

## ACULTY WILL SEE "THE HAIRY APE" IN ROGERS TONIGHT

Play Is First Venture of Tech  
Dramashop—Cast Ready  
For Opening Night

MRS. KING DISCUSSES PLAY

Students Will See "Hairy Ape"  
On December 15 and 16  
In Rogers

"The Hairy Ape" will be presented by the Tech Dramashop tonight at an invitational performance being given by the instructing staff of the Institute. The play is the first venture of the Dramashop and the management is expecting an auspicious opening.

A number of inquiries have been made about the play and Mrs. Ellen A. King, in charge of the Walker library, discusses it in the following manner:

"The Hairy Ape" is described as 'A Comedy of Ancient and Modern Life in Eight Scenes.' As one follows the play one might conclude that the attributes of human consciousness as portrayed denote the ancient, the differences in expression and speech the modern; perhaps it is better not to draw conclusions but simply to venture an opinion. 'Yank,' the hairy ape, is primitive, the strong forces of his nature run in one groove; during the action of the play the current becomes disturbed and never flows straight and strong as before. It would be interesting to know how many in the audience will interpret Yank's distress as comedy. It seems very like tragedy."

The cast has been working diligently and is eager for tonight's trial. Mr. Dean M. Fuller of the Department of English and History, has coached the entire cast, with the exception of the comedians, who have been under the direction of Mrs. King.

The play will be presented for the student body December 15 and 16, and is to be given in the Commons Room at Rogers Building.

## FORD MOVIES TO BE SHOWN TODAY

Motion Pictures of New Car  
Depict Production and  
Tests of Model A

Mr. R. C. Purdy, service manager of the Ford Motor Company, will be present at the showing of the official Ford motion pictures which the M. I. T. Students' Branch of the Society of Automotive Engineers are presenting this afternoon at 3 o'clock in Room 10-250. During the showing of the film, Mr. Purdy will give a brief talk and answer questions regarding various details of the car and production methods as depicted in the film. The picture itself will show the actual construction and assembling of the new Ford model A, the testing and methods of maintaining accurate standards of measurement. The film is not of the usual "trip-through the factory" variety, but shows in many cases "close-up" views of mechanical operations and assembly operations.

It is hoped that Mr. Purdy will drive over from the factory in one of the new cars so that it may be inspected; but no definite promise could be made. Seats for the invited guests, members of the Faculty and members of the M. I. T. Branch of the S. A. E. are reserved until 3:05. After the showing of the films, an opportunity will be offered for students to join the S. A. E.

## THE TECH Announces A New Competition

Competition for positions in all departments of THE TECH is now starting, and will end on January 18 with elections to the staff. Candidates are wanted especially in the News and Features departments. Students who are interested in the News, Sports, or Features departments should apply at the office in the basement of Walker Memorial; those interested in the Business Department will be made welcome at the office on the third floor of Walker.

Scene From "The Hairy Ape" Dramashop Debut



## MUSICAL CLUBS TO GIVE XMAS DANCE

Concert and Dance To Be Held  
At Whitney Hall Next  
Friday Evening

One of the big affairs of the term in Technology's social season will take place on December 16, when the Musical Clubs will hold their annual Concert and Dance. As has been the custom, the affair will be held in Whitney Hall, Brookline. The program will be the same as usual, with a concert during the earlier part of the evening, starting at 8:30 o'clock, followed by dancing until 3 o'clock.

This will be the first undergraduate appearance of the Clubs this year, and will be the culmination of the pre-Christmas season. So far this year the Musical Clubs have had a successful season, and with three appearances behind them, and three more to come before the Christmas Concert, the experiences gained by these Concerts will go a long way toward making the Christmas program the best that a college organization can present.

Tickets Now on Sale

The program has not yet been arranged, but in its essence it will be the same as in previous concerts this year, with the added advantage of being able to pick the best numbers of the entire repertoire, especially among the specialty acts. The tickets will be on sale in the main lobby every day from today until the day of the concert and will be \$4.00 per couple, and \$2.50 for stags. The regular hours of sale will be from 12 until 2 o'clock, but anyone unable to procure their tickets at this time will be able to obtain them at the Musical Clubs office any night after 5 o'clock.

## Experts Outline Research Work in Milk and Rubber

Address Open Meeting of The  
A.C.S. in Walker Tonight  
—Dinner at 6:30

Modern applications of chemical research to the milk and rubber industries in this country will be the theme of today's meeting of the Northeastern section of the American Chemical Society at the Institute. The meeting will begin at 8 o'clock this evening in the Main Hall, Walker, and will be open to the public.

Two recognized leaders in their respective fields have been secured as speakers. Mr. Washington Platt, who will talk on "Recent Researches on Milk," has long been associated with the chemistry of foods, and is at present in charge of the research laboratory of the Merrell-Soule Co. of Syracuse. He was previously in charge of the laboratory and experimental work of the National Biscuit Company, and before taking his present position was production manager of the Harris Laboratories. This evening he is expected to outline the progress and results of modern chemical research work in the dairy industry.

"The Applications of Chemical Research to the Rubber Industry" is the topic of the second talk. Mr. W. W. (Continued on Page 4)

## DRIVE TO ENFORCE "HELLO RULE" IS BEGUN BY SOPHS

Lower Classmen Enthusiastic  
Following Appeal By  
Class Officers

CHOOSE SOPH DEPUTIES

Men in the two lower classes showed a decided spirit of co-operation when appealed to by their officers for a more energetic support of the freshman rules. These regulations have been followed fairly well by the first year men, but as this is the first year that they have been put in effect, their efficiency is far from what could be desired.

Freshmen were given talks in their sections by members of the Class Executive Committee, who put particular emphasis on the "Hello Rule." Yesterday afternoon those Sophomores who had been picked as deputies to take the lead in the enforcement of these rules were called together in a short meeting. Here too the "Hello Rule" was stressed, and the men asked to take the initiative in greeting, in order to make matters somewhat easier for the yearlings.

This rule is particularly difficult to push to a success in its first year of trial, and it was shown that on the co-operation shown by the two lower classes this year depended the entire question as to whether there would be any rules at all next fall. Comparatively few of the Juniors and Seniors have shown any active interest whatever.

Those Sophomores who have been chosen intend to make the enforcement of these rules much more efficient than heretofore. They have been chosen largely from the dormitories and fraternities since these groups are the leaders in the development of school spirit at Technology.

## OWENS TO ADDRESS COLLOQUIUM TODAY

"Commutation" will be the subject of the colloquium to be held by the Department of Electrical Engineering on Monday in Room 10-275, from 3 until 5 o'clock. This is the second of a series of three colloquia on the "Scientific Aspects of Design Problems in Large Electrical Power Apparatus."

This colloquium will be conducted by Mr. R. W. Owens of the technical staff of the Westinghouse Electric and Manufacturing Company. It will be open to members of the instructing staff, Seniors, graduate students, and members of the Junior honor group.

