead of paper.

The book will contain 84 pages, and will include a group picture of each of the freshman sections, 22 in all. Students will be listed in alphabetic order, with the high school or prep school record of each. Athletics, activities, and Field Day will each be discussed. In addition, there will be several pages of feature articles.

Freshmen will do practically all the work of writing and publishing the volume, under the supervision of two or three men from the Technique staff. The edition will be limited to 350 copies. The price of the book will be about two dollars, one of the reasons for the high cost being that there will be no advertisements.

## REPORT ON TECH NIGHT WILL BE GIVEN TOMORROW

Doubtful If Four Cornered Tug-of-War Will Be Held This Year

## RUMOR BEAVER SECRETED

Reports will be given by the chairmen of the Field Day, All-Technology Smoker, and Tech Night Committees, at the first meeting of the Institute Committee this term to be held tomorrow in the Faculty and Alumni room, Walker, at 5 o'clock.

G. L. Bateman '25, president of the Senior Class declared yesterday that as yet he had no plan to suggest as a substitute for Tech Night, which was abolished last year. He declared it best to await the report of the Tech Night Committee, but he thought it doubtful if the four-sided tug-of-war which took place after the theater last Field Day Night, would be repeated this year.

The tug-of-war was won by the Class of 1924, then the Senior Class, who received the Beaver as trophy of the victory. The Beaver, a concrete replica of the traditional Technology mascot, was originated in an attempt to start a school tradition, by stimulating class rivalry. Last June the Class of 1925 finally secured possession of the trophy after a great deal of debating as to its real value as a tradition, because of its artificial origin.

At the time of the Technique Rush last Junior Week, an object was dropped from an airplane into the Charles River and the Junior Class announced that the object was the Beaver and that they had taken this means of destroying an artificial and unoriginal tradition.

A rumor has been circulating that the object was not, in reality, the Beaver, and that the Class of 1925 has it secreted, until an appropriate reappearance is staged. The Junior Class President, however, has reaffirmed his previous statement: that the Beaver is really at the bottom of the Charles.

## WILL ELECT RADIO SOCIETY OFFICERS

Special Meeting of Old Members Called for Two O'clock Saturday

In order to elect officers for this school year, there will be a special meeting of all the old members of the M. I. T. Radio Society in room 10-200 Saturday, October 11, at 2 o'clock. New men wishing to become members of the society may do so by singing up at the radio society in the main lobby.

As usual after summer vacation, there is a large amount of work to be done at the society's station, INM, to put in the best possible condition for handling traffic and carrying on experiments during the school year. Accordingly the society would be glad of the help of all members who would be interested in assisting in the necessary repairing and testing.

Have Much Special Apparatus  
The activities of the radio society include, in addition to the operation of radio INM, meetings at which speakers of not discuss current radio topics; code classes, and classes in the theory and practice of radio. These classes make it possible for members of the society to prepare themselves to obtain a commercial operator's license, which is necessary to operate at the society's station, though operators holding only amateur licenses may work the station as assistants.

In addition to the transmitting and receiving equipment at the society's station, which has already made a reputation for itself, INM is equipped with power outlets, special aeriols, work tables, and so on, which make it possible and convenient to conduct a wide range of experiments in radio communication. From time to time throughout the year the society conducts trips to places of interest to radio amateurs, such as radio factories, and large stations. Past trips have included such places as the Navy Yard station, the great Radio Corporation transatlantic station WSO at Marion, Mass., and the Westinghouse broadcasting station WBZ, at Springfield.

## MASS MEETING TODAY WILL OPEN SOPHOMORE—FRESHMAN STRUGGLE FOR SUPREMACY

## LA FOLLETTE CLUB TO MEET TOMORROW

The president of the Harvard La Follette Club will outline the movement in the colleges of Boston and vicinity, at the organization meeting to be held Thursday in the Walker Memorial Committee room. Permission has been granted by the Dean to organize the La Follette Club. E. E. Piepho '25 will act as chairman until a permanent chairman is elected.

The meetings will be open to everyone, and those who would like to help are asked to be present at the meeting. No membership fee will be required, but contributions will be received for the growing needs of the campaign.

## START TO PREPARE FOR 1924 SMOKER

Several New Features Promised At First Get-together Of School Year

Technology undergraduates will get together on Friday, October 17 when the annual All Technology Smoker is held in Walker Memorial. Everyone is invited and urged to go and the committee in charge of the affair emphasizes the fact that everything is free.

According to G. H. Stark '25, the chairman of the All Technology Smoker Committee, the smoker can take the place formerly occupied by Tech Night in developing Technology spirit. Because it comes early in the school year it also gives many of the freshmen their first opportunity to become acquainted with the Institute and its activities. Instead of each activity having its own representative speaker as has been done in previous years, a single speaker will act as representative of all the activities and briefly tell of the advantages to be derived from each.

Following the speeches there will be entertainment in both the Main Hall and gymnasium of Walker. While the nature of this entertainment has not been announced, the committee claim that it will surpass that of any previous year and will probably include an exhibition of jiu jitsu. A departure from the customary in the commissary department is also promised. "Only a large crowd is necessary to make the affair a success," asserts W. F. McCornack '26 of the committee, "and remember it is all free."

## TECH ORCHESTRA NOW LED BY T. C. PATTON '25

Opens Winter Season With New Musical Repertoire

The Tech Society Orchestra opened its winter season last Monday with the strains of "Unfortunate Blues" under the leadership of T. C. Patton '25. As has been customary for the past two years they will play during the two dinner hours from twelve to two. Charles Roach, who conducted for the last two years is not at the Institute this year so the leadership was turned over to Patton who plays the piano. Most of the old men are back and new music has been acquired.

Most of the former players were at the Old Orchard House during the summer and played for the dances there every evening.

P. C. Davidon '25, who made such a hit in last year's musical clubs' show is a member and, perhaps, the most versatile of all. During the course of a single piece he will play a banjo, trumpet and end up with a selection on his trained saw. Harry Newman '25, who was a violinist in the Tech Show Orchestra plays the violin and H. B. Smith '25 the clarinet. Roland Stowers is another performer on the trumpet. George Francis, a freshman, is the only new man in the orchestra. He plays both the alto and soprano saxophone.

## PRES. STRATTON AND DR. ROWE TO ADDRESS MEETING

Purpose of Rally Is to Explain Plans for Coming Battle Between Classes

G. L. Bateman '25, President of the Senior Class, will preside at the first joint freshman and Sophomore Field Day rally, to be held in room 10-250 at one o'clock today. President S. W. Stratton and Dr. A. W. Rowe '01 will be the principal speakers, and R. W. Head '25, President of the Junior Class, and P. I. Cole '27, President of the Sophomore Class, will also speak. In addition the various team managers will each say a few words. All speeches will be short.

