

## Former Professor Robert H. Smith Died Yesterday

Was Professor Emeritus in the  
Mechanical Engineering  
Department

SERVED FOR 47 YEARS

Robert Henry Smith, professor emeritus of Technology and for 47 years a member of the staff of the department of mechanical engineering, died at his home in Watertown early yesterday. He was 71 years old.

Funeral services will be held at his home at 2 o'clock on Wednesday afternoon. The Rev. Dr. Ernest S. Meredith will officiate, and interment will take place at Forest Hills Cemetery.

Born on February 21, 1862, at Cowansville in the Providence of Quebec, Professor Smith was graduated from Granby Academy in 1879, after which he took special courses at the Institute and at Harvard. In 1923 he was awarded the honorary degree of master of science by Rhode Island State College.

Had Many Accomplishments

Professor Smith joined the Institute staff in 1886 as an assistant in the school of mechanic arts. A year later he was made instructor in machine tool work, and subsequent promotions led to his appointment in 1931 as professor of machine construction. He retired from the Institute staff in July, 1932, with the title of professor emeritus. Professor Smith had been an honorary member of the Technology Alumni Association since 1928.

He is survived by his wife, Mrs. Helen Smith, together with two sons, Waldron, a junior at Tufts College, and Prescott, a junior at Technology. Professor Smith was one of the pioneers in the application of scientific methods to the teaching of practical arts. He was the author of several texts relating to this field, including "Elements of Machine Work," "Principles of Machine Work," and "Advanced Machine Work."

He was a member of the board of directors of the Mercantile Library Association, the Faculty Club of Technology and the Unitarian Club of Watertown. He was a member of

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## HI-Y DELEGATION TOURS INSTITUTE

Large Group Shown Through  
Buildings by Students

A delegation of about 250 members of the Hi-Y Clubs, from all parts of New England, made a tour through the Institute buildings last Saturday afternoon.

The tour was conducted by Mr. William C. Jackson, assisted by a group of Technology students under the leadership of Mr. Henry D. Humphreys, '34. The group, chaperoned by Mr. Eric Johnson, arrived at the Main Lobby at two o'clock, where they were met by their hosts and guided in a body through the buildings.

The visitors were first shown the Steam Laboratory, the Materials Testing Laboratory, and the Pratt Naval Museum, on the first floor; next, the Naval Model Cutting Room, the Building Construction Room, and the Civil Drafting Room, on the second floor; then, the Civil Engineering Museum, the Welding Laboratory, the Machine Tool Laboratory, the Textile Laboratory, the Network Analyzer, and the Differential Analyzer, on the third floor; next, the Biology Laboratories, on the fourth floor, and finally the Main Library.

The group returned through the freshman Physics Laboratory, and on the same floor saw the Organic Chemistry Laboratory and the Research Rooms. Coming downstairs, the Hi-Y boys were guided through the Analytical Chemistry Laboratory on the third floor, and returning to the first floor were shown the Industrial Chemistry Laboratory, then, passing through the Eastman Building, visited the Spectroscopy Laboratory, the Mining Laboratory, the Dynamic Laboratory, the River Hydraulics, the Aeronautical Laboratory, and were finally brought back to the Main Lobby.

## Professor Emeritus Who Died Yesterday



PROF. ROBERT H. SMITH  
Dept. of Mechanical Engineering

## Christmas Dance Tickets on Sale

Ceiling of Main Hall Will be  
Lowered With Aid of  
Decorations

The lowering of the ceiling of the Ball Room of Walker Memorial will be a feature of the decorations at the concert and dance to be held by the Combined Musical Clubs 8:30, Friday, December 15, in Walker Memorial.

The concert which will last an hour and a half includes selections on the xylophone by Merton Neill, violin solos by George A. Peterson, '35, and contributions by the Glee and Banjo clubs and the orchestra. The concert will be followed by a dance continuing until 2 o'clock with music by Don Paul's orchestra. Don Paul broadcasts regularly on the Yankee Network.

Tickets for the event will be on sale in the Main Lobby at the price of two dollars, a reduction of fifty cents from last year. As in former years the dance will be formal.