## BASKETBALL TEAM WILL MEET BROWN TOMORROW NIGHT IN FIRST BIG GAME OF THE SEASON

Juniors—Get Those  
Prom Nominations In!

Juniors have their last chance to nominate classmates to the Junior Prom Committee today and tomorrow. All nomination blanks must be deposited in a locked box provided for the purpose in the Information Office, Room 10-100, by 12 o'clock noon tomorrow. No nominations will be accepted after that.

All nominations must have the signatures of at least five sponsors and that of the nominee, and must be in the form approved by the Elections Committee. Five will be elected.

## Voo Doo to Have Two Offices In Walker Memorial

Musical Clubs Will Occupy the  
Present Committee Room  
In the Future

Voo Doo has been given permission by the Walker Memorial Committee to have another office on the third floor of Walker. At present it has the smallest office of any of the publications, and a recent increase in staff members has made more space absolutely necessary.

To accomplish this the Musical Clubs will move out of their present office, and will occupy what is now the Committee Room as their premises in the future. This will enable Voo Doo to have two adjacent offices.

However, this leaves no provision for a Committee Room, and such a place must be provided for in Walker. This has been done by ruling that Voo Doo can only occupy its new office until 5 o'clock in the afternoon, and after that the room will be open for the use of committees. The table and chairs now in the Committee Room will be removed to the new room, where they will be kept to one side during the day to give Voo Doo working space.

The Committee Room, which will be used by the Musical Clubs, is slightly larger than their present office so that they are to benefit by this shift. The latter is much larger than the space that Voo Doo has been using to date.

## NORM M'CLINTOCK IN LINEUP THAT WILL START GAME

Cardinal and Gray Are Slight  
Favorites to Defeat  
Invading Team

BROWN PLAYS HARD GAME

Bolstered up by the return of Norm McClintock to the fold, after he had been mourned as lost, the Cardinal and Gray quintet goes into action against Brown tomorrow night confident of gaining the victory. The invaders went down to defeat last year at the hands of practically the same outfit as will oppose them tomorrow, but this year's Brown team is supposed to be a particularly creditable outfit, and a big improvement over last year.

McClintock Returns to Squad

McClintock was a member of this fall's cross-country team, and at the end of the season was declared to be in scholastic difficulties and unable to devote the necessary time to basketball, but he has since made great strides in catching up with his work and intends to stay out the rest of the season. His return to the squad is heralded as a fortunate event, as he was one of the mainstays of last year's outfit and fitted into the team's style of play very well. Although he is suffering from a sprained ankle at present, he will probably see action tomorrow, either at center or guard.

Two other men who are slated to get into the game are Bates and Spahr, who have come up from the ranks of last year's frosh. Both played a (Continued on page 3)

## ENGINEERING NEWS COMES OUT MONDAY

Staff Banquet Will Be Held at  
"The Ole Plantation"  
Next Monday

Next Monday is the date set for the appearance of the December issue of *The Tech Engineering News*, and that evening a banquet for staff and candidates is to be held at the "Ole Plantation" on St. James Avenue. At this meeting the staff and Associate Board elections will be announced. Mr. Hartford Powell, editor of *The Youth's Companion*, is the speaker for the evening.

"Sources of Fixed Nitrogen," by Arthur E. Wells, professor of Non-Ferrous Metallurgy at the Harvard Engineering School, is the feature article of the December number. This is an economic discussion of the present and future supply of fixed nitrogen. The latest processes for obtaining commercial quantities from the mines are described.

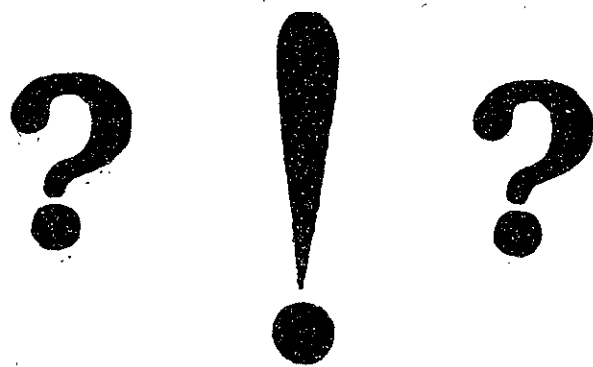
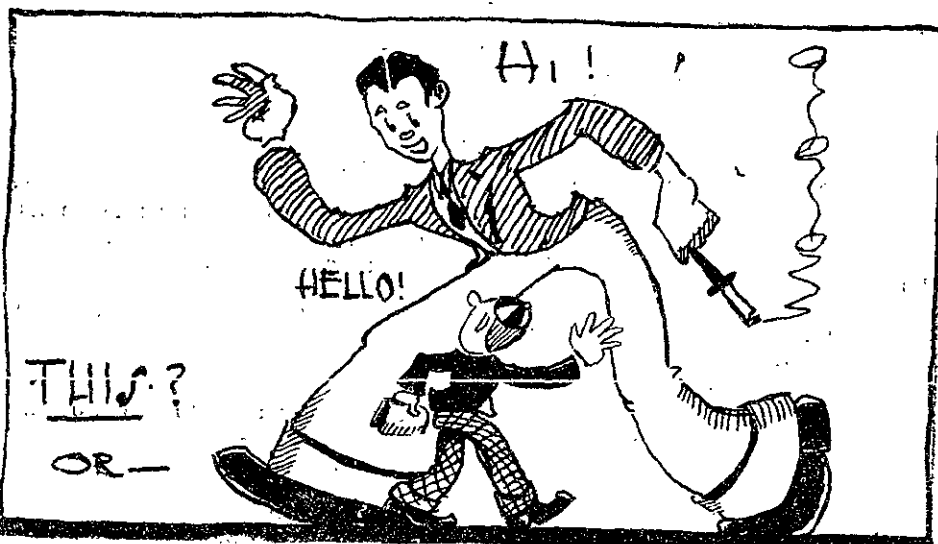
In "Industrial Health Hazards," by Dr. Hugh S. Cummings the author points out the fact that we are still fighting the same health hazards today in industry that were menacing us years ago. He emphasizes the detrimental effect of all kinds of dust and shows that this is the most cause of tuberculosis.

Other papers in this issue describe the process of making technicolor pictures and the importance of master tools in production.

## CALENDAR

- Friday, December 9  
3:00—S. A. E. Showing of Ford Films, Room 10-250  
6:30—A. C. S. Dinner, Faculty Dining Room, Walker  
8:00—A. C. S. Meeting, Main Hall Walker  
8:00—Interclass Swim Meet, University Club  
8:15—"Hairy Ape" at Rogers. (For Faculty only.)  
8:15—Hockey Game, Harvard vs. Technology, Boston Arena.  
Saturday, December 10  
8:00—Basketball Brown vs. Technology, Hangar Gym.  
Monday, December 12  
6:30—T. E. N. Banquet, The Ole Plantation, St. James Avenue.