Today's meeting is for the purpose of explaining the plans for the coming inter-class struggle, and to arouse the interest of a sufficient number of men from each class to make up the teams. This rally will mark the official beginning of the race for supremacy between the freshman and Sophomore classes.

Field Day is the day set apart each year when the differences between the Sophomores and freshmen may be settled by friendly athletic competition. It takes the place which in other colleges is occupied by "hazing," a peculiar institution whereby the Sophomore class inflicts upon freshmen a revenge for the treatment which it received at the hands of the next higher class the previous year.

Want Big Representation  
There are four big athletic events comprising the principal program of Field Day: a crew race, a tug-of-war, a relay race, and a football game. In addition is the usual struggle for class banners and mascots. The principal attraction is always the football game.

Managers of the teams will bend their efforts this afternoon towards bringing out a big representation, in order that there will be plenty to choose from in making up the teams. The freshmen will be urged not to fear the superior organization of their rivals, and the Sophomores will be reminded that if they fail to win this year they lose their last opportunity to have their names engraved on the Field Day Cup, as last year they were defeated by the Class of 1926. There will be other meetings called later.

## T.C.A. BOOK EXCHANGE HAS DEPOSITED \$1000

Approximately \$1000 has been deposited by the T. C. A. during the past week for books which have been sold to students. This amount does not include any that was given to students for their books before the money was deposited. This amount corresponds approximately to that of a year ago for the opening days. The Book Exchange is in charge of W. C. Luce '26 and under the new scheme of reorganization of the T. C. A. the Book Exchange is a division of the Student Service Department of which J. A. Hoxie '25 is the director.

## CALENDAR

Wednesday, October 8  
1:00—Sophomore freshman Mass Meeting, room 10-250.  
5:00—Voo Doo Candidates Meeting, Voo Doo office.  
5:40—Musical Clubs Meetings, room 10-250.  
Thursday, October 9  
4:15—La Follette Club Meeting, room 31, Walker.  
5:00—Institute Committee Meeting, Faculty and Alumni room.  
5:00—Crew Mass Meeting, room 5-330.  
Friday, October 17  
6:00—All Technology Smoker, Walker.

A Record of Continuous News Service for 43 Years



Official News Organ of the Undergraduates of Technology

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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 News and Editorial—Room 3, Walker Memorial, Telephone, Univ. 7029  
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**SUBSCRIPTION PRICE, \$2.50 PER YEAR**  
 Published every Monday, Wednesday and Friday during the college year.  
 Entered as Second Class Matter at the Boston Post Office  
 Members of Eastern Intercollegiate Newspaper Association

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In Charge of This Issue:

F. E. Anderson '26

YOUR CLASS AND FIELD DAY

AMONG the annual events at Technology is the Field Day, the athletic contest for supremacy between the two lower classes. To have even an even chance of winning on that day, it is necessary for every possible man to report for whichever one of the four events he feels that he will make the best showing in. The spirit of one man is insufficient to bring out a victory. No matter how much the leaders of an army want to win a battle, it is impossible for them to do so unless they have enough men to enable them to overcome the enemy.

Similarly, regardless of the spirit of the leaders of the freshmen and Sophomores, they can in no conceivable way carry the banner of their class through to victory without enough men, not only to make up one crew, one tug-of-war team, one relay team, and one football team, but at least twice that number.

One of the unfortunately familiar pictures of Field Day teams practicing is that of the football team running signals day in and day out, simply because there are not enough men out for them to hold a scrimmage of any kind. Likewise, it becomes necessary for the tug-of-war men to hitch one end of their rope to a post, because they haven't enough men to put a team on the other end. A second team is not so vital to the crews and relay men, though there should be a sufficiency of substitutes to cover accidents of any kind.

How many times in recent years the class football teams have had out of town games, and not even enough men have reported at the station to make up a team. Cases have been known, all too frequent, where men have been borrowed from the substitutes of the opposing team in order to give Technology eleven men to put on the field. What a reputation this must give the Institute among the schools and colleges that our teams meet!

If there aren't thirty men out of the four hundred in the class of 1928 who have played football at some period of their existence, and who can find or make time to play this fall, it is a pretty poor bunch of men. The same thing applies to the present Sophomore Class. Thirty men who know anything about football would make up a good squad, with enough players to get in some useful practice.

Who does not recall the exhibitions of so-called football that have been put on in past years? Games where two fumbles in the same play are not unknown! Games where a play that goes through without a fumble is the exception and not the rule! Why? Simply because there have not been enough men on the field during the season to get the men used to hitting the line without dropping the ball.

A CALL TO ACTION

THE new man entering Technology is in the midst of a veritable confusion—he is besieged with solicitors, confronted with a maze of activities and confounded by the pandemonium of it all. To survive the tumult and to choose from the babel of conflicting voices the incoming man, particularly the freshman, needs something of a discerning mental olfaction to point out the most advantageous course.

We believe that the man who has this power of discernment, this foresight, is the man who conceives his college career as an existence broadly inclusive of scholarly work and participation in student activities.

Most men have the capacity to extend their work beyond the realm of curriculum requirements. To these men we urge an immediate consideration of their qualifications for student activity work. Which activity?—That is the question calling for discernment and care.

The opportunities are broad enough. Three publications, Tech Show, Walker Memorial Committee, the year book, the professional societies, varied athletics, and whatnot offer a field of opportunities unequalled for the development of leadership and creative abilities. The path of least resistance is to ignore this many faceted extra-curriculum life; the open road to a successful college career lies in a realization of the real enjoyment and the thoroughly helpful training activities offer.

So accept the call to action. Make use of the enthusiasm and vision you bring with you as a new student in getting a running start in an activity best suited to yourself. Choose carefully, keep your studies in the front of your prospective, but start at once!

THE TECH takes great pleasure in announcing the election of G. F. Brousseau '26 to the position of Sports Editor.



Dear Lounger:

Now the wan survivors are gathering for another nine months duel with the faculty. Refreshing for their verbiage are the still green faces of the newcomers—the little freshmen.

I suppose about this time these inspiring youths—who have not even heard of the infant tradition—find life full and overflowing. They are just discovering that half of the instructors each want you to spend two thirds of your time on their subject. As they are exposed to more than one and one half instructors, they have not solved the problem—as yet.

Then in addition there are the posters—as deluding as the sweet smiles of the brethren during rushing season. The poor frosh is pulled in as many ways as he would like to have whiskers on his upper lip. He should have realized after the great reputation that he made at G.H.S. (Greenneck High School) that of course his shining light would be spotted at once.