## DEBATING SOCIETY MEETS TOMORROW

Will Hold Election of Officers  
and Group Discussion

The newly-formed M. I. T. Debating Society will hold a meeting Wednesday in Room 2-330, for the purpose of electing officers under the provisions of its new constitution.

At the same meeting, a discussion will be conducted on the subject: "Resolved, that the action of Governor Rolph in regard to the San Jose lynching is to be condemned." New members will be welcome at this meeting.

The society was recently organized for the purpose of creating and preserving interest in debating and discussion at Technology. It is proposed that group discussions, similar to the one to be held tomorrow, will be conducted regularly, so that members may become proficient in the forensic art. After a number of these discussions have been held, it will be possible to choose a team and represent Technology in debates with other colleges. Many challenges have already been received for such outside debates.

The society is under the supervision of Mr. Arthur C. Watson, of the English Department.

## MYSTERY COIN IS T. E. N. EXHIBIT

Following the precedent set when the last issue of T. E. N. was published, a new mystery contest will be held at the T. E. N. stand in the Main Lobby Wednesday. This time a perpetually spinning coin will be shown. The piece of revolving metal is placed on a watch-glass. The exhibit is open on all sides and is supported by four glass columns.

A subscription to T. E. N. will be given to the first student to submit a correct explanation of the phenomenon. The entire student body, with the exception of members of the T. E. N. staff, are invited to submit solutions. The December issue of T. E. N. will also appear Wednesday.

## Goddard in Double Win in All-Tech Wrestling Tourney

Is Victor in 155 and 165-pound  
Classes; George Defeats  
Bartholemew

FINALS IN HANGAR GYM

The finals in the All Tech Wrestling Tournament were fought in the Hangar Gym last Friday afternoon, with many unexpected victories. The foremost contestants were Goddard and Boyan, both of whom had shown outstanding ability in the semi-finals of last Thursday. The bouts were, on the whole, very fast and spectacular, a few being complete upsets in the last minute or two of wrestling. Coach Jay Ricks refereed all the matches.

Goddard, by reason of his experience and superiority of style, was the star of the afternoon. Goddard is a graduate student here and attended Harvard University for four years. He went out for wrestling there each year and was on the varsity team for three years. During this time he remained practically undefeated, losing only one or two matches. He uses the Harvard tactics of "arm wrestling" which gave him a decided advantage over his opponents.

Boyan, one of those who had much expected of him, did not show up as well as was hoped, winning in but one of the three classes which he entered.

George, 126-Pound Winner

The match between George and Bartholemew which occasioned much interest because of the fighters' accomplishments in the semi-finals was unavoidably postponed and was not run off until yesterday. The prizes

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## Railroad Club Sees Hump Yards

Will See Movies on Railroad  
Topics Tomorrow

Inspecting the Mystic Junction Hump Yards of the Boston & Maine last Saturday, the Railroad Club visited the yard office, where Mr. W. E. Barrett, superintendent of the Terminal Division, described the operation of the yard.

He explained the operation of this division in relation to the rest of the system, demonstrating the teletype and pneumatic tube systems of communication, and also the various forms of reports.

Movies of electrifications will be shown to the Railroad Club Wednesday in Room 4-270. The pictures will be shown from four to five o'clock, when a meeting will be held for the purpose of electing officers and conducting various other business. After this meeting, additional movies will be shown.

## CHAPMAN TALKS AT WATERFRONT CLUB

Professor Lawrence B. Chapman, head of the course in ship operation at the Institute, will address the Merchant Marine Club of Boston at the Waterfront Club on Wednesday, Dec. 13, at 6:30 P. M. His subject is "The St. Lawrence Seaway Treaty."

## CONSONANTS AND VOWELS DETERMINE ADMISSION PRICE AT DORM DANCE

Girls From 38 Schools Have 93  
Different Given Names; Average  
Cost Is \$1.332

Consonants and vowels determined the admission fee paid by each couple attending the dormitory dance given last Friday in Walker Memorial. The system of taxing devised by the dormitory dance committee consisted of a flat rate of \$1.00 plus an excise of not more than fifty cents, the tens depending on the number of consonants in the girl's first name, and the units depending on the number of vowels in the same name.