## WAKE UP, FRESHMEN!



A Record of Continuous News Service for 46 years



Official News Organ of the Undergraduates of M. I. T.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

<b>MANAGING BOARD</b> P. E. Ruch '28.....General Manager G. I. Chatfield '28.....Editor J. A. Parks, Jr. '28.....Business Manager		<b>OFFICES OF THE TECH</b> Walker Memorial, Cambridge, Mass. News and Editorial—Room 3, Walker, Telephone Univ. 7029 Business—Room 302, Walker, Telephone Univ. 7415 Printer's Telephone—HAN cock 8387 SUBSCRIPTION PRICE, \$2.50 PER YEAR Published every Monday, Wednesday and Friday during the College year except during college vacations Entered as Second Class Matter at the Boston Post Office Member Eastern Intercollegiate Newspaper Association	
<b>ASSOCIATE BOARD</b> W. W. Young '28.....News Editor H. Rouse '29.....Features Editor J. G. Sullivan '29.....Sports Editor A. C. Pforzheimer '29.....Treasurer G. F. Palmer '29.....Circulation Manager L. C. Hamlin '29.....Advertising Manager		<b>BUSINESS DEPARTMENT</b> <b>Treasury Department</b> Assistant Treasurer K. D. Beardsley '29 <b>Staff</b> G. Smith '30 E. L. Krall '30 J. Chibas '31 D. T. Goodman '31	
<b>EDITORIAL DEPARTMENT</b> Editorial Board A. P. Morell '28 W. W. Hoppe '28 E. L. Welcyng '28 H. T. Gerry '29 F. L. McGuane '28 <b>Staff Photographers</b> C. J. LeBel G. T. Lewenberg '30 L. J. O'Malley '28		<b>Circulation Department</b> Assistant Circulation Managers D. W. Diefendorf '30 G. K. Lister '30 <b>Staff</b> J. Alkazin '31 G. Roddy '31 J. K. Minami '31	
<b>NEWS AND SPORTS DEPARTMENTS</b> <b>Night Editors</b> G. R. Tamnosian '28 R. T. Wise '28 M. Brimberg '29 W. J. Danziger '29 D. T. Houston '30 <b>News Writers</b> C. Connable '30 F. C. Fahnstock '30 <b>Sports Writers</b> P. Keough '30 L. Verveer, Jr. '30 <b>Reporters</b> F. Crotty '30 N. H. Levee '31 R. Davis '31 R. C. Moeller '31 H. B. Goetz '31 L. Seron '31 E. W. Harmon '30 G. P. Wadsworth '30 L. W. Laing '30 S. C. Westerfeld '31		<b>Advertising Department</b> Assistant Advertising Managers René Semard '28 S. L. Hallett '29 <b>Staff</b> S. A. Moss '30 H. B. Preble '30 J. Guerrieri '30 R. H. Haberstroh '30 L. Fox G. H. J. Truax '31	
In charge of this issue: Carl Connable '30			

ACTION ON THE SONG BOOK

RECENTLY we published in the Open Forum column of THE TECH statements of Doctor Rowe and Professor Emerson presenting the advantages of a "college-sing" at Technology. The writer himself stated that he had written the letter in hopes that it would excite some expression of opinion. However, up to date the expression of this opinion has been nil. In this matter the undergraduates should not be too strongly condemned, for surely they can not be expected to have interest in songs that they have never had the pleasure to enjoy.

Following the suggestion of a "college-sing" we note with extreme pleasure that the Institute Committee has appointed a body of undergraduates to collect a number of Tech songs. This is surely the first logical step that can be taken. However, we must gently warn the song committee of the grave responsibilities that they have taken upon themselves and encourage them in their undertaking. This is by no means the first time that agitation is around to collect Technology songs, nor is it the first committee that has undertaken this responsibility. In the past two years here have been a number of such committees appointed; all of them have shamefully failed. It is understood that their failure was chiefly due to complete neglect of duties when slight difficulties were encountered. The members of these committees did not completely realize their duties to the Institute when they accepted their responsibilities.

It is one of our greatest desires to see this committee succeed and publish the Technology song book that we have been awaiting so long. Perhaps after we become better acquainted with the songs the "college-sing" may be realized more easily.

Institute Library Contains Many Of The Greatest Scientific Collections

Has Total of 240,000 Volumes And Large Assortment Of Periodicals

Probably few students coming to Technology for the first time know that the Institute Library is one of the greatest scientific and technical libraries of the United States. It is not only one of the largest, but in certain subjects it has the most complete collections. Its extensive collection of bound periodical files is an outstanding example of this. The beginning student, thinking chiefly in terms of text books, probably gives little thought to periodicals. Eventually however, he is bound to discover what all research men know well, that periodical literature is of great importance because it contains the most up-to-date reports of scientific progress.

As for books other than periodicals, the Institute Library has particularly valuable collections in chemistry, physics, electrical engineering, mining, architecture, naval architecture, and marine engineering, not to mention many other fields. Some of these collections are in the Central Library and others in branch or departmental libraries.

**Dome Contains Main Stacks**  
 The great interior dome of the Central Library, inspired by the Pantheon at Rome, rises 70 feet 5 inches above the floor and is 72 feet in diameter. It is splendidly lighted from above by 32 lamps of 500 watts each. Over this dome is the outer dome of masonry, the highest point of which is 142 feet 7 inches above the ground. The dome rotunda is used for a Central Reading Room, around its circumference the book stacks are arranged in circular form. There are three tiers of steel stacks, the uppermost of which has just been installed. Their total estimated capacity is 300,000 volumes; at the present time they contain two-thirds of that number. Besides these books there are those in the depart-

mental libraries, which bring up the total in the Institute Library system to about 240,000 volumes.

The Central Library contains not only the scientific collections referred to above but also the current magazines, including some from abroad. In the open stack may be found a considerable collection of books on history, biography, travel, and standard literature including drama, poetry, essays, and some fiction; also some works on art and music. Books of a general reference nature such as encyclopedias, dictionaries and atlases, also International Critical Tables, Chemical Abstracts, and Science Abstracts may be found in the wall cases.

The Vail Collection

The Vail Collection of about 35,000 volumes on electricity and electrical engineering, originally assembled in England for a wealthy man named Dering, was purchased by the late Theodore N. Vail, for many years a member of the Corporation of M. I. T., and presented by him to the Institute. It is not maintained separately, but is merged with the other electrical books. This collection includes many rare works, some of them being presentation copies under the author's autograph. Strangely enough it includes also a number of rare books dealing with early attempts in aeronautics.

Besides the various departmental libraries, a branch library is maintained in Walker Memorial. This is a well-chosen, up-to-date library for purely recreational reading, where one may browse at will and borrow whatever suits his fancy.

In case references are found to books not in the Institute Library, it is often possible to borrow such books from another library, elsewhere in the United States, by the system known as Inter-library Loan. With all these facilities at his command it is possible for a student to obtain the loan of almost any book he may have need for in the course of his work at the Institute.