Doc Connor's squad of never-say-dies are pounding the weary miles. Bill Haines' latest splash up and down the Charlie—not even pausing to lay their cars at half mast over the spot where the once honored Beaver met its fate.

Pigskin artists argue for possession of Tech Field with the foreign soccer element that they may do justice to the coming Field Day.

Ever I, the proud owner of a Vote X, can hear them as I sweat my fourteen hours a day for my daily two bits. Gone are the days when "Now gentlemen, if there is no discussion on this point" and "Down in my down town office" would filter sweetly into my dreams as some gentle nightmare from another world. Then I was free of such horrors as the Income Tax collector—in fact I still am. Then I was as free—except for those cursed nine o'clocks—as a little birdie on its well known and justly famous wings. Now—alas—I live in Utah—where only the sage brush is free. Ah! The budding Engineer! How much sweeter than the full blown flower!

(Signed) J. B. Ex '24, ex '25.

The lounge gratefully acknowledges the receipt of the above communication from his erstwhile boss. There is a hunch somewhere, however, that his sentiments are reflected in "The Cowboy Ballad," the embryonic engineer taking the place of the cowboy:—

"Oh the cowpuncher loves the whistle of his rope,

As he races over the plains;

And the stage driver loves the popper of his whip

And the rattle of his Concord chains;

And we'll all pray to the Lord that we will be saved

And we'll keep the Golden Rule;

But I'd rather be in Boston with the girl I love

Than to monkey with this — mule."

"The Devolution of the Collegiate Ford" has been suggested as a topic offering possibilities for a Thesis subject. Forward looking freshmen, nota bene!

This peculiar phenomenon of economic and scientific importance holds a wealth of interesting facts, and offers intriguing sidelights on the mental process of college students.

Defined, the collegiate ford is "any mass of transient mechanism costing in excess of twenty-five dollars, but having an actual cash value of under five dollars." Taken from another angle, it may be described as an antiquated, abbreviated, and usually stationary piece of plunder which may be traced by means of comparative anatomy and paleontology to its antedeluvian ancestor, the gas-buggy. The fossils that have been studied give indubitable proof of the devolution of the species.

It also furnishes us with an excellent illustration of fissiparous reproduction, or reproduction by fission or division into parts. What was once one original, whole, and complete unit, becomes in the course of time two, four and even more separate individuals. No Collegiate Ford in captivity is known to contain more than five percent of its original parts.

Now the outstanding fact that a study of this subject offers to the research student is the demand for this unglorified perambulator among college students, genus: Homo Boobiens. Their neurotic craving for it in all its polymorphic forms defies even Freudian psycho-analytical methods of explanation. It has become a social necessity—females of the species refusing to ride in new machines, demanding instead either a Rolls Royce or a Collegiate Ford.

Technology offers a wealth of material for research along this line, being, it seems, a repository of discarded and seems, a repository of discarded and worthless vehicles of all kinds and descriptions. The Lounge urges those with an original scientific bent to investigate all the varieties extant, if possible dissecting all available specimens so that they cannot in any way be reassembled. Otherwise, we will have to have passed an amendment to the Constitution which will prohibit them.

Young Men's Autumn Suits At Scott's—Priced at \$45

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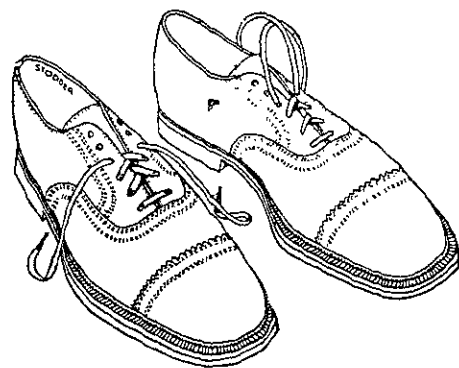
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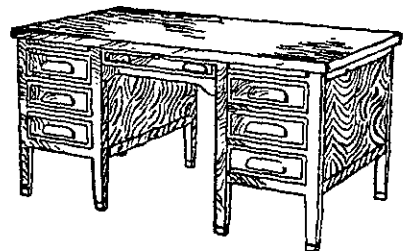
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# CROSS COUNTRY COACHES CALL FOR MORE MEN

## Last Season's Fencing Team Is Almost Intact

### PLAN TWO TEAMS OF HARRIERS FOR EARLY CAMPAIGN

#### BEMIS AND ROONEY BACK

Coach Oscar Hedlund to Help Connors in Distance Run Coaching

#### SCHEDULES ARE MADE UP

"We want men out for the cross country squad this year and lots of them" was the sentiment expressed by Coaches "Doc" Connors and Oscar Hedlund when interviewed yesterday at the track house where they welcomed men new and old who dropped in to don track clothes for the first time this fall. Although at present few men have come out for the sport, the coaching staff expects a large turnout from the new men of the school, whether they have had previous running experience or not.

Something new in cross country policy at Technology is planned this year in having two varsity cross country teams. As a nucleus Capt. Bemis and Rooney are the only letter men back in running clothes for this year's squad, making it rather a tough proposition for the mentors to whip up two teams for a schedule that calls for the first run in less than a month. Wills, a substitute and Hunt and Defazio of the freshman harriers of last fall are promising material. Gift Simmonds, Preston and Parkinson, who ran last year are other men strongly counted on to bare the brunt of the heavy work.

#### Cross Country Good Builder

According to Coach Hedlund, a champion distance runner in his day, "cross country is the finest exercise for building up a man for track work that there is." As "Doc" thinks practically the same on this matter, the development of two strong cross country squads which will greatly enhance the chances of having a strong distance department in the spring is sought after. "If we take men who are new in track work, and start them out at the shorter distance runs we would soon wear them out," said Coach Connors, "it is our intention to get as many men out for cross country as possible, start them in easy and build up two varsity cross country squads of equal ability." "The task of forming two good teams depends on how many men turn out for work in the next week."

Schedules have been made out for both teams. For varsity squad No. 1 Holy Cross, Harvard and Princeton, for the 2nd squad Brown and New Hampshire are booked.

#### Teams Are of Equal Ability

Varsity No. 2 is also entered in the New Englands while both teams will take part in the big I. C. A. A. A. meet over the Van Cortlandt Park course in New York. These schedules will present a good season of competition for the teams and is expected to give the men some worthwhile experience.

As the stars will be divided between both teams, the squads will be made as equally strong as possible. With so many places to fill opportunity to make a letter are unusually bright for men just coming out, since there will be two varsities instead of one.

