

## Society of Arts Presents Lecture on Water Powers

Kenneth C. Reynolds, Professor of Hydraulics, Will Speak on Flow of Water

### FIRST LECTURE OF YEAR

Hydraulics will be the subject of the first popular science lecture conducted by the Society of Arts Sunday, December 17, at 4 o'clock in Room 10-250.

Speaking on the subject, "The Control of Water Powers—and How It is Studied in the Laboratory," Kenneth C. Reynolds, Assistant Professor of Hydraulics at the Institute, will present the lecture. The talk will be illustrated by experiments on the flow of water and by slides and motion pictures of the great engineering projects now being carried out.

**River Laboratory Will Be Open**  
After the lecture, the River Hydraulic Laboratory with models of the Cape Cod Canal, Winthrop Sea Wall, and others, will be open for inspection.

Professor Reynolds, a member of Tau Beta Pi, National Honorary Engineering Society, has conducted experiments on models to determine the action of waves and currents on engineering structures. One of these is a small model of Cape Cod Canal, which is being subjected to tests to determine the effect of a proposed lock to stop the swift tidal currents which now make navigation in the waterway difficult. Another of the experiments is conducted on a miniature sea wall to investigate the action of storm waves on the Atlantic sea coast.

**Lectures Are for Layman**  
The Society of Arts lectures are conducted annually on some subject of a popular nature. Last year Dr. D. D. Bennet gave a lecture on the cosmic ray in a manner which was understandable to the layman.

Tickets for the lectures may be secured free a week before each lecture at Room 3-107. Seats will be reserved for ticket holders until

(Continued on Page 4)

## Beaver Six Loses to Harvard, 4-1

Goodwin Scores for Engineers; Crimson Wins on Last Period Rushes

Before a noisy and enthusiastic crowd of about one hundred and fifty Technology rooters, the Beaver hockey team went down to defeat, 4-1, at the hands of a rallying Harvard sextet at the Boston Arena Tuesday evening. A three-goal final period drive gave the Crimson its first victory of the season.

During the first period, the play was chiefly around the Engineer net, with the Beavers taking an occasional long shot at the Harvard goal. After

(Continued on Page 4)

## A. S. C. E. HEARS PROF. F. K. MORRIS

Professor Frederick K. Morris of the Department of Geology addressed the second meeting of the Technology Student Chapter of the American Society of Civil Engineers. Last Wednesday evening in the Grill Room of Walker Memorial. His opinions on the future of Civil Engineering were supplemented by those of Professor Breed, Babcock, Barrows, Fife, and Camp. Numerous guests from Northeastern, Harvard and Tufts were present.

## RADIO ENGINEERS WILL MEET TODAY

A meeting of the Boston Section of the Institute of Radio Engineers will be held in Room 6-120, tonight at 8 o'clock. A paper entitled, "Synchronized Short Channel Broadcasting" will be presented by Mr. C. B. Allen of the Bell Telephone Laboratories. Preceding the meeting will be an informal dinner in the Grill Room at 8:30 o'clock.

## Ratings by Course of Class of 1934

| COURSE  | Aver. | No. Stud. | COURSE | Aver. | No. Stud. |
|---------|-------|-----------|--------|-------|-----------|
| I       | 3.17  | 29        | IX-B   | 2.88  | 8         |
| II      | 3.03  | 44        | X      | 3.37  | 61        |
| III     | 2.99  | 29        | XI     | 3.43  | 3         |
| IV (35) | 3.00  | 21        | XII    | 2.85  | 3         |
| V-A     | 3.02  | 11        | XIII   | 3.17  | 15        |
| V       | 3.55  | 15        | XIII-C | 2.72  | 11        |
| VI      | 3.14  | 38        | XIV    | 3.54  | 8         |
| VI-A    | 3.99  | 21        | XV     | 2.98  | 32        |
| VI-C    | 2.54  | 14        | XVI    | 3.50  | 25        |
| VII     | 3.03  | 18        | XVII   | 3.22  | 14        |
| VIII    | 3.87  | 33        | XVIII  | 3.81  | 7         |
| IX-A    | 3.00  | 6         |        |       |           |

### RATINGS FOR FIRST TWO YEARS

The above table shows the cumulative ratings of the class of 1934 at the end of its second year. These particular records were chosen because, at the end of the second year, all the class members with the exception of Course IV had taken nearly the same fundamental subjects. The figures above therefore yield a general comparison of the scholastic abilities of the men before the professional work in all the courses had advanced very far.

These figures should not be considered critically for they represent the investigations of only a single class. Also, both Course XVI and Course VI-A admit men on a competitive basis, although for VI-A scholastic rating is not the only competitive factor.

One conclusion from these results is that the men who enter the courses in pure science and the more theoretical engineering courses are scholastically superior to the other members of the class in their first two years at the Institute.