THE TECH BOOK LIST

EUROPEAN SKYWAYS

EUROPEAN SKYWAYS, by Lowell Thomas. Boston: Houghton Mifflin Company. \$5.

Welcome indeed is a chronicle of the progress of modern flying such as is embodied in Lowell Thomas's "European Skyways." It is a story which most forcefully and impressively pictures the high degree of development of the art of commercial flying in Europe.

Those who read only the newspapers get very little idea of the extent to which commercial flying is used across the sea. We are prone to believe that flying is still in the experimental stage, in spite of the fact that this country can boast of a few commercial lines and more mail routes. But in Europe flying has entered into the field of transportation with competitive strength, in many cases offering better service at rates not much in excess of those of the railroad and steamship rates.

But aside from the great significance of the book, it has much charm. The chatty, conversational tone of the author makes for light, easy reading. The descriptions of the earth from the viewpoint of a cruiser in the great atmospheric sea have an appeal which is positively thrilling; while the historical background with which the entire narrative is colored lends depth and reality to the whole picture.

F. M.

With The American College Editors

Editor's Note—The following editorial was taken from the columns of the McGill Daily, Montreal, Canada.

**COLLEGE VS. RINGLING BROTHERS**  
 We cannot always take serious notice of English criticism of American sports. It is often founded upon mere hearsay, leading to conclusions that appear amusing to American sporting people.

The Montreal "Star," however, in its column entitled "The World's Press," quotes from an article in the "London Landmark" by Alan-Henri Buckner as follows:

"The change from American football to rugby has only just begun but the increasing popularity of the movement is not to be denied. Professionalism, that bugbear of all sports, is slowly but surely killing the American game. The salaries of coaches in some of the larger universities is often in excess of £10,000 a year. This, and the huge salaries of professional players, coupled with a high scale of admission prices, has brought the game to the dimensions of a national problem."

Whatever we may think of the American (or Canadian) game, we are convinced that the game is not the "national problem" and that English rugby is not likely to supplant it yet. Games never did, and never will, constitute national problems, although games at an American university are usually taken so seriously that they nearly cease to be games.

The fact is that many universities have lowered the rugby games almost to the status of a circus. Money is reputed to talk, and by combining Mr. Buckner's statements with our own knowledge, we can make up the following table:

Income of football coach in large university.....	about \$45,000
Income of ranking professor.....	6,000
Income of average professor.....	3,000
Income of lecturer.....	1,000

The figures, of course, are rough averages.

Thus the football coach's income is over seven times as large as a ranking professor's, 15 times as large as an average professor's, and 45 times as large as a lecturer's.

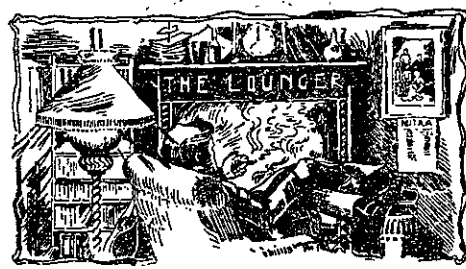
The tendency in American colleges (by American we include Canadian) is to lower the tone of their position to conform to the attitude of the sporting public, of which a good proportion are under voting age, to say nothing of intelligence. University students even yet are made to gather a certain amount of knowledge—first-year examination results show that—but with public, parents, and maybe professors, the "beau ideal" of studenthood seems to be membership on the Senior rugby team.

The short line to popularity is to take part in the series of circus performances commonly known as rugby "games," to see which the public pays enough to enlarge the arena for next year's circus.

The game of rugby is a thrilling one, it thoroughly merits interest, the rugby player serves his alma mater admirably. If it is played as a game, it is usually played cleanly.

Every feature of American or Canadian rugby that tends to professional-

(Continued on page 4)



So! Ikey has gone ahead and challenged the Lounger to a football match, and like the real challenger that he is, has chosen his own weapons first! As it is, the Lounger can't refuse the Faculty to pick his team from, first for fear of hurting the professors' feelings, and secondly because he thinks that maybe he got the best of the deal at that. While the brown-bagged bunch that Ikey is basing his hopes on may have its youth, the Lounger's All-Faculty eleven will at least have the corpulence and quickness of judgment that comes with age. So here's the Lounger's lineup:

- Post—Prof. Statistics
- LE—"Slow-motion"; Sears.....Brunette
- LT—"Sophie" Tucker.....18 carat
- LG—"Charlie" Spofford.....Data missing
- C—"Sandman" Johnston.....275 lbs.
- RG—"T-square" Smith.....3 bbls.
- RT—"Tut-tut" Haven.....Stonewall
- RE—"Profanity" Greene.....Blonde
- RH—"Doc" Tyler.....122 lbs.
- LH—"Shorty" Holmes.....4 ft. 9 1/2
- Q—"A. L. ("no graft") Russell

FB—"Eddie" Miller.....Boiler-maker  
 Sears and Greene, the Lounger's choice for ends, are the equal of any such pair in the country—provided that Sears can gather enough velocity to keep up with his blonde counterpart at the other side; they should have no trouble whatsoever in controlling the air game, and as for getting down the field, two strides should put them anywhere they knew enough to go.

As for the tackle, "Sophie" and "Tut-tut" are easily up to the necessary height and girth of the standard player. The guards, Spofford and Smith, can easily fill their spaces to capacity, and as long as not much movement is required of the guards, they should be quite contented and well able to hold their own. "Sandman" Johnston is the Lounger's one dubious choice; he would be lost if he couldn't talk, but he has the essential weight. Russell's signals could drown anybody out, Faculty or no Faculty, and if he can confuse the opposing team as much as he does the own "Triple-E" classes, that leaves nothing to be desired.

The Lounger's demon backfield—four horsemen, of course—is the real find. Tyler and Holmes are fast enough to get lost anywhere, and once the porous student line loses track of them nothing could be sweeter. They could trot side by side through any holes that Spofford, or Johnston, or Smith would open, and still leave room on either side for three or four more. The Lounger expects a lot from them.

Russell is in a class by himself. If ever there was a voice suited for quarter—or coxswain—Russell has it; for honesty and integrity no better man could be found to lead the team, and if his methods fail to gripe the student opponents, the Lounger misses his guess. All sorts of tricks are up Russell's sleeve, and once he gets the ego up, just let the brown-baggers watch their stuff. The Lounger's only fear is that he may start tutoring the referee.

And last but by no means least is the old faithful Anecdote Miller. The Lounger has never seen a fuller full-back, and whether Eddie plays the game or not, his presence will furnish

more than enough impetus to the rest of the Faculty. The Lounger would not be a bit surprised were he to find that Eddie had drawn the whole of Ikey's team off to one side to tell them the latest, while Russell led his nine remaining charges down the field like the proverbial MgSO<sub>4</sub>.7H<sub>2</sub>O. 'Nuff said. C'mon, Ikey, if your batch of near-sighted commuters still think they can stand the gaff of facing the pick of the Faculty for four bloody quarters, especially with "No-graft" at the helm.