### St. James Theater

Mat. 2.15 except Mon., Thurs. Eve. 8.15 Tel. B.B. 0202

#### WEEK OF OCT. 6

The Boston Stock Company in

## "Across the Street"

With the most novel third act in history—  
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### SWORD WIELDERS ALL SET TO MAKE A RECORD SEASON

Everyone Back Except Serrano In Sabres, and Blake In the Epee

#### TEAM NEEDS CANDIDATES

In comparison with the other activities at the Institute, the fencing team seems to have gone through the gauntlet of vote tens and graduations with very few casualties. Serrano, captain of last year's team and winner of the New Englands in sabers, and Blake, last year's star epee man, are the only two out of the game and while their absence will certainly be felt it will not be fatal to the team for there are other men who with another's winter's work behind them will be amply able to take care of the bouts coming this spring.

#### Levis a Good Fencer

All of last year's foil men are back and that part of the team is perfectly intact. Levis, Ferre, Hawthorne and Seabury are the four principle men and everyone of them has had at least two year's experience. Their record last year was not at all bad and with another season of meets they should turn out to be a pretty smooth working group. This is especially true of Joe Levis, who fenced exceptionally well last year but as he was only a Sophomore, that was his first chance at fencing before a crowd of onlookers and they naturally made him somewhat nervous.

Hawthorne, on the other hand, is extraordinarily blasé as to his surroundings and in two of the meets last year it was this exceptional coolness that prevented the fencing part of the team from being completely swamped. Ferre is also not in the least worried by galleries but is inclined to be erratic, alternating between very brilliant and mediocre foilwork. Seabury is an extremely good defense man who goes on the principle that it is better to keep an opponent from touching him and wait for the right opening than to make an attack at any old time and trust to luck that he will get the other first.

Blake's place in the epees will be filled by Cole who first took up the sword last year but showed such adaptability to it that he was entered as second man in the last two meets and in the Intercollegiate. After a month or two of practice to wear off the results of an inactive summer he will be ready to make the best of them do considerable sweating.

#### New Men Wanted for Spring

Cole and Hawthorne will take care of the sabres but they will have to do some tall work if they hope to exceed Serrano's record. Hawthorne however, fenced sabres last year and on the average came through pretty well although he did not have the experience necessary to give the versatility required with this weapon.

Although it is rather early in the season to expect many candidates Manager O'Neil wants them to come out as soon as possible so as to get things under way. As usual there will be freshman meets with other colleges in New England and an extra month's practice is something not to be sneezed at.

Fencing is not, as many people imagine a tame and effeminate sport. On the contrary it is easily as active as any other and requires far more science. In addition it is not a sport which develops a single set of muscles but one that uses everything from the arch of the foot to the neck and requires a lot of mighty fast headwork. It is the only sport that breeds such a fine co-ordination between mind and body that an entire movement may be executed within a tenth of a second.

#### Varsity Hill Schedule

October 24—Brown University at Technology.  
November 1—New Hampshire State at Durham.  
November 8—N. E. A. A. U. at Franklin Park.  
November 15—N. E. I. C. A. A. at Franklin Park.

#### Varsity Level Schedule

October 25—Holy Cross at Technology.  
October 31—Harvard at Harvard.  
November 7—Princeton at Technology.  
November 24—I. C. A. A. A. at Van Cortlandt Park.

### McNab To Coach Soccer Team In Fall Campaign

To coach the soccer squad this year Technology has been very lucky to obtain an international figure of the gridiron in Alexander McNab who starred on the championship Scotch Soccer Team of 1922. This, along with the return of many of the members of last year's undefeated eleven gives the prospects for another victorious season a rosy appearance as the "kicks" start out on their first week of practice.

McNab had ten years of experience in the professional game before coming to Boston to play. He is a brilliant forward playing on either extremity of the front position, outside right or outside left with equal skill. A man of this type is a great asset to the scoring game of the team as the fundamentals of advance the ball and accurate kicking can be coached into the team.

First day of practice brought a large turnout, made up largely of veterans among whom were Sun, Knight, Ruiz, Marques, Jones, Young, Cummings and Cheney. Last year's squad defeated Amherst, Clark and Worcester Polytechnic, tying Dartmouth 1 to 1. West-point is added to this year's schedule.

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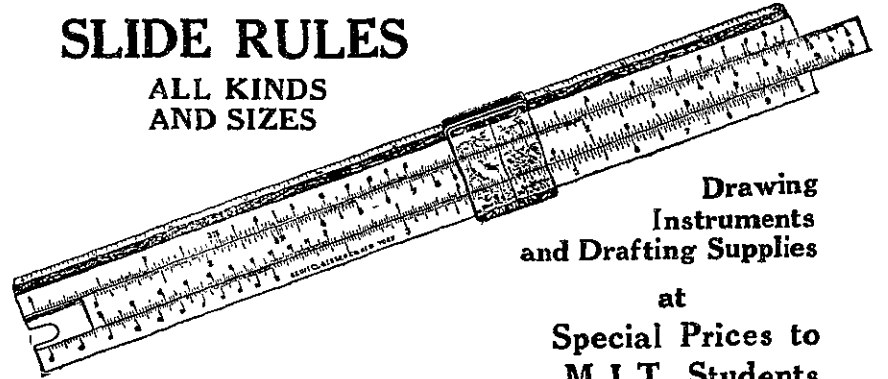
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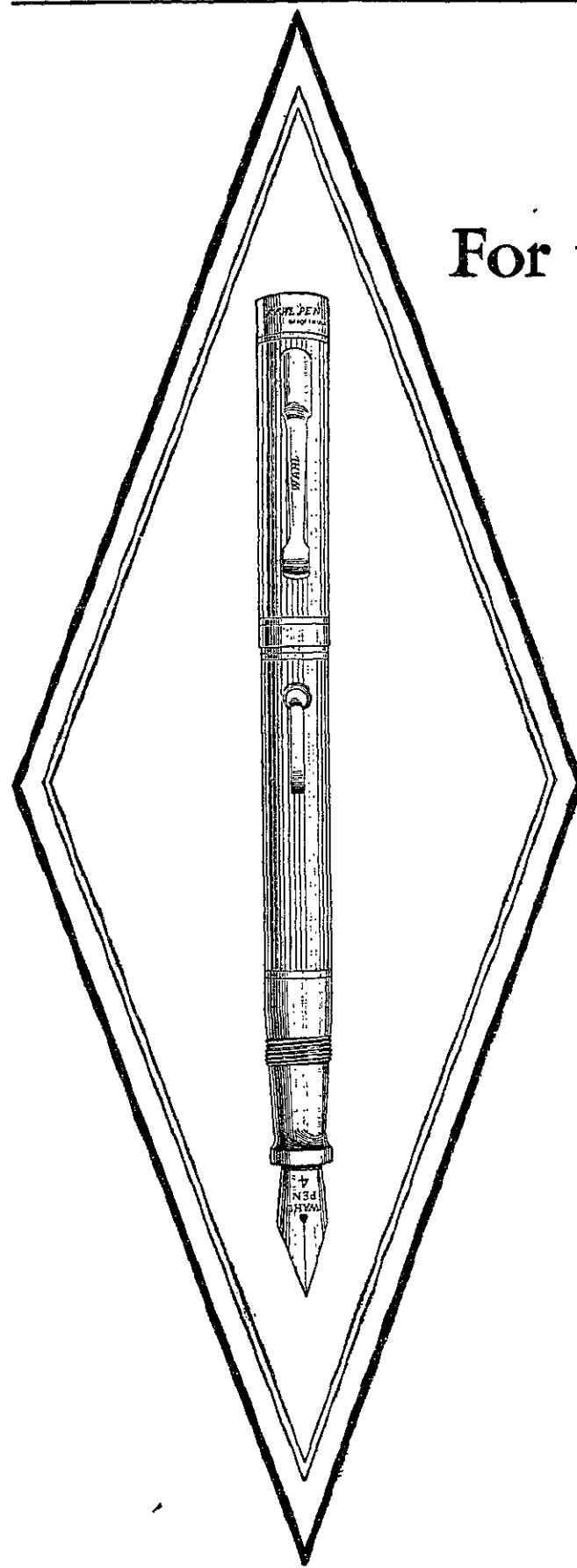
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# WAHL PEN