## Chairmen for Open House Are Chosen

Combined Professional Societies Chose Sub Committees at Meeting Wednesday

Chairmen for the Open House sub-committees were chosen at a meeting of the Combined Professional Societies last Wednesday evening. The chairmanships are as follows: Arthur B. Fox, '34, invitations; Robert C. Becker, '34, posters; Robert M. Becker, '34, publicity; Robert M. Emery, '34, signs; Wing F. Lem, '34, programs; Winold T. Reiss, '34, guides; and Hoyt P. Steele, '34, receptions.

The Combined Professional Societies as a whole are responsible for the regulation and control of the entire Open House which will be held early in May. It holds the power to control the activities of the separate sub-committees.

The separate societies comprising the Combined Professional Society will demonstrate different exhibits at the planned Open House.

## CHRISTMAS TREE IS PUT IN LOBBY

Act of T. C. A. Spreads Yuletide Cheer at Institute

Lending a cheery yuletide atmosphere to the Main Lobby, and thus to the whole Institute, is the Christmas tree placed there by T. C. A. this week, to remain there through Christmas week.

This is the fourth year that the association has performed this voluntary service, in an effort to spread a little Christmas spirit.

## RAILWAY EXPRESS OFFERS SERVICES

Only Telephone Call Necessary to Get Rid of Holiday Baggage Cares

The Railway Express Agency, with its extended facilities for transportation of baggage, has made the going home for Christmas vacation of the student a much less difficult procedure. Formerly elaborate arrangements for transporting the baggage had to be made with various expressmen and with the railroad. There was the last minute picking up of the luggage in the rooms, the tending to it at the station, the wrangling to get it redelivered at the destination.

Now, thanks to the modern transportation services, none of this difficulty is necessary. A telephone call is all that is required to have one's baggage delivered safely to one's destination without any further thought.

## MATTHEWS SAYS CHORUS WILL BE FANCY STEPPERS

African Ballet Feature Will Be Presented by Chorus of Tech Show

Langdon Matthews, noted dancing chorus coach, said last evening, "The chorus for the Tech Show is panning out very well. By the date for the show we should have a fancy stepping chorus."

Of the twenty-seven men who have tried out for the chorus, thirteen were chosen last Tuesday night at the third chorus trial. This number, with seven men from last year's chorus, will make a total of twenty. The last year men are: Fred A. Prah, '36; Edward O. Cantor, '34; Fitz R. White, '35; Warner W. Towner, '36; Hyman Gass, '36; Armas E. Jaskelainen, '34; and Ladd W. Towle, '34. One of the features of the chorus this year will be an African ballet.

The first trial for the Tech Show cast will be held next Tuesday night at seven-thirty in Walker. All men intending to try out for the cast should be present.

Professor William Greene, who so successfully coached the cast of last year's show will direct it again this year.

## COMPTON TO SPEAK AT A. G. C. DINNER

Members of Allied Courses Are Invited to Attend

President Karl T. Compton will address the first dinner meeting of the Technology chapter of the Associated General Contractors of America in Walker next Tuesday. He will speak on the general phases of building construction with respect to the viewpoint of the layman and the scientist.

In addition to Dr. Compton, Vice President Vannevar Bush, Professor Charles B. Breed, head of the Civil Engineering Department, and the staff of the Building Construction Department are the guests from the Institute. Mr. L. C. Wason, President of the Aberthaw Company of Boston, builders of the Christian Science Publishing Society Building, and Mr. B. L. Knowles of the Ward Construction Company of Worcester are the guests from the national society.

The Technology chapter of the Associated General Contractors is the Professional Society of Course XVII, but members of allied courses are invited to attend the meeting.

## THORNE-LOOMIS FOUNDATION TOUR OF EUROPE WILL BE REPEATED

Students in Course XV Offered Opportunity to Visit Foreign Industrial Plants in England and Europe for Small Expense

Students in Course XV will be afforded the opportunity to tour through Europe this summer through the cooperation of the Thorne-Loomis Foundation. For \$325, a student will be able to visit industrial plants in several European countries.

The tour will start about June 9 for England and Scotland. The group will travel in the Foundation's buses which are equipped with sleeping quarters and facilities for preparing meals.

As the tour will continue in Holland, Belgium, Germany, Poland, Czechoslovakia, Austria, Switzerland and France, students intending to go are advised to review their French and German courses.

## Use Oleic Acid in Steam Condensing

T. B. Drew and W. M. Nagle Find Important New Process for Condenser

What is believed to be the first practical method of hastening the process of condensation of steam, a process of great importance in power plants and on steamships, was announced by Thomas B. Drew and Wesley M. Nagle of the department of chemical engineering at the meeting of the American Institute of Chemical Engineers at Roanoke, Va., on December 13. The process involves the use of oleic acid, commonly found in many soaps, as a coating for the condensing surfaces.

Three years ago German engineers observed that steam would condense more rapidly on a cold surface if the process occurred in the form of drops rather than as a transparent film wetting the whole surface. The process in nature is familiar in the misting of household mirrors on a cold morning.

So superior is this drop-wise or misting form of condensation that a method of attaining it permanently would make possible a reduction of from one-third to one-half in the size of the large surface condensers employed in power plants and on steamships, and of the heating coils used in industrial stills, and evaporators.