The names gathered by the graphologist at the door showed a list of 93 different first names and 230 individuals. The most popular name

## Krim States His Machine Is Not First of Its Type

In view of the many misconceptions regarding his recent invention, Norman B. Krim, '34, business manager of THE TECH has issued the following statement:

"The first attempt to build a machine which obeyed a fundamental law of psychology was recorded in 1913. In the last few years several psychologists have again become interested in building such machines.

In a paper which I presented before the A. I. E. E. on Saturday, I described and demonstrated a machine which obeyed, as had previous machines, two of the fundamental laws of the behavioristic school of psychology. That my device is the first analogue of the primary and the conditioned reflexes is untrue. To the best of my knowledge it is a new design."

NORMAN B. KRIM."

## Former Professor Gets High Position

Secretary of Fellowship Board  
of National Research  
Council

Professor Charles A. Kraus of Brown University, formerly assistant professor of physical chemistry at the Institute, has been appointed Field Secretary of the Fellowship Board in Physics, Chemistry, and Mathematics of the National Research Council.

He will be engaged in a nationwide survey of graduate study in these three sciences, and particularly of the fellowship program of the Council in these fields.

Received Degree from Institute

Dr. Kraus received the degree of Doctor of Philosophy from the Institute in 1908. He was a research fellow here from 1904 to 1908 and a research assistant from 1908 to 1912, when he became an assistant professor. He remained at the Institute until 1914.

The National Research Council was organized in 1916 by the National Academy of Sciences as a war measure to effectively organize the scientific resources of the country. In 1919 fellowships were established in mathematics, physics, and chemistry. Four hundred of these scholarships have been awarded. For the past year Dr. Kraus was chairman of the division of Chemistry and Chemical Technology of the Council.

## MENORAH DANCE FILLS WALKER

Tufts String Quartet Plays  
Before Four Hundred

Four hundred members and guests of the Combined Boston Menorah Societies were present at the meeting and dance of that organization last Saturday in the main hall of Walker Memorial.

The guest speaker, Rabbi Joseph Shubow, discussed "The Future of the Jew."

## A. I. E. E. Student Convention Held for First Time

Norman B. Krim, '34, Describes  
Electrical Analogy to  
Human Brain

EVENT WILL BE ANNUAL

Holding the first meeting of its kind ever to come under the auspices of the American Institute of Electrical Engineers, the Technology chapter of that organization was host at a convention which was attended by most of the student chapters in the New England area last Saturday.

The convention met with approval by all of the chapters attending, and it was decided to make it an annual affair. In spite of the inertia that must be overcome to start an affair of this kind, both Professor Dugald C. Jackson and Professor William H. Timbie, of the Electrical Engineering Department, commented on the success of the convention.

Krim Demonstrates "Electric Brain"

At the afternoon meeting of the convention in Room 10-250, Norman B. Krim, '34, read a paper describing a machine of his which has been dubbed an "Electric Brain." The machine consists of two electric motors, two switches, a rheostat, and an electric light bulb. The circuit performs the fundamental learning and forgetting in its operation.

Krim, who says that his development was more a hobby than anything else, states that he first conceived the idea about a year ago when he was enrolled in a course in psychology at the Institute. He began work on plans for the machine immediately, but pressure of studies forced him to lay them aside until this summer, when he completed them. For the past two weeks he has been at work on the device, which cost twenty dollars to make.

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## RAILROAD AGENTS TO BE AT T. C. A.

Transportation for Holidays  
Will be Available

Representatives of the New York, New Haven and Hartford Railroad, the Boston & Albany Railroad, the Boston & Maine Railroad, the Greyhound Bus Company, the New England Transportation Company, and the Boston & Maine Transportation Company will be present at the T. C. A. office from Wednesday, December 13, until Thursday, December 21, during the hours of 12:00 to 2:00 o'clock.

Tech students may see the representatives during this time and make arrangements for trips home for the Christmas vacation. The purpose of this service is to make the railroads more accessible. It will also make it possible to get more verbal information about the various routes than it would be possible to get at a ticket office.