It would seem that the Walker Memorial Committee has suddenly come out of the fog and transacted a very necessary bit of business. For days and days Voo Doo has complained that there wasn't even a third as much room for hot air as they needed in their office; putting in a forced air feed system was seriously considered, but the expense was considered more than Voo Doo was worth, so now the Committee is driving the Musical Clubs forth into the wide, wide world and letting Voo Doo loaf in two offices instead of one. Theoretically, this would allow the issues to be twice as stale as ever, but practically this couldn't be.

The Holland Society plans to present a statue of William the Silent to Rutgers' University in February. It is a duplicate of one erected in the Het Plein Square of the Hague in 1848, a creation of Lodewyk Royer. Permission had to be secured from the Dutch State, and the plaster form was destroyed after casting, to prevent duplication.

The University of Cincinnati seems to have a coming Lindbergh. One student in particular learned how to fly in one afternoon. A bearing, which burned-out at an altitude of 3,000 feet, initiated the student into the art of flying. The affair was the result of a contest, and the exact flying time was five hours and 34 minutes.

**BLUE PLATE SPECIALS**  
 40c to 75c  
 Served from 11 A. M. to 10 P. M.  
**The Esplanade Cafeteria**  
 Mass. Ave. at Beacon St.

**TWO convenient stores in which to buy your Johnston & Murphys—in the Parker House and next the Touraine.**  
 Or we should be glad to have you buy from our representative who will call with samples.  
 We sell JOHNSTON & MURPHY only SHOES  
**J. L. ESART COMPANY**  
 46 BOYLSTON ST. 58 SCHOOL ST.  
 Next Hot 1 Touraine Parker House

**DELIVERIES IN GREATER BOSTON**  
**Price List**  
 Egg \$15.75 Nut \$16.00  
 Stove \$16.25 Pea \$13.75  
**THE STETSON COAL COMPANY**  
 Est. 1836 We are distributors of the Best Coal Mined

**The Importance of Good Clothes**  
 Every day more young men are realizing the prime importance of good clothes. Scott & Company Suits and Overcoats, with their superb quality and gentlemanly air, are the choice of men who know how to dress well . . . and do.  
 Young Men's Suits and Overcoats, hand tailored in our Boston workrooms.  
**Suits \$45 to \$55**  
**Overcoats \$50 to \$65**  
 (Young Men's Dept., 2nd Floor.)  
**Scott & Company LIMITED**  
 336 to 340 Washington Street, Boston, Mass.

# M.I.T. HOCKEY SEASON OPENS TONIGHT

## Cardinal and Gray Hoopsters Out For Victory In Game With Brown

### Engineer Sextet Faces Powerful Crimson Team On Boston Arena Rink

All the thrills of former hockey seasons, the clash of steel runners on that smooth icy surface, the dull thud of players colliding with the boards, the crack of stick against puck as the rubber disk goes carroming towards the goalie, will again be felt by Institute fans as they sit in the Boston Arena this evening and watch the Beavers pit their strength against a powerful Crimson sextet.

From the present indication of things Harvard is a top-heavy favorite to open its season with a victory. The University players are fast, experienced, and pack hard shots to stop. As usual, they are bountifully supplied with substitutes and this factor alone has been responsible for many of their victories in the past. Practice alone has handicapped them since they have been on the ice for only a short time this fall.

Tacks Crosby's team is expected to make a good showing but it is doubtful if they can pin a defeat on their opponents. The Cardinal and Gray team has been practically wrecked by graduation and it was necessary for Coach Bill Stewart to make over an entirely new squad for the 1927-28 season. Crosby and Vic Duplin are the only regulars from last year, leaving four positions to be filled by new men.

#### Crosby at Center

Center ice position will be taken care of by Crosby and if he plays the type of game that he is capable of, the Crimson offense attacks should be weakened considerably. He is shifty enough on his skates to also keep the opposing defense on the alert. Vic Duplin and Dave Peene have shown some real power on the offense. Their teamwork and passing is neat and their shots are good. Duplin was one of the stars on last season's squad, while Peene, in the role of the prodigal son, has returned to the Institute after a three-year rest. He played as right wing on the Varsity team in 1924 and should be a real help to this year's outfit.

On the defense Bill Stewart has un-

### Leads Beaver Sextet In Tonight's Match



Ralph Crosby

covered some good material. George White and Dan Lucey will probably start in the defense positions. The former was a sub forward on the 1926-27 outfit but was shifted to the safety position this fall. Lucey played with the frosh last year and appears to be a real prospect. Jim Fahey will get into the game as a forward while Nock will probably have a chance on the defense.

#### Goal Weakest Position

The outstanding weakness of the team is at the goal position. The loss of Bill Richards left this position open but unfortunately there was no sub goalie on last season's team. It thus became necessary to recruit players previously inexperienced in Varsity play. At the present time there are five candidates out for this position, Phil Riley, Fred Riley, Walter Burke, Paul Keough and Arshag Jorjorian. Phil Riley appears to be the best of this group with his namesake Fred running a close second.

Harvard is well taken care of in the matter of veterans. Captain Johnny

(Continued on page 4)

### PICK SENIORS TO WIN INTERCLASS SWIMMING MEET

Will Attempt to Make It Four Straight In Annual Event At University Club

#### FROSH HAVE GOOD TEAM

Stiff competition between the Senior and freshman classes is predicted in the annual interclass swimming meet which will be held at the University Club tonight at 8 o'clock. The freshman team looks very similar to that of the present Senior class three years ago, and threaten to give some stiff competition. The Seniors have won the meet for three consecutive years.

MacKay '31 is one of the leading freshman candidates and has been doing exceptionally well in the time trials for the 440 yard free style, one of the leading events in tonight's meet. Competition is sure to be keen in this event as many came out close in the time trials that were held last night.

#### Swimming Events For Class Meet Tonight

- 50-yard free style.
- 100-yard free style.
- 440-yard free style.
- Diving.
- Relay.
- Back Stroke.
- Breast Stroke.

Jarosh '30 has been doing very well in the back stroke during the last few days and it appears as if he may walk off with this event. However, there is plenty of competition in this as well as in nearly all the other events.

Probably the greatest amount of competition comes in the diving, where there is a large number of competitors out and one man looks about as good as another. However, after the meet tonight it will be definitely decided who is the best man, and probably some material for this year's Varsity will be uncovered.

The Seniors are particularly lucky in having a large number of last year's men back again this year and from the looks of the way practice has been going they may walk off with a number of events. The result of the relay will probably hinge between the freshmen and Seniors as both of them have very good teams and it looks as if this is going to be the most interesting event of the evening. The meet is sure to be close as the Seniors are out to make it four straight.

### CHANGES PLANNED IN PRESENT GYM RULES

Probably of prime importance to gym team members is the coming meeting of Eastern gymnasium instructors at New York on December 18 for the purpose of revising this year's gym rules and fixing one or two changes that will go into effect next year.