In the course of research carried on by Drew and Nagle at Technology it was found that washing with soap sometimes conferred drop-producing ability on copper and brass surfaces. Starting from these facts, the two investigators discovered that free fatty acids, such as oleic and stearic acid, which are commonly present in many soaps, were the causative agents. A mere trace of oleic acid on a surface of copper, brass, nickel, monel metal, or stainless steel is found sufficient to produce drop-wise condensation on these metals, whether rough or smooth. Furthermore, so far as has been determined, drastic treatment, such as grinding away the surface, must be used in order to destroy the drop-forming property conferred by the oleic acid. Many oily substances produce temporary drop-wise condensation, but most of them are readily washed off metals by water under the conditions encountered in a condenser.

## INSTALL NEW MEN IN GRIDIRON CLUB

Skits Presented by Initiates on Institute Life

At a meeting and dinner of the Gridiron Club held yesterday evening in the Grill Room of Walker Memorial, eight new members were initiated into the organization. The initiates were required to present short skits on Institute happenings and incidents which are not permissible for publication for several reasons.

The Gridiron Club is an organization formed early last spring to replace the abandoned chapter of the Pi Delta Epsilon, and is composed of prominent members of the various Institute publications.

## Musical Clubs to Offer Christmas Concert Tonight

Program by Orchestra and Glee Club to be Followed With Dance

EXPECT 300 COUPLES

The Combined Musical Clubs will present its annual Christmas Concert tonight from 8:30 until 2:00 tonight, in the Main Hall of Walker Memorial. A varied program presented by the Banjo Club, Glee Club, and the M. I. T. Orchestra will be followed by a dance with music by Don Paul's Orchestra of the Yankee Network.

To decorate the hall, about five thousand cotton balls will be hung from the ceiling to give the effect of its being lowered. Christmas trees placed in each colonnade will be lighted by special lamps, and multi-colored lights will be played through the cotton balls.

**George Peterson Featured**  
Setting a precedent in featuring a member of the club as a soloist, this year's concert is presenting George Peterson, '35, of the M. I. T. Orchestra in a violin solo. As an outside soloist, Merton S. Neill will play the xylophone, accompanied by W. Weston at the piano.

In the past the concert has proved to be one of the foremost social occasions of the year at the Institute. About three hundred couples are expected to attend the musical program and dance.

The following is the complete program of the concert:

- (1) Banjo Club  
Pezales (march).....A. Lithgow  
Valse Pathetique.....M. L. Lake  
Con. Arno.....P. Beaumont
- (2) Glee Club  
The Jolly Roger.....Robertson  
The Old Woman.....Robertson  
Eight Bells.....arr. by Bartholomew  
Away To Rio.....arr. by Bartholomew
- (3) Xylophone Solo  
Merton S. Neill.....acc. by W. Weston
- (4) M. I. T. Orchestra  
Hungarian Dance No. V.....Brams  
Lost Chord.....Sullivan  
Coronet Solo by F. E. Bliss
- (5) Violin Solo by George Peterson  
"Rose Marie".....acc. by W. Weston
- (6) Glee Club  
Stein Song  
Take Me Back to Tech

## Commuters Hold Masquerade Ball

New Clubroom Will be Opened for Guests' Inspection at the Dance

Tickets for the Commuters' Association Masquerade Ball and New Year's Party will be on sale in the Main Lobby after next Monday. There will be table reservations available for sixty couples at \$2.00 each.

**New Lounge Will Be Open**  
A new lunch and reading room, which is being prepared for the Commuters in the basement of Walker Memorial, will be open for general inspection the evening of the ball. The room, previously a pool and billiard room, will be divided by draperies into two portions. In one will be tables and drinking fountains to accommodate commuters at lunch time, and in the other will be study and reading tables, bookcases with many volumes, from the Walker Library, a radio, and a phonograph.

## FOREIGN STUDENTS WILL HEAR ROGERS

Professor Robert E. Rogers will be the speaker at the bi-weekly meeting of the International Student Club to be held Sunday in North Hall from 5 to 7.

All foreign students are welcome to attend this meeting. Price of the supper is 35c.

## TECH BOAT CLUB TO HOLD DANCE

A scavenger hunt will feature the party and dance of the Technology Boat Club at the boathouse Saturday evening. The hunt will start at 8:30 o'clock and will be followed by dancing.

Crew Coach William B. Haines will be present at the affair, which is only for members of the Boat Club and their guests. Refreshments will be served.

This is the first time the boathouse has been used for an affair of this nature.

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Business—Room 302, Walker
Telephone, University 7415
Printer's Telephone, Liberty 3355

SUBSCRIPTION, \$1.50 Per Year

Published every Tues. and Fri.
during the College year, except
during College vacation
Entered as Second Class Matter at the
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Member Eastern Intercollegiate
Newspaper Association

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R. J. Marks, '36; D. J. Hill, '37

THE GREATEST GOOD FOR THE GREATEST NUMBER

IN the interest of the commuters the Institute has found it necessary to remove the pool and billiard tables from the basement of Walker. This is in response to a request by the commuters for a common meeting place. It is hoped that besides providing a place for the men to eat at noon time, the use of the room will create a closer connection between the commuter and the rest of the undergraduate body. It is felt that the commuters are not proportionately represented in the undergraduate organizations partly because of the limited contacts of those who live away from the Institute.