### Competitions In Swimming To Open

The Competition for Sophomore manager of the swimming team will open next Tuesday and will run for the first term only. This will be an excellent opportunity for those men who did not feel free to come out their freshman year and the competition period is short enough so that the agony will not be prolonged unnecessarily. The call for varsity candidates will open the week after competition begins so that the men will have an opportunity to show their ability to persuade good swimmers to come out in addition to their managerial activities.

Competition for freshman assistant will open on the same date but will run for two terms instead of one. Although the real campaign for freshman swimming candidates will not open until after Field Day there is no rule to prevent them from coming out earlier if they wish to. Manager Lord will be in the M. I. T. A. office every day from three to five-thirty o'clock in addition to several stray periods now and again during the school hours.

The swimming schedules will be announced at a swimming mass meeting the date of which will be given out when the call for varsity candidates is issued.

### Nine Portraits of Benefactors Added To Walker Memorial Decorations

The installation of a group of nine portraits of benefactors of Technology will complete the redecoration of Walker Memorial. Among them is a portrait of Augustus Lowell, one of the most generous trustees of the Institute during the early days, which was presented to Technology by his son, President Lowell of Harvard.

Included in the collection is a portrait of President Runkle by Joseph De Camp, one of President Pritchard, and one of President Rogers, which was loaned by his niece, Mrs. Charles Russell. President MacLaurin's picture will be added in the near future.

At the end of the hall is a large picture of Dr. Walker, who donated to the Institute the first \$100,000, which enabled it to get its charter. Professor W. T. Sedgwick, for a long time head of the department of biology, Professor R. H. Richards, retired head of the mining engineering department, and

Richard Perkins, who established the Perkins fellowship, are also represented. A portrait of John Cummings by Frederick Vinton and one of William Endicott, presented by his son, William Endicott of Peabody & Company, complete the collection.

Seven of the pictures were set in place Saturday under the direction of J. P. Munroe '82, secretary of the Corporation. The others will be added in about two weeks, and marking tablets placed under all of them.

The redecoration of Walker was commenced early last spring by the painting of the mural by E. H. Blashfield '69, decorated in light gray and blue, which harmonizes with the colors of the mural much better than the old red and cream scheme. The expense of the redecoration is being met largely by alumni who insist upon remaining anonymous.

### FROSH FOOTBALL CANDIDATES ARE OUT IN NUMBERS

Sophomores Practicing Daily In Order to Win Field Day Contest

#### MANAGERS ARE WANTED

If the turnout on the first day is any spirit of the Sophomore class as far as criterion, the freshmen have twice the football practice is concerned when 23 aspirants for frosh team berths signed up on the first day to only eleven for the upperclassmen. Although the Sophs are organized and have many of last year's squad which tied 1926 last Field Day 6 to 6, it is the opinion of S. H. Baylor '26 that unless a revival of the old class spirit of 1927 comes about, the newcomers will be the favorites when they clash Nov. 11.

**Start Grass Practice**  
In the frosh ranks there are men that have starred in their high school days, some that have not played for quite a while, others that have entered on the gridiron for the first time. For the first practice 23 is the largest number yet recorded and under the able coaching of the Juniors, a team that has a lot of punch will result as two teams can be made up for scrimmages, a situation entirely different from that of 1927 whose showing will barely make one team.

This week Coach Tom Price will put his frosh charges through "grass practice" which includes falling on the ball and catching punts; anyone who saw the Field Day fracas of last fall remembers the fumbles that totally wrecked a smashing freshmen eleven. Time after time they would march the ball steadily toward the Soph goal only to fumble, thus giving the Sophs the underdogs in the betting an even break.

**Scrimmages Soon**  
Next week signal practice and scrimmages will be the order of the day for both squads as games have been scheduled with St. John's Academy for the frosh and Dean Academy as Soph opponent. With the games so near the coaches face a tough proposition to get the men in condition to stand the route of four strenuous quarters of bucking running and hard knocks unintentional ad otherwise which came up in a Soph-freshman battle.

Like last year the Sophs have the blase manner that doesn't win games for with such a small turnout no allowances can be made for injuries. The preliminary games will call for many substitutes although the squad at present is made up of seasoned veterans. Red Earl, Franks, Small, Volante, Ernie Dodge are still on the forward wall, while Burke and Cline still grace the backfield. These fellows played a whale of a game last season and are out to rough the frosh up a bit in the coming battle for the Field Day cup.

Several of the gym team men have already come out for practice and most of the rest will be out this afternoon, but as yet no coach has been secured to train the men. The proper authorities had better get busy.