The T. C. A. is also giving the service of being intermediate between those with automobiles who are driving home and who wish to reduce the expenses by carrying a passenger and those who wish inexpensive transportation. To make use of this convenience the driver or prospective passenger should go to the T. C. A. office and fill out an appropriate blank. The blank is then placed in file and at the end of a period the arrangements are made. So far there been twelve applications for rides and no offers from drivers.

## PI TAU PI SIGMA HOLDS INITIATION

Eight pledges of the Technology chapter of Pi Tau Pi Sigma, national honorary Signal Corps fraternity, were initiated last Saturday, at the summer home of Joseph H. Lancor, Jr., '35, in Shore Acres, R. I.

After the ceremony, the society held a banquet in the Naragansett Hotel, Providence. Adrian E. Ross, '34, president, being the principal speaker.

The new members are: Thomas W. Blair, '35; William E. Coleman, '34; Robert E. Eck, '34; Wilbur M. Jones, '34; James T. Killian, '35; William H. Matchett, '35; Lucius E. Packard, '35; Harold W. Parker, '35.

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In charge of this issue: A. E. Hittl, '36; H. Weiss, '37

\$60,000,000,000

THREE and a half million dollars, said a recent newspaper dispatch, have been given by the government to a New England railroad for the repair and construction of equipment. Seven hundred men will be given work.

Assuming that there are only 12,000,000 unemployed in the country it would take \$60,000,000,000 to give them all jobs at this rate. Of course it is the hope of the experts who prepared the Civil Works program that the money being poured into the industrial blood stream will be a stimulant to the basic industries which have been hardest hit by the depression; these will respond and start business on the up-grade and then unemployment will take care of itself. The present construction work is intended only as a partial relief to the acute problems of the jobless.

But it is unfortunate that the men most likely to get work on such public and semi-public projects are on the whole least in need of it. The class of labor hardest hit by the depression is the so called unskilled laborers, while the men who will be employed by the railroad mentioned above will be mostly skilled mechanics and otherwise trained men of one sort or another. These men are more likely to have reserves or at least part time employment than the men who can only swing a pick and shovel.

SPORTS

MORE evidence of the inadequate facilities for athletics at Technology is brought to the attention of the student body. From Saturday of this week until after vacation, the use of Hangar Gym will not be available to any of the squads that have headquarters there. The reason is that the government is taking it over to help handle the rush of Christmas mail.

That means that the wrestling, boxing and basketball teams will have no place to practice for a whole week. Vacation week follows that, so that they must really go without practice for a two week period right at the start of their seasons. The Walker Gym is overcrowded already and must be shared between the Gym team, freshman basketball squad, and fencing team.

The athletic facilities at the Institute leave much to be desired all around. The lockers in the track house are no compliment to a school of our size. The need of a swimming pool has been felt for years. The distance between Coop field and the nearest shower room is much too great.

The situation is not impossible. There is plenty of land across Massachusetts Avenue owned by the school. The hangar would make a good gym for one team. The others could be housed in a new structure on Coop field or even behind the school. Such improvement in facilities would certainly help the development of most athletic teams.

GET TOGETHER

WITH the beginning of a commuters' bowling league, and plans for more dances, the Commuters Association is showing that it will be a real activity in the Institute. Last year there was not adequate time to do more than give the idea to those who must spend two hours or more traveling to and from the Institute daily. Now with the whole year in advance the organization is taking shape.

The bowling league will go far toward unifying the separate clubs in the various communities, and also toward mutual acquaintance between members of different clubs. The only trouble is that the separate groups may gather together and remain in cliques during the social functions of the association. It has been a condition borne out in similar organizations in past years.

In order to avoid this difficulty the officers of the society will have a difficult job on their hands. They can do this only at a slight sacrifice, by giving up their own group for a short period and intermingling with members from other localities. It is a worth while enterprise.



P. P. (Pure Poesy)

I spun my love a pretty tale To while away the hours. A tale of winsome charm and grace, Of castles, and magic towers.