Since the pool and billiard room was well patronized, there doubtlessly will occur many objections to the new arrangement. It is unfortunate that it should be necessary for the interests of one group to be given preference to those of another, but the necessity arises from the crowded conditions in Walker. Under the present system only those activities which benefit the greatest number of students are able to obtain space in the building. The demands of a large group must necessarily be given preference to those of a small group. The Walker Memorial committee recently removed one of the three remaining handball courts to make room for a new office for Technique and the Tech Show on the grounds that they were accommodating a greater number by the change.

It is becoming increasingly evident that the space in Walker is entirely inadequate. The remaining handball courts will be the next to go.

Unless additional facilities are supplied by the Institute the building will be entirely occupied by offices. For those who are not completely addicted to "brown bagging," pastimes, such as billiards, bowling, and handball have become an important means of recreation. A further contraction of these facilities can result only in adding to the monotony of Institute life.

DOWN THE FACTORY A LITTLE FURTHER

DURING the period from 1922 to 1930 a debating club existed at Technology. The teams the club put out were generally rather good. Of course the team's ability varied from year to year, but in 1930, the last year of its existence, its record was excellent. The next year the club died out, dazzled by its own brilliance.

Ordinarily, being dazzled by one's own brilliance is an insufficient reason for dying, especially for a debating society. Debating gives one a facile tongue and acquaints one with the customs of public speaking. A member of a team soon acquires that verbal agility and poise which is so necessary in modern life. He also becomes able to arrange his thoughts logically, and express them clearly.

Therefore we appreciatively note that a group of freshmen have organized a new society, their purpose being to conduct debates and discussions. But as the publicity invited both upper and lower classmen to join, we wonder why only freshmen appeared at the first meetings. We suppose the upperclassmen have no time, but then there are so many things the upperclassmen have no time for.

A debating club, with support from the entire student body would help a great deal in suppressing that narrowing aspect of the Institute at which the world likes to rail.

VULGARITY

THERE is a certain group at Technology which has the quaint notion that the proper way to cheer a team is to get into a huddle and then sing out some long string of assorted obscenities. And if anyone dares criticize he is promptly called a prude.

Not that it is very important. No one really cares what our he men say but the practice is vulgar. The gentlemen could find some less crude way of expressing their enthusiasm.



No. Finite Limit

Lounger sub two has proffered the subsequent ditty, offered for our gentle reader's delectation. We call it Madness.

How nice to think that stars erratical
Revolve in orbits mathematical.
And that the fiddle's thrilling note
Is measured frequency, I quote.
And Life, which so perplexing seems,
Is chromosomes, and wand'ring genes.
True, Science is a wondrous thing,
But before you will its praises sing,
Won't you please explain me why
I'm so unnerved by a look in your eye?

Sure that last line shouldn't read,
"A sock in the eye," old man?

Home Talent

While we were investigating the habitat of one of those queer, shy, congenial creatures, who peer at the passer-by in Building Two from behind a tangle of matted Freshman Themes, Greater Conceptions and Promethean Defiance, we came on a curious example of that impotence which the mythically omniscient Tech professor sometimes exhibits.

In came the English Department stenographer carrying a large loaded coffee pot. In came the head of the English Department followed by Mr. Woodbury, laden with a vindictive air, a light bulb, and an electric hot-plate.

Without preliminaries, a place was cleared, the hot plate connected. It glowed a virtuous red. The coffee pot was placed thereon, where it subsequently simmered complacently emitting a seductive odor.

In the meantime, Mr. Woodbury attacked the fusebox in the corner, which connects to the rest of the department, armed only with a determined look and the light bulb. Somewhere the hot plate had blown a fuse.

He fiddled. We fidgeted. Professor Pearson looked nervous. The silence grew tense. Mr. Woodbury went deeper and deeper into the fuse box, pausing occasionally to say, "No, that's not it." Professor Pearson paced the floor. We expected the explosion at any moment.

The fuse box remained ominously quiet, but all flinched at every footfall in the corridor. Suddenly the Chief picked up the telephone, very quietly. "Hello," he said. "Let me have the Electrician."—Hello? Will

RIPLEY PRESENTS HUMAN ODDITIES

Twenty-five Human Freaks Now Appearing in Odditorium

Twenty-five living, human oddities and many inanimate curiosities are included in Ripley's "Believe It or Not" exhibition which is now being held in Horticultural Hall. It will continue for at least another week, the proceeds being used for Christmas charity. The exhibit was one of the features of the Chicago World's fair, and enjoyed much popularity on the Midway last summer. Included in the human oddities to be seen is Freda Pushnik, a little girl who was born without arms and legs, but who has learned to read and write despite this disability. On interviewing this young lady, we found a shy person, unaffected by being an object of curiosity, and extremely well read.