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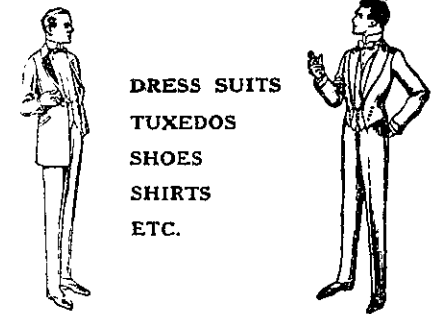
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### Notices and Announcements

#### OFFICIAL

**POLITICAL ECONOMY Ec. 31**  
The Political Economy lectures will be given on Monday from 3 to 4 in room 10-250 for all except 3rd year, Course IV students. The lectures for this group will be given at the Rogers Building on Tuesday from 11 to 12. Recitations will be held in the rooms given in the Class Schedule.

#### Journalism Option

This year the freshmen will again be given an opportunity to substitute a course in journalism for the composition work of English and history 11. The work will be conducted by Mr. Penheld Roberts, who is connected with the Boston Globe. Because of the novel and interesting way in which it is taught, the course has been very popular with the students in the past. All men who are interested in newspaper work and who feel that they would like to get into the college journalism game should not fail to take advantage of the opportunity.

Owing to the fact that several changes have been made, the class will not be restricted to men in sections five to ten inclusive. Arrangements have now been completed to hold the class from four to five o'clock on every Tuesday and Thursday of the first term. The lecture section in history will come on Friday as scheduled. As the section will be limited in number, it is to your advantage to consult Professor Pearson, head of the Department of English and History as soon as possible. This work is equivalent to and may be substituted for your work in English as shown on the tabular view. Watch THE TECH for further announcements.  
THE TECH, VOLUME XLIV

#### UNDERGRADUATE

##### INSTITUTE COMMITTEE

There will be a regular meeting of the Institute Committee on Thursday, October 9 at 5 in the Faculty and Alumni Room, Walker.

##### TECHNOLOGY BLOTTERS

All students are entitled to one desk blotter 19x24 inches. Men not living in the dormitories or fraternity houses may obtain blotters by calling at the T. C. A. office.

##### MUSICAL CLUBS

Any men interested in the Musical Clubs please attend the meeting in 10-250 today, October 8, at 5. Men interested in management, call at room 310 Walker any day from Monday after 4.

#### VARSITY AND JUNIOR CREWS OUT YESTERDAY

(Continued from Page 1)

Breaking all records for early turn outs the varsity and junior varsity crews showed up at the boat house yesterday afternoon and went for a good stiff row down the river and back. The fact that both crews turned out intact on the first day of school is something absolutely new in the annals of the Institute.

Both crews rowed down to the west end bridge in good snappy time and then went back by easy stages with Bill Haines coaching and giving short lectures from the launch. The varsity line up was as follows: 1, Hamblet; 2, Frink; 3, Hoile; 4, Gorfuch; 5, Collins; 6, Latham; 7, Sutter; 8, Valentine and Houghton as cox. Although this line up is not permanent, for line ups never are with Bill Haines, the men

#### UNSIGNED CHECK

Will the man who forgot to sign his name to a check on the Cambridge Trust Co. under date of October 2nd, for \$7.50 for books obtained from the T. C. A. Book Exchange kindly call at T. C. A. office and sign the same.

#### BOOK EXCHANGE

Upperclassmen having books they wish to sell and which are to be used this term may leave the same for sale at the T. C. A. office. Books may be sold for up to two-thirds their original cost.

#### VOO DOO

There will be a general meeting for all those interested in Voo Doo at their office in Walker Memorial tonight at 5 o'clock.

#### T. C. A. HANDBOOKS

All freshmen and transfers not yet provided with the T. C. A. leather-covered handbooks may obtain the same by calling at the T. C. A. office, basement of Walker Memorial. All former students may obtain paper covered handbooks by calling at the same office.

#### ROOMS

Men who have not obtained rooms may receive information concerning the same from the lists at the T. C. A. office in Walker Memorial.

#### LaFOLLETTE CLUB

An organization meeting of the LaFollette Club will take place at 4:15 tomorrow in room 31, Walker. Everybody welcome.

#### CREW

All men interested in crew are urged to sign up any time today at the crew headquarters in the Main Lobby. For the remainder of the week sign-ups will be taken between the hours of 12 to 2. The first mass meeting will be held Thursday afternoon in room 5-330 at 5.

#### VARSITY AND FRESHMAN SOCCER

All those interested in varsity and freshman soccer will report to the coach on the Tech Field at 3 o'clock, Monday 6. There will be a short practice between 3 and 5.

#### MASS MEETING

There will be a Sophomore-freshman mass meeting today at 1 o'clock in 10-250.

#### SOPHOMORE FOOTBALL

There will be Sophomore football practice every afternoon at 4 o'clock. Report in uniform if possible.

did first rate pulling together in good time and making quite good speed for so early in the season.

Herckman who was number five man on last year's varsity is not back this year and his loss is felt quite badly. There were 121 candidates out yesterday which exceeded even the fondest expectations of the coaches for the first day. If they continue to come out at this rate, the much longed for record of 500 will be a thing of the past by the end of the week.

Bill Haines and Don Sayre will both have a hand at coaching the freshman crews at first until field day but as soon as they are well underway Sayre will assume full charge while Bill will devote his entire efforts to whipping up a corking good varsity. The Sophomores will have Coach Pond who was rowing at Harvard when Haines was coach so that he will consequently carry out Bill's ideas as to the best way to row.

(Continued on Page 5)

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COPLEY: "Clubs Are Trumps." Average comedy.

HOLLIS: "Aren't We All?" Delightfully humorous comedy.

MAJESTIC: "Mr. Battling Buttler." Musical comedy. Last week.

PLYMOUTH: "Outward Bound." Gripping, serious drama.

ST. JAMES: "Across the Street." Reviewed in this issue.

SELWYN: "For All of Us." A play with William Hodge.

SHUBERT: "Innocent Eyes." Winter Garden stuff. Last week.

TREMONT: "Little Miss Bluebeard." Irene Bordoni. "Nuff said.

WILBUR: "Little Jessie James." Snappy musical comedy with a Whiteman band. Last week.

**SMALL-TOWN COMEDY AT ST. JAMES IS AMUSING**

"Across the Street," the comedy at the St. James this week, is the Chataqua Prize Play, written by Richard Purdy. The story is an interesting one of intrigue arising from an attempt to put an end to graft in a small New England town. In the absence of one of the grafters, a young Kentucky newspaper man gets control of the local paper, and by its means, with the cooperation of a local store owner, contrives to bring about a revolution in the town's affairs. The villain, of course, returns in time to block the change, and he is in turn blocked by the young journalist's father, a real old Kentucky colonel, who arrives just in time to take charge of the striking pressmen, and to silence the villain.