Height of bar and horse will probably be the things decided on this year, while there has been some talk of abolishing the rope climb in favor of the long horse which is particularly adaptable to the tumblers. The rope climb has no particular use except to provide something to do and makes the meet a little more interesting to watch during the change of apparatus. Coach Pearson will represent Technology at the conference.

### Sports Desk

Speaking of Tech spirit, it would be a good idea to drop into Eddie Pung's pool room some rainy afternoon and see how the boys fraternize. Eddie has a bunch of regulars who get along quite well together, and provide about the best substitute for school spirit that Technology can offer. Just yesterday afternoon, a reporter for THE TECH, in search of a member of the basketball squad, was directed to the basement gymnasium of the aforementioned gentlemen with the advice that the basketball squad might be found there any afternoon from two till four. Sure enough, there were Allen and Brockelman, and they explained the absence of the rest of the team as being due to unavoidable attendance at classes.

### TEAM WILL BE AT FULL STRENGTH TO MORROW

(Continued from Page 1) mighty nice game against New Bedford, and are dependable in the best of basketball company. In scrimmage the last two days they have continued to show improvement, and will provide adequate reserve material for Captain Estes and Brockelman, in case McClintock holds down the center position.

#### Allen in Shape for Game

The other regulars who are almost sure to play are Allen and Reynders at the two forward positions. Allen has recovered from his knee injury that handicapped him somewhat last Saturday, and will demonstrate what he can do when in tip-top condition. Reynders, Johnson and Mock are all experienced men from last year, and will be on deck. Reynders will probably start at right forward. In addition to these men, there are Lawson and Green from last year's frosh.

#### Brown Plays Tough Game

Brown comes here fresh from a defeat at the hands of B. U. last Wednesday, but the team has the reputation of being a very difficult outfit to down, as the Terriers can well appreciate, since they pulled the game out of the fire in the last couple of minutes. Among the invading stars whose reputations have preceded them are the two Heller brothers, who made things interesting for the Engineers at Providence a year ago. The whole Brown outfit plays a hard, fast game, as they are coached by the same coach as the football team. He seems to have instilled a good basic knowledge of football into his quintet, according to reports, and there will be plenty of action in the Hangar tomorrow evening.

The game is scheduled for 8 o'clock in the Hangar and will not be run in competition with any counter-attractions, as was the case last Saturday. A large turnout is expected, and if expectations should prove in this case to be true, there will be sufficient extra bleachers on hand to accommodate the crowd, although it has very seldom been necessary to put up the temporary stands in the Hangar.

Oxford University has made 23 the age limit for men competing in athletics. This is a new ruling, and is made to encourage English athletes to enter by reducing the number of Rhodes scholars in the various sports. The new ruling eliminates ten Americans. The captain of the 1925 Dartmouth championship football team, N. R. Parker, who competed in track, field events and lacrosse, is still eligible, as he is 23. Parker has been elected junior treasurer of the Iroquois Lacrosse Club.

The Harvard Catholic Club invites all members of the Tech Catholic Club to its informal Fall Dance on Friday evening, December 9, at the Hotel Commander, Harvard Square, Cambridge. Subscriptions, \$2.50 a couple.

### VARSITY MATMEN TO MEET CAMBRIDGE Y

Continuing with their program to get into shape for the coming season, Technology's Varsity matmen will have their second practice meet next Tuesday night, in the Hangar. Coach Green's men will take on the outfit from the Cambridge "Y" for their second outside opponents.

Although the Cambridge outfit does not have all the classes and the affair will not be run off in formal style, Coach Greene believes his men will get plenty of experience from the meet and that it will improve their style by putting the team up against some new men. Cambridge is lacking in the light and heavy classes but boasts a good outfit in the 25 to 60 classes and should give the Beavers a stiff opposition in those events.


During a psychology lecture, Prof. William H. Sheldon of the University of Wisconsin said "the flapper is the hope of the race." He advised the girls to smoke and wear short skirts and free themselves intellectually if "we are to strike a death blow at established sex institutions." The Wisconsin *Daily Cardinal* gave the lecture much publicity. The Chicago and Milwaukee press then took up the story, and as a result the university received much unfavorable comment from the general public. The State W. C. T. U. demanded the dismissal of the professor. As a result of all the publicity the dean of women of the university has called the daily a "yellow sheet."


Columbia University still holds its reputation of being the largest educational institution in the country. The enrollment this year is 35,000 students.

TRY  
**FABERY'S SALTS**  
The best saline laxative  
Over 30 years on the market  
**MILLER DRUG CO.**

GRACE HORNE'S  
**Cerulean Blue**  
442-444 Stuart Street at  
Dartmouth  
*A Bit of Paris*  
with New England Cooking  
**LUNCHEON TEA DINNER**  
Tel. Kenmore 6520  
Just back of the Copley Plaza

**REAGAN, KIPP CO.**  
JEWELERS AND DIAMOND  
MERCHANTS  
162 Tremont Street  
Specializing in Gruen Watches

 **At The Copley-Plaza**  
A Special Luncheon awaits you every day  
(except Sunday) between 12 and 2—\$1.25  
Tea Dances every Wednesday and  
Saturday afternoon—4:30 to 7  
Dinner Dances Saturdays from 7 until 9  
Supper Dance every night (except Sunday)  
9 to 12:30  
Service—a la carte  
Music: Meyer Davis' Le Paradis Band  
Hostess: Mrs. Clara Harrop Burrill  
Copley Square is so easy of access  
by motor, trolley and train

 **Edgeworth**  
smoking  
is a part  
of college  
education

**Jordan Marsh Company** THE STORE FOR MEN  
A Separate Store in a Separate Building  
**Jordan Marsh Company**

—the college man's choice  
for the ideal Christmas Gift

*Scotch plaid wool*  
**lounging robe**  
**17.50**

Colorful plaids of the various Scotch  
clans—our own direct importation—  
tailored to our exacting specifications by a  
clever American maker of quality robes—a  
wise purchase for yourself or a gift of rare excel-  
lence. Other robes twelve-fifty to one hundred dollars.

SECOND FLOOR—THE STORE FOR MEN

### TECHNOLOGY MEETS CRIMSON AT ARENA

#### Beavers in For a Tough Game As Harvard Has Team of Experienced Men

(Continued from page 3)  
Chase will hold down the center ice position. On the wings Johnny Tudor and Giddens will team up. Tudor was the high scorer of the Crimson last year while Giddens, ineligible by the transfer rule last year, has been one of the sensations this year. Put these two with Chase and it is easily seen there is one of the best three-man combinations in college hockey.

Howard, also a veteran, will start with Bert Bigelow on the defense. The latter is new to the Varsity but has displayed sufficient class to be elevated to a regular position. At the goal Morrill will resume his former position. He had a merry battle with Adams for this berth in 1926 and finally won out. All in all, the defense appears to be powerful enough to stop any ordinary attack.