Other aberrations of nature at the exhibit are: Lorullo, the man with a revolving head; Blystone, the man who writes thousands of letters on a grain of rice; Bowers, a man who has learned to speak without vocal cords or any mechanical device, and Earl Hall, who exhales smoke through a hole in his back. There is also Betty Williams, the Georgia girl with four legs and three arms; an anatomical paradox who can dislocate any bone in his body at will, and who has no stomach. Another gentleman, without arms, shaves himself, and throws knives with his feet at a brave young lady.

The show is not, as you might expect, of the same caliber as a circus side show. It is a most interesting collection of some of the people who have appeared in "Believe It or Not," and is intelligently presented, not by a sideshow "barker" but by capable gentlemen in a cultured manner. It is well worth seeing.

W. M. N.

you please come up and fix a fuse in Building Two? Thank you."

The stenographer decided the coffee was done to its ultimate perfection and exited with the steaming pot, followed by the rest of the retinue, including Mr. Woodbury, who wore that look of subtle exasperation which denotes a thwarted ability on the eve of great achievement.

OPEN FORUM

To the Editor of THE TECH:

Having just returned from the Harvard-Tech hockey game, I feel that some comment is in order. Much credit is due to the fine showing of the team and to the large number of students who came to cheer on the players. Support is an important factor in spurring a team to victory.

It has always been my belief that M. I. T. is one of the finest schools in the country, not only in scholarship but also in good fellowship. After tonight's showing at the arena I begin to wonder. What kind of opinion must Harvard have of our Cheers? G—d—s and the like are not the kinds of cheering to be expected from gentlemen. I am a saint and at times profanity helps me in letting off steam. Swearing has its place, however, and in the future I suggest that an attempt be made to act as gentlemen and not as rowdies.

Let us give the teams of Technology our support in a manner befitting the school we hail as Alma Mater.

DAVID D. KNOX, '33

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# CAGERS EDGE ALUMNI BY 40-35

## Basketball Team Wins First Game by Close Margin

Alumni Lead for Most of Game But Tire Late in the Last Quarter

### O'BRIEN LEADS SCORING

In a close and well-fought game replete with thrills the Technology varsity basketball team defeated the Alumni 40-35 last night in the Hangar Gym. Captain O'Brien of the varsity was the high scorer of the evening, accounting for seventeen of the varsity's points, while Fred Feustel, '33, led the Alumni with twelve.

At the very beginning of the game O'Brien showed that he intended to score heavily by taking the tap-off from Bob McIver, turning around, and sinking a perfect 'swisher' from considerably outside the foul line. From then on the game saw-sawed back and forth until in the middle of the half, the Alumni were ahead by several points. The varsity, by means of spectacular long shots, managed to slowly creep up until at the end of the first half the Alumni were leading 21-20.

### Varsity Makes Comeback

O'Brien started out the second half in the same manner as the first by taking the ball on the tap-off and sinking a long shot. But this did not disturb the Alumni, who promptly, by a great exhibition of team-work and good defensive playing ran up the score until they were leading by a good margin. For a time the scoring slackened, and then the varsity, led by Captain O'Brien, started a desperate comeback which was not ended until a few minutes from the end of the contest. Then they went into the lead which they maintained until the end of the game.

The Alumni played the better basketball all through the game, but their lack of condition, coupled with the fact that most of them had not played in some time, led to their downfall in the closing minutes. They had only six men in their team, and the lack of any other substitutes did not help them any. Nevertheless, Lawson and Feustel made several beautiful shots, while Lawson and Sysko were superb on the defense.

| M. I. T. VARSITY |      |      |      |
|------------------|------|------|------|
|                  | Gls. | Fts. | Pts. |
| E. O'Brien, r.f. | 9    | 1    | 17   |
| Thornton, l.f.   | 4    | 3    | 0    |
| F. O'Brien, l.f. | 0    | 0    | 0    |
| McIver, c.       | 1    | 0    | 2    |
| Murphy, c.       | 1    | 0    | 2    |
| Kennedy, r.g.    | 3    | 0    | 6    |
| Lawrence, l.g.   | 2    | 0    | 4    |
| Garth, l.g.      | 1    | 0    | 2    |
| Deno, l.g.       | 0    | 0    | 0    |
| Totals           | 19   | 2    | 40   |
| M. I. T. ALUMNI  |      |      |      |
|                  | Gls. | Fts. | Pts. |
| Harrison, r.f.   | 4    | 1    | 9    |
| Coffey, r.f.     | 4    | 0    | 0    |
| Feustel, l.f.    | 5    | 2    | 12   |
| Johnson, c.      | 2    | 0    | 4    |
| Sysko, r.g.      | 0    | 0    | 0    |
| Lawson, l.g.     | 4    | 1    | 8    |
| Totals           | 15   | 3    | 35   |

## BOXERS USHER IN SEASON TONIGHT AGAINST HARVARD

Wetherill, Carey, Gaughan In Feature Bouts Against Harvard Favorites

Technology will usher in its boxing season tonight when Captain Proctor Wetherill will lead a well conditioned team against a highly touted Harvard squad. The bouts are scheduled for eight o'clock in the Hangar Gym.