The comedy of the play lies in the fact that the small dry goods merchant, "Joe Bagley," with whom the young editor, "Kenneth Dodge" connived, wrote the radically reforming editorials, while Dodge directed the rejuvenation of the dry goods store. Consequently an interesting and amusing situation is created when Dodge has to face the townspeople at a special meeting to back up editorials he has not written.

Herbert Hayes, who took the part of Kenneth Dodge, was pleasingly energetic, and fitted into the role well. Mr. Hall, as the old Kentucky colonel, was also capital. The play as a whole is amusing, and interesting in its development of possibilities. In the last act, where the town meeting scene occurs, the comedy becomes almost overdone, perhaps almost burlesque.

C. R.

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The Combined Professional Societies offer the student an opportunity to correlate his school work with developments in industry by enabling him to meet and listen to notable scientists and engineers, both from other colleges and from those who are engaged in the practice of their professions.

All upperclassmen and graduate students are eligible for membership in the various societies, and men wishing to sign up may do so at the table in the main lobby, which will be open from 9 to 5 o'clock every day this week. In addition to this table in the main lobby, each society will have its own table near the headquarters of the course from which it draws the majority of its members.

There are eight of these Professional societies: Mechanical, Electrical, Mining, Chemical, Aeronautical, and Civil Engineering Societies; Corporation XV, and the Army Ordnance Association. The societies are student chapters of the national associations for the advancement of the engineering profession, and enable the student to visit industries where he may observe and become familiar with approved practices of engineering and manufacturing.

From time to time the societies conduct smokers at which men prominent in the engineering professions discuss their work, often illustrating their lectures with slides and motion pictures, and occasionally demonstrating actual processes. Introductory smokers of this nature are now being planned, although their exact dates have not yet been set. All men eligible for membership in the societies are invited to attend these smokers.

**MINERS GIVEN ACTUAL WORKING EXPERIENCE**

**Summer Camp is New Jersey Is Located at Iron Mine**

An intimate insight into the working conditions and problems confronting the mining engineer at the actual field of operation was offered this summer to the 16 students who enrolled in the M. I. T. Summer Mining Camp which is located at one of the iron mines of the Replogle Steel Company at Dover, N. J. Many of the men had never seen a mine before and it was one of the main objects of the camp to furnish the men an early contact with the working conditions of their profession.

The camp commenced July 28 with two students from the Harvard Geological School included in the enrollment. A course in surveying occupied the first eight weeks and mining practice took up the remaining week of the summer course. A trip was taken to one of the mines of the New Jersey Zinc Company at Franklin, 20 miles away.

It is intended to build some dormitories for the course next summer to give added facilities for accommodating the men. A rather intensive course of instruction was followed and two evenings a week were given over to classes. There were no classes over the weekends and many of the men took trips to New York and other cities. Professor Hutchinson was director of the camp and Mr. Eberhard had charge of the surveying work.

Freshmen planning to come out for cross country should report at the track house at once, as the first meet is due the last day of this month with Harvard. Cross country offers unusual opportunities for the wide awake freshman; the men making the team are almost always sure of a position on one of the varsity squads during the following years. It is hoped that a great many freshmen will come out for cross country this fall, thus helping to build a strong winning team for the future.

Pop Steadman is a true friend of the working man. Almost every time the fencing team gets upstairs in Walker the handball courts are filled with sweating players who protest most vigorously at any interference. Also the nice white courts get sort of dirty and there ceases to be enough light to even partially see. Pop promises to see to it that the team will have one court where it can park its mats in comfort and security.

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On looking over the baseball diamonds fresh with green grass and well-rolled baselines, we shudder with horror at what is going to happen to the playing now in good order when the freshman army has strolled across them a few times. Perhaps at this time a request to the drill officers to refrain from squad movements on the diamond proper would save us a lot of time and trouble in the spring.

The track is one of the sights of the Institute at the present time. Everything shines with from three to four coats of nice clean white paint while the grass is cut quite neatly and the old cinder path itself is a beautiful dream. Mike Hoar spent a good part of the summer and fall fixing it up in preparation of the hard wear when track begins in earnest. All hail and praise to Mike.

**VARSITY AND JUNIOR CREWS OUT YESTERDAY**

(Continued from Page 4)

The Senior crew will be coached by May, who is the professional at the Union Boat Club and who has the reputation of being a first class teacher. The Juniors will have Farnsworth from the Detroit Boat Club who is also rated as a first class man, so that the Institute may look forward to some interesting races between the two upper class crews.

There is still a need for more managers. According to Manager Guy Frisbie, very few men have applied for that position. Those men wishing to apply should attend the meeting and consult the manager immediately following. The men who are the first to sign up are the ones who have the greatest chance of climbing to the top.

**FRESHMEN WELCOMED AT MEETING MONDAY**


(Continued from Page 1)

for the struggles of after years, and who are responsible for the reputation which the Institute has for sending out successful and competent men. The opportunities which are given to every student to consult with his professors in their free house and thereby to learn how they are proceeding in their studies were commended as occasions for cultivating such intimate acquaintances with one's instructors.

Dr. A. W. Rowe '011, the Chairman of the Advisory Council on Athletics, in his address urged the importance of athletics in an engineering college of the type of Technology where the work is so much more strenuous and the demands of studies leave such little time for recreation and exercise. He urged the freshmen to make the best of "monkey drill," adjuring them not to look on the course as a necessary evil. In speaking of the importance of good health a call was issued with the object of getting new material for the various competitive sports engaged in at the Institute.

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- 3—To keep account open, payment must be made before the 10th of the month following.
- 4—No dividend is paid on a balance unpaid on the 25th of the month following.
- 5—The stockholders have the right to vote 2% greater dividend upon cash purchases than upon charge purchases.

### DIVIDENDS

In recent years the dividend rate has been 10 per cent. on cash purchases and 8 per cent. on charge purchases. Your dividend checks for 1923-24 will be ready Tuesday, October 14. Bring your membership cards. A teller from our bank will be at the store from 10 A. M. to 3.30 P. M. to cash dividend checks.

### CONCLUSION

Join your store and make all your purchases there. Your store has all the text books and all materials used in every course.

CIGARS

BAGS

LABORATORY COATS

TOBACCO

MEN'S FURNISHINGS

SUITS AND OVERCOATS

TOILET GOODS

TECH JEWELRY

## TECHNOLOGY BRANCH

## THE STORY OF THE TECHNOLOGY BRANCH

WE ARE GIVING BELOW A REPRINT OF AN ARTICLE BY MAJOR EDWIN T. COLE WHO WAS THE FIRST TECH DIRECTOR ON THE BOARD OF DIRECTORS OF HARVARD CO-OPERATIVE SOCIETY. THE ARTICLE SHOWS HOW THE TECH BRANCH WAS CALLED INTO EXISTENCE AND THE ARTICLE IS NOW AN INTERESTING HISTORICAL SKETCH.