I told her of my Virgin Love, And how it was a wondrous thing. I sang my love these pretty lies And thought: "How prettily I sing!"

And so I dumped my fancies there, And what a glistening heap! I spun my love a pretty tale, —My love fell fast asleep.

We understand that Mr. Cole, at last, has evened the balance, which has previously stood so much in favor of Prof. Blanchard. If you hark back to the freshman chemistry lectures, no more is necessary. This time, we understand that Prof. Blanchard was dramatically proving that chlorine would bleach cloth. The gas stood in the whoozy. The cloth which was blue, he held in his hand. The class held its breath as he dipped the cloth in the gas. He stirred it around a moment and then withdrew it. It was pink. He coughed and stirred some more. It came out pinker. He tried to cover up with some weak explanation about the oxides of various dyes, but the class knew. They knew. THEY KNEW.

Sob Stuff

Johnny Hitchcock is that discouraged looking figure you see sitting in the lobby amidst all the photos of other Tech Shows. He is sitting there in the hope that someone will come along and cheer him up by signing up for the Tech Show chorus.

Come on, boys, shake a leg.

To be quite frank with you, we don't like it. There's entirely too much mystery about it all. Who is this strange man wandering around our feature's nose, anyway? Nobody asked us about it, and we think we don't like it. Who are you? We don't know you.

And why can't you settle down? Always wandering around the page and stepping on people's feet. Oh, well, we guess we'll get used to it.

So your name's Alpha, eh? Oh, Brother Alpha. Well, we don't get so familiar right off so you'll have to take Mr. Alpha and like it. And just remember, you're O. K. with us, but just stay where you are. No closer.

What do you do? Oh, you read books. Humph, that's not so much! We read a book once.

TECH SHOW CHORUS TO HOLD TRY-OUTS

Freshmen Encouraged to "Learn to be a Chorus Girl"

"Learn to be a chorus girl," was the inducement offered Technology engineers by Tech Show. Posters announcing the chorus try-outs tonight at 7:30 o'clock in the Walker Gym have been posted about the Institute. "Tech Show," said John M. Hitchcock, '34, general manager of the show, "depends on the support of the freshmen." He urged them to come out for the show, pointing out that it gave them an opportunity to get ahead from the very start.

The tryouts tonight will probably be the last held for the chorus. Tech Show is a thirty-year-old tradition at Technology. Two placards showing pictures of the 1902 and 1904 shows are on view in the Main Lobby. A man whose picture was on one of the placards recognized it and came in to find out how the show was going on.

An interesting fact in connection with the posters, all of which had pictures of actual chorus girls on them, is that two of them were removed from the bulletin boards within a half hour after being posted. The management of Tech Show is unaware who performed the deed.

PRESSURE FURNACE TOPIC OF LECTURE

Whitman of Standard Oil Will Analyze Developments

Mr. Walter G. Whitman, '17, of the Standard Oil Company of Indiana, will give a lecture on "The Development of High Pressure Furnaces for Chemical Processes," in Room 8-120 Friday afternoon at 4 o'clock. The lecture is under the auspices of the Department of Chemical Engineering.

DECEMBER T. E. HAS NEW FEATURES

Appearance of Issue Improved by New Type of Heads

The December issue of the Tech Engineering News, which appears tomorrow, is characterized by many changes, such as a new kind of type for the headings of articles in the "Engineering Digest" part of the News, which add greatly to the appearance of the issue.

As for the issue itself, there are articles this month which promise to make it the best we have seen this year. An article by H. C. Willett, professor of meteorology, concerns the problems of the meteorologist in the forecasting of weather by means of aerological observations. The article explains the necessity for such observations and describes its experimental beginning during the World War.

High-Speed Photography Described

The latest developments in high-speed photography are described in interesting detail by Herbert E. Grier, '33. This article is most timely, for much has been done in this field at the Institute. And now that the Van De Graff generator has successfully been put through its first paces, we have an article about the generator by V. K. Ulrich, '35, which explains the development of the generator from its earliest changes to the present time, and is very informative.