Since there are over thirty men out for the varsity team, and over twenty-five men out for the freshman team, the A. A. Council decided that such a great interest in boxing warranted the holding of the first meet here, instead of at the Harvard Gym as is customary. In all probability tonight will be witnessed as colorful a gathering as has ever assembled in the Hangar Gym to watch a boxing match. The interest in the Harvard team also promises a large gathering of Harvard rooters to be present.

The feature bout of the evening will be between Jack Carey, last year's varsity captain, and Harvard's popular Phil Hines. Last year Hines fought in the 155 lb. class, but has brought his weight down to 145 lbs. this year to be able to meet Carey.

The bouts will consist of three two minute rounds with one minute rest intervals. Jerry Moore, prominent Hub sportsman, will act as referee. He will be assisted by two appointees of Dan Kelly, the State Boxing Commissioner.

## Leads Hoop Team to Victory over Alumni



EUGENE O. 'BRIEN, '34 Varsity Basketball Captain

## Grapplers Hold Final Tryouts

Team Faces Harvard Tomorrow; Coach Ricks Confident of Victory

Final try-outs for the Harvard wrestling meet next Saturday took place last night in the Hangar gym with Coach Jay Ricks refereeing the matches. Coach Ricks declined to make any comments on the team but seemed confident that the fighters would show up well. Four of the contestants, Clark, Boyan, Friedman, and Graham, are taking part on the varsity for the first time, the others having fought before.

Because of the scarcity of men for the Jayvee team, there will be no regular matches with Harvard, but the members will hold informal bouts with the Harvard men. The team expects to elect a captain tonight.

The varsity line-up for tomorrow's meet is as follows:  
118 lb., Clark; 126 lb., Marderosian; 135 lb., Shepherd; 145 lb., Boyan; 155 lb., Isbister; 165 lb., Poole; 175 lb., Friedman, and heavy, Graham.

The freshman line-up is as follows:  
118 lb., Noodleman; 126 lb., Bartholomew; 135 lb., Testa; 145 lb., Webb; 155 lb., Heal; 165 lb., Rundlet; 175 lb., Marsh, and heavy, Cestoni.

## RIFLEMEN LOSE TWICE TO DATE

In the three complete matches to date, the Technology gunmen have met defeat twice and have come out on top once. The two defeats were at the hands of the Marines from the Charlestown Navy Yard and by the Garden City Rifle Club, the range record being broken in both meets. The victory was at the expense of the Y-D Club by a comfortable margin. The only postal score match to date has been with the University of Virginia and is still in progress. Captain Willie Foote and his men are practicing hard for the meet with Lowell Textile next week.

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Authorized and approved literature on Christian Science may be read, borrowed or purchased.

## Varsity Swimmers Meet Bowdoin in Opener Tomorrow

Freshmen Begin Season at Same Time Against Harvard Yearling Squad

### LINE-UPS ANNOUNCED

With the varsity meeting the Bowdoin team at the University Club pool, and the yearlings traveling to Harvard to swim against the Crimson freshmen, Technology's swimming forces begin the 1933-34 season tomorrow afternoon.

Not much is known about the Bowdoin natators, except that most of last year's men are ineligible for this year's team. The Engineers, on the other hand, lost only two men from last season's team. Coach Untersee has made many changes with the varsity, the most important being the entering of Captain Vaughan in the 220 yard free-style as well as the 440, his regular event with Finlayson. Coach Untersee may also call upon Vaughan in the free-style relay.

**Freshmen Face Harvard**  
The yearlings, under Coach Sherwood Brown, have developed a fairly well-balanced team, built around Cleon Dodge, sensation of the Rutgers Prep team. According to Coach Brown, the team has very good chances of defeating the Crimson natators in their opening meet tomorrow.

The 50 yard entrants will be Dodge and Rutherford, with McClure and Goldsmith in the 100 yard breast-stroke. As yet, Burnett is the only man chosen in the 200 yard free-style, while the divers are Rogers, Kron, and Heywood. Heywood may be unable to compete because of an ankle injury. Dakin and Fischel will swim the 100 yard back-stroke for the Engineers, with Dodge and Bliss in the 100 yard free-style. The medley relay will consist of Pearson in the breast-stroke, Fischel in the back-stroke, and either Bliss or Burnett in the free-style. The free-style relay will be picked from Heywood, Dakin, Dodge, Rutherford, and Bliss.

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## LIBERAL CLUB TO MEET ON TUESDAY

R. O. T. C. will be the topic for discussion at the meeting of the Liberal Club to be held Tuesday, December 21, at 5 o'clock in Room 4-231. The officers of the club have issued an invitation to all students interested in the question to attend the meeting and participate in the discussion.

## EXHIBITION OPENS GYMNASTS' SEASON

As a means of getting in condition for the coming season, the Technology gym team gave an exhibition at the Sargent School of Physical Education last night. This has developed into an annual event in conjunction with the regular scheduled inter-class meet at the Sargent School. The team's exhibition followed the girls' event and was followed by the serving of refreshments.