Unless the Engineers play a really high grade of hockey the Crimson sextet should smother them. The Harvard offense is superior to that of the Beavers; their defense is much more experienced while in the position of goal there can be practically no comparison made, since not one of the Cardinal and Gray candidates has yet been in real Varsity competition. It will require all the power of the Institute to put across one goal while Harvard, theoretically at least, should be able to tally four to five times.

The probable lineup:  
M. I. T. Position HARVARD  
Crosby (capt.) center Chase (capt.)  
Duplin left wing Tudor  
Peene right wing Giddens  
Lucey left defense Howard  
White right defense Bigelow  
P. Riley goal Morrill  
Game starts at 8:15 at Boston Arena.

**The OLE PLANTATION**  
87 St. James Ave., BOSTON  
CHICKEN, STEAK, CHOP,  
SCALLOP and HAM DINNERS  
\$1 Weekdays, 11:30 2:30; 5-9  
Sundays and Holidays, 12-9



**YOUNG MEN'S HATS**  
in exclusive and distinctive styles  
of Foreign and Domestic  
Manufacture  
**COATS**  
Agents for Burberry English  
cloth coats  
**SUITS**  
for Dress and Sports wear  
**FUR COATS**  
CAPS, GLOVES, NECKTIES  
IMPORTED GOLF JACKETS  
**Collins & Fairbanks Co.**  
383 WASHINGTON ST.  
BOSTON

**SIMPLEX**  
**WIRES AND CABLES**  
INSULATED WITH RUBBER  
PAPER OR VARNISHED  
CAMBRIC  
**SIMPLEX WIRE & CABLE CO**  
MANUFACTURERS  
201 DEVONSHIRE STREET  
BOSTON  
CHICAGO SAN FRANCISCO  
NEW YORK CLEVELAND  
JACKSONVILLE

### Thief Attempts Theft Of Overcoat at Coop

Two young men walked into the Coop Monday afternoon, casually shopped around, and finally attempted to select a muffler. While the one was looking at mufflers, the other man began to try on overcoats. Then, deciding to leave, the men walked out of the store, plus the overcoat the one was wearing. They were noticed by one of the clerks, who raised the alarm, and John O'Brien, one of the attaches, pursued them. The fellow with the overcoat ran through the Institute buildings and out into the ballfield, still pursued by O'Brien. The chase led to Memorial Drive, where O'Brien shouted for aid, and finally collared the thief with the assistance of a passerby. It was found out at the police court that the culprit was John F. Walsh of 31 Princeton street, Charlestown. He is being held by the police for the grand jury. His accomplice escaped.

### CHEMISTS TO TALK ON MILK AND RUBBER

#### A. C. S. Hold Monthly Meeting In Walker Tonight

(Continued from page 3)  
Evans, the speaker, was formerly in charge of the research work of the Goodyear Rubber Company. He is now working on the development of antioxidants which will retard the deterioration of rubber, and their applications toward the retardation of the natural oxidation of oils, soaps and similar substances.

The usual dinner preceding the meeting will be held at 6:30 in the Faculty Dining Room, Walker. This dinner is open to all, though members of the A. C. S. and of the Student Chemical Society are especially invited. Following the dinner Mr. L. M. Schreff, graduate student of M. I. T. and Harvard and authority on ancient history and civilizations, will speak on "Ancient Hindu Chemistry."

### INSTITUTE BANKERS VISIT COPLEY-PLAZA

Members of Corporation XV were the guests of the management of the Copley-Plaza Hotel on Wednesday noon at a luncheon and inspection trip arranged through the courtesy of the manager, Mr. Arthur L. Race. Following an address by the manager on the many problems confronting the large metropolitan hotel, the students were taken through the hotel, and were shown the power plant, kitchens, laundry, and other sections of the plant not open to the general public. Announcement was made during the trip that the annual trip to New York would take place during the midyear recess, from January 29 to February 1. The details of this trip have not as yet been arranged, but in previous years the men have visited various large engineering enterprises centered in New York, and also have been privileged to visit the New York Stock Exchange.

### FROSH RIFLEMEN IN REGULAR PRACTICE

Regular practice for the freshman rifle team has been running regularly under Captain Phillips at the range. Pretty fair averages are being turned in by the men and when the season gets under way some good scores ought to be run up. No regular team has been picked from the large squad as yet, but will probably be selected some time between now and the Christmas vacation. The leading men to date and the probable team are: Allen, Andreani, Carlson, Clark, Danforth, Duby, Hamilton, Jenkens, Kennedy, Kresser, Knox, Lodge, Lown, Lutz, Manter, Murray, Pierce, Strong, Schroeder, and Ziegler.

Two universities, namely Penn State and Ohio State, have their own police departments.

### NOTICES

#### CHESS MEETING

The first meeting of the Chess Club will be held tonight in East Lounge, Walker at 6 o'clock. Important business will be discussed. Students, graduates and faculty members are invited to attend.

#### TECH SHOW ORCHESTRA

There will be a futher trial for Tech Show Orchestra members in the East Lounge Walker Memorial, at 5 o'clock Monday. All those who could not attend the last trial are urged to be present.

### With The American College Editors

(Continued from page 2)  
ize the sport contributes to its degradation. The intercollegiate series this year has been played under a cloud of suspicion and hard feeling. If rugby became a game again, suspicion would disappear with the atmosphere that breeds suspicion. Too much money is put into rugby. Too much money is made out of rugby.

Professional sport is a recognized feature of modern life, but it is not the sort of feature that universities may uphold with impunity. While at college, a student can have only one vocation, if he is to do himself, the university and his country any good.

We have seen children fighting over their games, although there are nearly always other children around to laugh at them. We have seen grown athletes fighting in their games, but they have nearly always had a crowd to "boo" them. We seem to have seen university students fighting over a game, their leaders, etc., entering into a fight with them, and their superiors doing nothing about the matter.

And with regard to the scale of wages drawn up above, a university mind is supposed to stand for a more proper standard of values. It is also supposed to know the difference between play and work.—McGill Daily.

### BOAT CLUB ADMITS THIRTEEN MEMBERS

At a regular meeting of the Tech Boat Club Tuesday night twelve new members, including one honorary member were taken in. Dr. Robert H. Richards '68, Professor Emeritus of the Institute, was made an honorary member of the organization. Following the banquet, Professor Richards gave a talk on his rowing experiences.

The other men taken in at the meeting were William G. Smith '28, James G. Carr '29, John H. Booth '29, William B. Thomas '29, Philetus H. Holt '30, John F. Bennett '30, David Landen '30, Charles F. Abbot '30, Stanley C. Wells '30, Frank E. Burley '30, and Ralph W. Peters '30.