Describes Marine Safety Devices

An article which is different from the usual run of T. E. N. articles in subject is "Protection for the Mariner," by Charles C. Mabie, of the drawing department. As indicated by its title, the article deals with lightships, lighthouses, buoys, and other devices which help to make the sea safer.

The Engineering Digest this month includes many new and interesting developments, the most spectacular of which is the new ultra short wave tube which is less than three-quarters of an inch in diameter.

On the whole the issue is somewhat more substantial than usual, and seems to follow the trend of other magazines in that it exceeds itself in the December issue.

W. M. N.

INFIRMARY LIST

George E. Best, '34
Francis S. Buffington, '37
Dr. Robert Emerson,
Research Associate
Robert A. Ghelardi, '34
Emory G. Hukill, Jr., '35
Ernest McEntee, '35

Brother Alpha



Brother Alpha and a Few of Us have been working this week on this new movement in Science in the Service of Spirituality.

Exhaustive study of the Literature reveals that there are three classes of persons who talk about God: (a) those who find it does them good Inside; (b) those who find it does them good Outside; and (c) those who want to stop other people from talking about God so they can talk about Evolution. Our idea is that classes (b) and (c) should be given our new Spiritual Experience Test, and then, if found competent to talk about God, should be licensed.

It is estimated that the licenses would bring in about \$25,000 a year in additional revenue, and that the work of the License Bureau would provide jobs for about 10,000 unemployed, chiefly persons of Scientific Background. We would arrange for Abuses in the Department as desired, and the resulting Investigations would take care of some of the Boys in the Organization.

This Week in Walker

Don marquis his archys life of mehtabel is for application to the head thats bloody but not bowed. Archy the cockroach is back again. We aimed to make this national cockroach week at the Walker Memorial Library but Brother Alpha heard recently from the advertising department that they were running a refined dining service in the basement and he wouldn't listen to it. We understand that Archy is a prime favorite with radio audiences on Mars. He is the greatest eponymous hero in the entire history of the decline of the west.

Phosphorous his Hangover Number was sent to Brother Alpha personally as the last Surviving Specimen of the Woop Garoo. Brother Alpha does not wish to look a gift horse in the mouth, but Our Censors had torn a piece out. Brother Alpha is ninety years old, and what he means is, Was that Necessary? Was it Kind? What he means, if he doesn't know the Facts of Life by now, shouldn't somebody tell him? Dr. Oliver St. John Gogarty, poet, playwright, airman, Senator of the Irish Free State, the man who restored the Snakes to Ireland and presented the Swans to the Liffey, his Selected Poems is genuine India Curry. He has two cars, one without brakes for the hills, and another, for the level, that won't run well under fifty. So when he makes Poetry it's Potent. What we mean, this is Buck

(Continued on Page 4)

TWO YEARS IN 12 HOURS

It takes about two years' time to learn the conventional shorthand methods, whereas ABC Shorthand can be mastered in only 12 hours' study. Convince yourself of this fact by examining a copy of the ABC Shorthand for lecture and reading notes which is now selling for \$1.00 at HARVARD CO-OPERATIVE SOCIETY Technology Branch

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—take it home...and bring it back again

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### Hockey Team Loses to Princeton 8-3

#### Milliken Makes Thirty-Eight Saves; Tigers Superior in Final Period

A spirited Technology hockey team fell under the onslaught of a powerful Princeton six Saturday at the Hobey Baker Memorial Rink at Princeton by the score of 8 to 3. The feature of the game from the Engineer's point of view was the brilliant goal tending of Captain Frank Milliken, who made thirty-eight saves during the three periods.

#### Organize Cheering Squad for Harvard Hockey Game

For the first time in a number of years the student body of the Institute will be out with spirit and enthusiasm, only rarely seen at Technology, to support a team. The crew, basketball and track squads are planning to stand behind the hockey team when they stack up against the Harvard six tonight at eight o'clock at the Boston Arena. A large representation from the dormitories and fraternities not connected with any sport are also expected to be out with husky lungs and other noisemakers.

The coxswains of crew headed by Larry Stein and Bob Emery will act as cheer leaders for the group. Along with their spirit and voices, all men may bring along their skates for the skating party after the game.