IT MIGHT BE WELL TO MENTION HERE THAT TECHNOLOGY'S REPRESENTATION IN THE MANAGEMENT OF THE BUSINESS HAS BEEN GREATLY INCREASED IN THE PAST SIX YEARS. PROFESSOR DAVIS R. DEWEY AND PROFESSOR E. F. MILLER ARE NOW STOCKHOLDERS. THE FOLLOWING MEN FROM TECHNOLOGY HAVE BEEN NOMINATED AS DIRECTORS FOR THE COMING YEAR: WALTER HUMPHREYS, H. S. FORD, JASPER WHITING, AND G. H. STARK, FROM THE STUDENT BODY. MR. HUMPHREYS IS ALSO NOMINATED FOR THE OFFICE OF SECRETARY OF THE CORPORATION.

Here is Major Cole's letter as it appeared in THE TECH on April 3, 1916.

TECHNOLOGY BRANCH

HARVARD CO-OPERATIVE  
SOCIETY

Last year the Institute Committee, having gone into the subject of the Technology Co-operative Society, particularly with a view to establishing co-operative service at the new Technology, asked the Alumni Council to appoint a committee to investigate the matter and to make recommendations. This action was taken and the Committee after a very thorough investigation, nation-wide in its scope, suggested that the Harvard Co-operative Society, one of the most successful in the country, be invited to establish a branch as close to the new Technology as possible. This recommendation having been approved by the Institute Committee and accepted by the Harvard Co-operative Society, arrangements are now in progress for carrying out the plan.

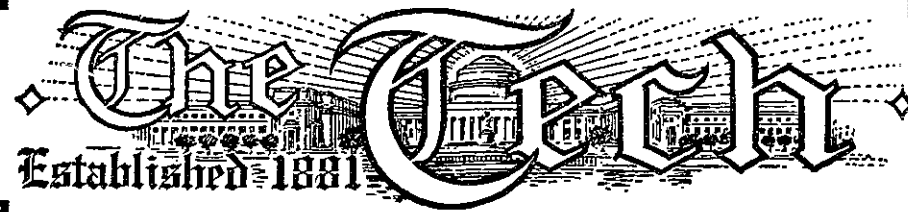
One of the suggestions has been that a member of the Technology Faculty be elected to membership in the Board of Directors to represent the Institute in carrying out the plan, the undersigned on nomination of the President was duly elected and has secured this space in THE TECH for telling you all the details of the plan and its advantages to Technology.

In this first article it is desirable to make a statement which will be repeated and argued about right along until everyone is convinced. Your branch is to be part of a real co-operative effort. The cost of any article to you will be the wholesale price procurable by a very large buying power, plus the cost of selling minimized to the utmost degree by scientific business management. Any charge over these two costs will be returned in dividends. But to make the scheme a success Technology must back it to the limit. This matter will be changed in each issue. Be sure to read it.

EDWIN T. COLE,  
Major, U. S. Army.

## FRESHMEN AND SOPHOMORES

Do you want to get into a  
"live wire" activity?



### VOLUME XLIV

announces its annual Fall Competition to be conducted in the advertising, news, editorial, treasury and circulation departments.

Previous newspaper experience not necessary. We will train you to the work.

Men interested are asked to confer with the General Manager in Room 302, Walker Memorial.

**BE THE FIRST TO COME OUT  
ACT NOW!**

### T. C. A. REGISTRY OF ROOMS ACTIVE

Nearly Eight Hundred Cards  
Sent Out to Landlords  
And Landladies

Following the policy of recent years the T.C.A. has collected information regarding available rooms. On September 6, letters were sent out to 778 landlords and landladies, asking them to register rooms if they so desire. To register rooms the landlords or landladies were obliged to fill out a report blank concerning the condition, price, and number of rooms for rent; also if any meals would be served. They were asked to give a reference of a Technology professor or a minister. Blanks were sent to the people whose names had been sent in as references, asking them to vouch for the character of the landlord or landlady. A committee consisting of D. C. Hooper '25, E. R. De Luccia '27, C. A. Sandborn '27, G. J. Leness '26, inspected all the registered rooms. The inspection consisted of finding out the location, the number of windows, the condition of the rooms, and the impression of the landlady or landlord.

Cards were sent out to the students occupying registered rooms last spring to find out if their rooms were satisfactory or not. All Boston lists were checked by the registry of the Womans' Educational Industrial Union, the Y.M.C.A., and the Boston Student's Union.

It is impossible to state at the present time how many men have been helped by the T.C.A. registry. Indications are, however, that fewer men will be served for the reason that the '93 dormitory as well as Ware and Crafts dormitories are now open. It has been the policy of the T.C.A. not to force its service on people but to do all it can to help them.

Information regarding rooms will be continued to be furnished until Tuesday in the hallway leading into the room in the west lounge of Walker Memorial; after Tuesday, in the T.C.A. office.

### HARVARD BRIDGE NOW IN STATE OF REPAIR

Hopes for a silent and beautiful Harvard Bridge are again bright, is the comforting assurance of Nathan Levy '11, Metropolitan District Commission engineer who is superintending the work of reconstruction now in progress. Elimination of vibration and improved wearing qualities are expected to result from the stiffening of the floor covering.

The state legislature authorized an appropriation of \$600,000 for the repair of the bridge last May, but the contract was not let until July 10, when it was awarded to V. James Grande, Boston contractor, for \$388,000. Painting and extras will bring the total of repair between four and five hundred thousand. The engineers expect the bridge to give no further trouble for twenty years. A new bridge would have cost upwards of two million dollars.

The contract stipulated that the job be completed by December 31, but the present indications are that the estimate was unduly optimistic, although Grande is now only five percent behind schedule. The two-thirds of the bridge now torn up will be completed by Christmas, but it is very doubtful if it will be opened to vehicular traffic until the entire job is completed, since the vibration would impair work being done on the other side.

The alterations being made are considerable. The bridge is being stripped down to the piers and girders, which run lengthwise of the bridge. The same floor-beams—these are transverse members—are to be used, but will be strengthened by reinforcing the web every so far with angle irons. The wooden stringers are replaced by steel beams, and are covered by an under-decking of tongued and grooved 6 x 9's, each of which is bolted to each stringer. Over this under decking goes two inches of mastic, an asphalt preparation on which a granite block pavement is laid. The roadway is topped off by another light layer of mastic and a sprinkling of sand.