### TAU BETA PI ELECTS TWELVE MEMBERS

The following men were recently elected to the Technology Chapter of Tau Beta Pi, the honorary scholastic fraternity:

- Course I—Kenneth A. Clark '29, William J. Kirk '29, John P. Luby '29.
- Course II—John F. Reynders '29.
- Course III—Walter J. Nock '29.
- Course VI—Paul A. Johnson '29, Peter H. Kirwin '29, John C. Melcher '29.
- Course VI-A—Dennistoun W. Ver Plank '29.
- Course X—Durand Churchill, Jr., '28.
- Course XIII—Gilbert J. Ackerman '29.
- Course XVI—Harold W. Fairchild '28.

The Literary and Debating Society of McGill University recently held a debate on the question of beer versus tea. It was found, however, that this subject was too dry for their public. With this in mind they have chosen a subject for their next debate which should interest all. The subject is "Resolved that this house disapproves of women." With a large co-ed group it is doubtful if the debaters will live through the contest.

### HISTORY OF EDDIE PUNG DISCOVERED

#### Broad Training Has Made Him Close Rival of Coop Business Experts

At last all the chapters of the life history of the well-known Eddie Pung have been accumulated by the insistent efforts of a representative of THE TECH. Eddie has been interviewed on several occasions, but his reluctance in talking about himself led the diligent reporter to believe that Eddie was holding back the makings of a good story. Thereupon the reporter with an eye to uncovering some interesting scandal set out to make a "scoop."

The flourishing business which Eddie handles in the basement of Walker Memorial is due chiefly to his extensive training in numerous branches of scientific education. After the usual preliminary training in the schools of his home town 'way down east, Eddie decided to specialize, and so spent a year learning the intricacies of the science of potato growing on a farm in Aroostook County, Maine. Not content with this he turned his attention to a less strenuous profession and for a number of years his time was spent in mastering the theory of design and manufacture of artificial flowers. As a florist it is said that he could produce as beautiful a lily as ever adorned the hand of a corpse.

#### Came to Institute in 1908

In 1908 he was admitted to the Institute on the basis of his unusual preparation to pursue special work in the Biology department. This work consisted of setting up apparatus for lectures a la Messrs. Cole and Benson of the Chemistry and Physics departments respectively. His ability was soon recognized by the Institute authorities and he was made a member of the corporation in charge of the cigar counter in the old Union on Bolyston Street. There he proved his worth by rejuvenating the business and making it a profitable enterprise.

When the Institute moved to Cambridge, Eddie began his duties as general manager of the "Canteen," which was a soda stand for the Naval Training detachment stationed here. After the war he took up new quarters in his present location in Walker, and by means of his bowling alleys and pool tables has made the basement of Walker the most popular floor in the building. His thriving business at the present time is scarcely equalled by the Coop, and is said by some of his friends that his annual income runs into six figures (including decimal places).

As a native of Seal Harbor, Maine, Eddie early in life took a great liking to hunting and fishing, and one of his dearest ambitions was to be able to

duplicate the great feats of the old-timers of the town as recounted to him in "fish stories" of their younger days. To this day he still has those ambitions and spends most of his spare time either hunting or fishing. But unfortunately his scientific training has not aided him very greatly in these ventures. Although a fairly good fisherman, he is, according to one of his friends, the worst hunter in the world.

Apparently Eddie, nevertheless has wonderful success at duck hunting, for he seldom fails to come home with-out a few ducks filled with buckshot. But for some peculiar reason, usually happens that whenever he returns from a duck hunt on Sunday, he brings home only an empty bag. This seemingly unusual fact was recently explained, according to a reliable authority, when he was seen purchasing three ducks in the Boston market on a week day as he was returning from one of his most successful duck shooting trips.

### PI DELTA EPSILON HAS ANNUAL DINNER

Professor Archer T. Robinson of the English Department was the speaker at the annual Founders' Day banquet of the Technology chapter of Pi Delta Epsilon, which was held at the Engineers' Club on Tuesday evening. Several other members of the Faculty were present, including Professors Robert E. Rogers, Winward C. Prescott, Assistant Dean Harold E. Lobdell '17, and Edgar F. Anderson '27. Isaac W. Litchfield '85, was among the guests.

The M. I. T. chapter of the honorary journalistic fraternity is the third oldest chapter in the national fraternity, having been active for 17 years. At present two of its members are officers of the national organization, Dean Lobdell being Grand Secretary, and Joseph C. Patty '22, Treasurer.



**Shh-h!**  
**The Young Lady**  
Whose back is toward you, has just told the young man that she will cancel a previous date any time he will take her to—  
**The Smartest Place to Dine and Dance in Boston**  
**MUSIC BY LEO REISMAN.**  
**The New EGYPTIAN ROOM**  
of 1927  
AT HOTEL BRUNSWICK

**CASH CLEARANCE SALE**  
**MILLS LTD. & LANGROCK**  
SUITS AND TOPCOATS \$35.00 YOUR CHOICE of the HOUSE  
\$50.—\$60.—\$70. VALUES  
**MILLS, LIMITED—BOSTON**  
107 MASS. AVE., UP ONE FLIGHT  
Opp. Mass. Subway Station

**THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY**  
CAMBRIDGE  
THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY offers Courses, each of four years' duration, in Civil, Mechanical, Electrical and Aeronautical Engineering; Naval Architecture and Marine Engineering; Mining Engineering and Metallurgy and Geology; Architecture and Architectural Engineering, and Building Construction; Chemistry, Chemical Engineering and Electrochemical Engineering; Biology and Public Health and Sanitary and Municipal Engineering; Mathematics; Physics, General Science and General Engineering and in Engineering Administration. These Courses lead to the degree of Bachelor of Science.  
To be admitted to the first year class applicants must have attained the age of seventeen years, and must satisfactorily fulfill the entrance requirements in Algebra, Plane and Solid Geometry, Trigonometry, Physics, Chemistry, English, History and French or German and two units of elective subjects. Examinations are required in all subjects except Chemistry, History and the electives, the requirements for which are fulfilled by the presentation of satisfactory certificates. A division of these entrance subjects between different examination periods is permitted.  
Entrance examinations are held at the Institute in September. In June applicants will be examined by the College Entrance Examination Board in Boston, New York, Philadelphia, Chicago, and many other cities in America and Europe. A circular stating times and places is issued in advance by the College Board.  
Graduates of colleges and scientific schools of collegiate grade, and in general all applicants presenting satisfactory certificates showing work done at another college corresponding to at least one year's work at the Institute, are admitted, without examination, to such advanced standing as is warranted by their previous training.  
Graduate courses leading to the degrees of Master of Science, Master in Architecture, Doctor of Philosophy, Doctor of Science and Doctor of Public Health are also offered. Special Research Laboratories of Physical Chemistry, Organic Chemistry, Applied Chemistry, Industrial Physics, Electrical Engineering and Aeronautical Engineering have been established.  
Correspondence should be addressed to the Institute of Technology.  
**PUBLICATIONS**  
Catalogue; Illustrated Circular of General Information, Summer Session, and Graduate Study and Research; and the Report of the President and the Treasurer.  
Any of the above named publications will be mailed free on application.