## Christmas Cards

This year we are featuring a set of real **TECHNOLOGY CARDS.**

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CALENDAR

**Friday, December 15**  
 3:00—Placement Lecture, Room 5-330.  
 6:30—Boston Section of Institute of Radio Engineers' Informal Dinner, Grill Room, Walker Memorial.  
 8:00—Institute of Radio Engineers' Meeting, Room 6-120.  
 8:00—Boxing: Technology versus Harvard, Hangar Gym.  
 8:00—Hockey: Technology versus Brown, Providence.  
 8:30—Combined Musical Clubs Concert and Dance, Main Hall, Walker Memorial.

**Saturday, December 16**  
 2:00—Aristocrats Rehearsal, North Hall, Walker Memorial.  
 3:30—Swimming: Technology versus Bowdoin, University Club Pool.

**Sunday, December 17**  
 4:00—Society of Arts Popular Science Lecture, Room 10-250.

**Monday, December 18**  
 5:00—Dorm Dinner Club Dinner, Grill Room, Walker Memorial.

**Tuesday, December 19**  
 5:00—Banjo Club Rehearsal, East Lounge, Walker Memorial.  
 5:00—Associated General Contractors of America Dinner, Faculty Dining Room, Walker Memorial.  
 6:30—Burton Dinner Club Dinner, Grill Room, Walker Memorial.  
 7:00—Tech Show Rehearsal, Walker Gym.  
 7:00—Graduate Dance Band Rehearsal, East Lounge, Walker Memorial.  
 7:15—Sigma Chi Fraternity Basketball Practice, Hangar Gym.

REYNOLDS TO SPEAK TO SOCIETY OF ARTS

(Continued from Page 1)  
 3:55 o'clock, when persons without tickets will be admitted to the capacity of Room 10-250 until four o'clock.  
 Other lectures this year will be

"The Romance of Textile Engineering" by Edward R. Schwarz, Professor of Textile Engineering, on January 14; "Sound and Silence" by Philip McC. Morse, Professor of Physics, on February 11; and "Oil, the Black Gold of the Twentieth Century" by Professor Horace T. Mann, Professor of Petroleum Engineering, on March 11.

HARVARD VICTORIOUS, 4-1, OVER BEAVER SIX

(Continued from Page 1)

Milliken had successfully turned aside several hard shots by the Crimson offense, Beale, first line center, managed to break through the Engineer defense and drove the puck into the net.

Despite this score Captain Milliken had nearly three times as many saves as DeGive in this period, making several spectacular ones after Beale had counted.

Goodwin Scores for Tech

Herb Goodwin scored Technology's only tally of the game midway through the second period, when he picked up a loose puck in front of the Crimson net, carried it in close, and then suddenly shot it by the goalie. Thereafter the defense men of both teams, checking hard, broke up most of their opponents' attacks until the period ended, preventing any further scoring.

ALPHA CHI SIGMA TO INITIATE MEN

Honorary Chemical Society to Hold Initiation and Banquet

Alpha Chi Sigma, the honorary chemical society, will hold its formal initiation Saturday afternoon in buildings 2 and 4. Following the meeting there will be a banquet at the Hotel Commander in Cambridge at 6:30. Professor Frederick K. Morris of the Geology department will speak on the topic, "Are the rocks alive?"  
 Six upperclassmen will be made members of the fraternity at this

Graduate House Holds Last Tea

Invite Many Prominent Members of Administration and Faculty

Dr. Avery A. Ashdown and his graduate house committee have completed plans for the second graduate house tea to be held next Sunday afternoon from 4:00 until 6:00 o'clock, it was announced yesterday. This tea will be the last one held by the graduates this year.

A large number of prominent members of the faculty and administration have been invited to attend. It is expected that many of the house residents will take advantage of this time to invite friends to inspect the new graduate house.

They were initiated informally at a meeting Wednesday. The pledges are: Frederick A. Bickford, G; Henry J. Ogorzaly, '35; Brooks S. Morgan, '35; James W. Libby, Jr., '35; Harry G. Scowcraft, '35; and Harold E. Thayer, '34.

I'm afraid my play-writing efforts have been terribly misunderstood.  
 —Mae West.

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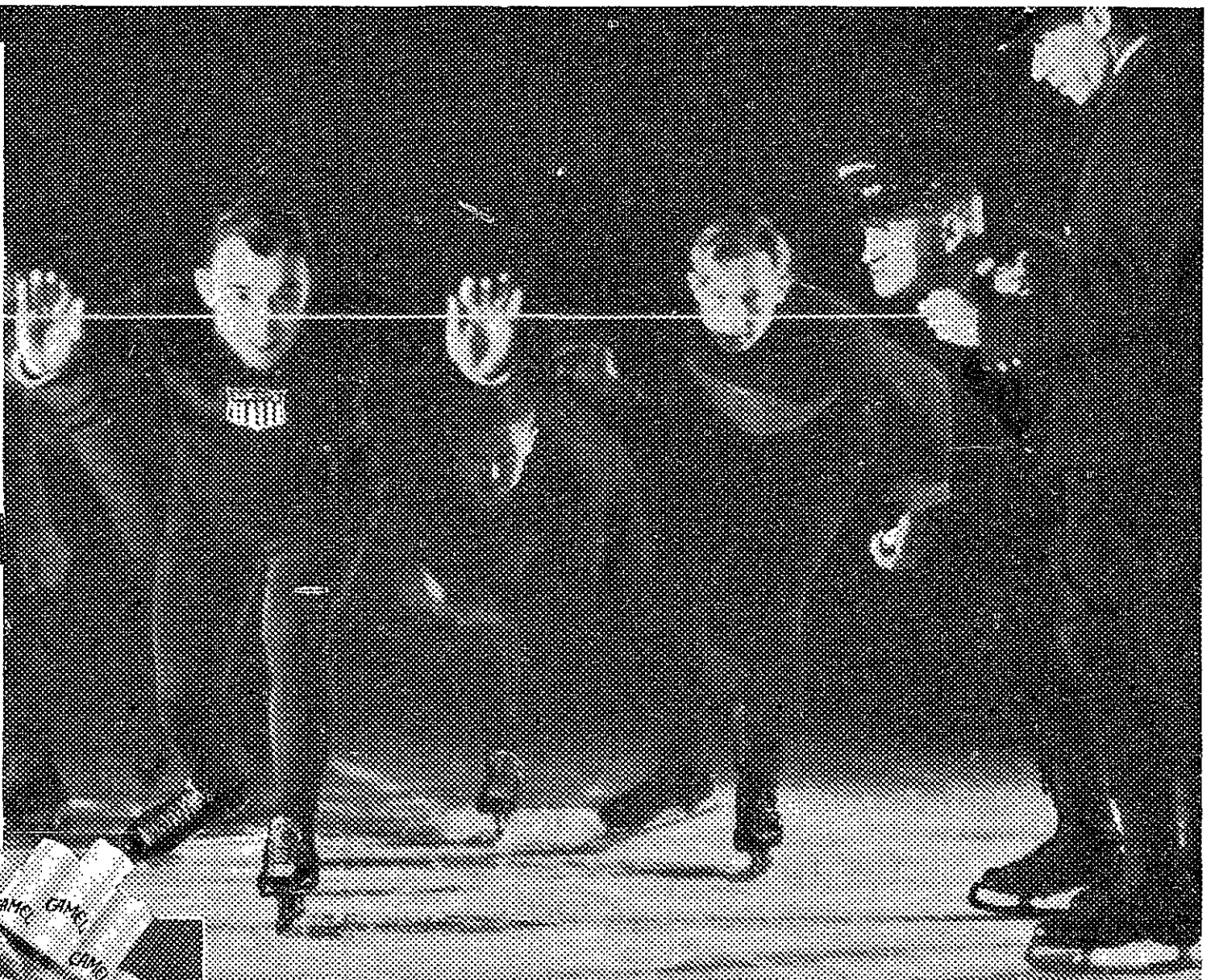
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(At Right)—Again Jaffee makes a thrilling finish as he speeds to victory! Winner of 1,000 medals and trophies, including three Olympic Skating Championships, Jaffee has brought the highest skating honors to the U.S.A. Asked recently if he was a steady smoker, Jaffee said, "Yes—but that goes for Camels only. I have to keep my wind, you know, and healthy nerves."



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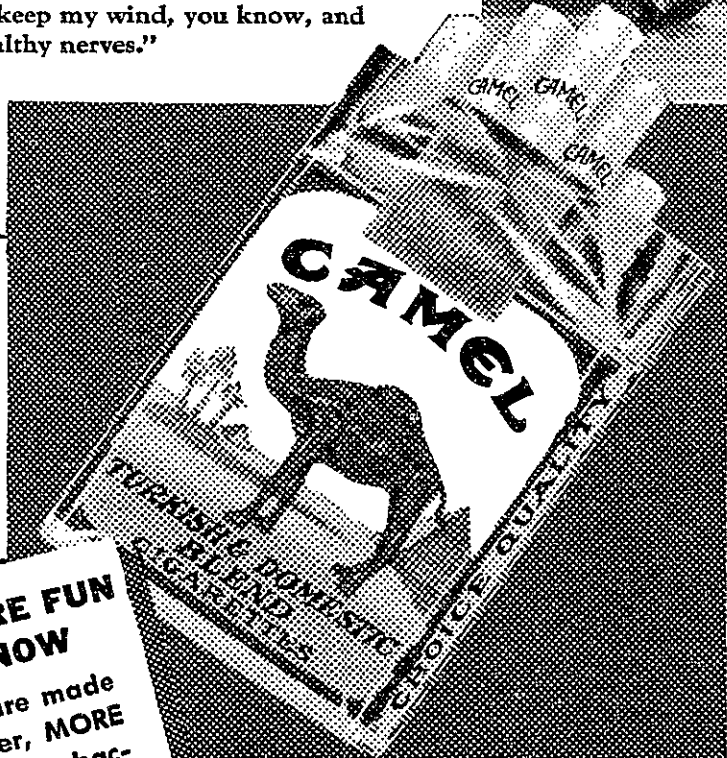
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