In the opening period the Tigers managed to lodge the puck in the Technology net twice before the Beavers were able to get started. However, the Engineers soon hit their stride and before the period had ended, Ranny Thompson was able to rife the disk past the Tiger goalie.

### Stars in Net Against Tiger Hockey Team



CAPTAIN FRANK R. MILLIKEN, JR.

During this period Johnny Hrons was injured slightly, and rather than take a chance on his being injured further, Coach Owen took him out of the game, weakening the defense considerably.

With the score two to one against them as the second period opened, the Beavers opened up an attack that swept the Tigers off their feet, and before they could recover, Williams tied up the score, two all. Then both

### GODDARD WINS TWICE IN WRESTLING MEET

(Continued from Page 1)

will be awarded on the occasion of the first varsity match.

The results of the finals were as follows:  
118-lbs.: Clark defeated Noodleman, 5:10 min.  
126-lbs.: George defeated Bartholemew, 5:06 min.  
155-lbs.: Shepherd defeated Boyan, advantage 8:03 min.  
145-lbs.: Boyan defeated McMahon, advantage 9:50 min.  
155-lbs.: Goddard defeated Christensen, 5:29 min.  
165-lbs.: Goddard defeated McCaughan, 6:45 min.  
175-lbs.: McCaughan defeated Boyan, 2:40 min.  
Heavy: Christensen defeated Friedman, 2:40 in the second period.

### CATHOLIC CLUB HOLDS BREAKFAST

Reverend Father Michael J. A'Hearn, S.J., addressed the Technology Catholic Club last Sunday at its first Communion Breakfast of the year, on the subject of "Science and Religion."

After attending Mass at the Cathedral, the club members were received for an audience by Cardinal O'Connell. Breakfast followed at the Hotel Lennox, at 10 o'clock. After the address by Father A'Hearn all the members introduced themselves.

teams opened up and played hard, fast hockey, and in the excitement, Williams was sent off the ice for two minutes. During that time Princeton scored three goals, and went into the lead, five to two.

In the third period the Beavers managed to tally for the last time when Herb Goodwin pierced the Nassau goal. Princeton scored three more goals in this closing period, and the game ended with the score eight to three in favor of Princeton.

The team will stack up against an unknown quantity when they meet Harvard at the Boston Arena tonight. George Owen, Jr., who is now coaching the Technology team in place of Vic Duplin, was one of Harvard's best all-around athletes.

### Basketball Team Will Play Alumni

#### Game to be Held in Hangar This Thursday; Freshmen Lose to Belmont

Thursday night the varsity basketball will play the first on its schedule when it faces the strong Alumni team, composed of former Institute stars, in the Hangar Gym. In view of the sterling quality of the opposition, the game will not lack thrills or be a walk-away for either side.

Coach McCarthy has not announced a definite lineup for the varsity, but he did state that the forwards would be O'Brien and Thornton, while either McIver or Murphy would be at center, and the guards would be chosen from among Lawrence, Kennedy, Garth, and Demo.

The line-up for the grads will include Fred Feustel, Pat Amenta, Adam Sysko, Dave Harrison, Tom Coffee, and others. These players are all well known by the members of their classes as the basketball heroes of their day, and in spite of the fact that they have not for the most part played recently, they can be expected to offer plenty of opposition.

As the game will be played just preceding the annual Christmas Concert and dance of the Musical Clubs in Walker, the attendance should be large. This will be the first time this year that the school has had to see the present varsity in action.

The freshman season started yesterday when the yearlings lost to the Belmont High School by the score of 20-18. The freshmen put up a good fight, but the superior teamwork of their opponents was more than they could compete with.

**TUTORING**  
**MATH. PHYSICS**  
**A. L. M. DINGEE G. P. WADSWORTH**  
Suite 105, Riverbank Court Hotel  
Just across Mass. Ave. from Tech

### A. I. E. E. CONVENTION HELD FOR FIRST TIME

(Continued from Page 1)

**Van de Graaff Speaks**  
Dr. Robert J. Van de Graaff, principal speaker of the afternoon, described his experiments at Round Hill in the field of high voltage electrostatic generation.

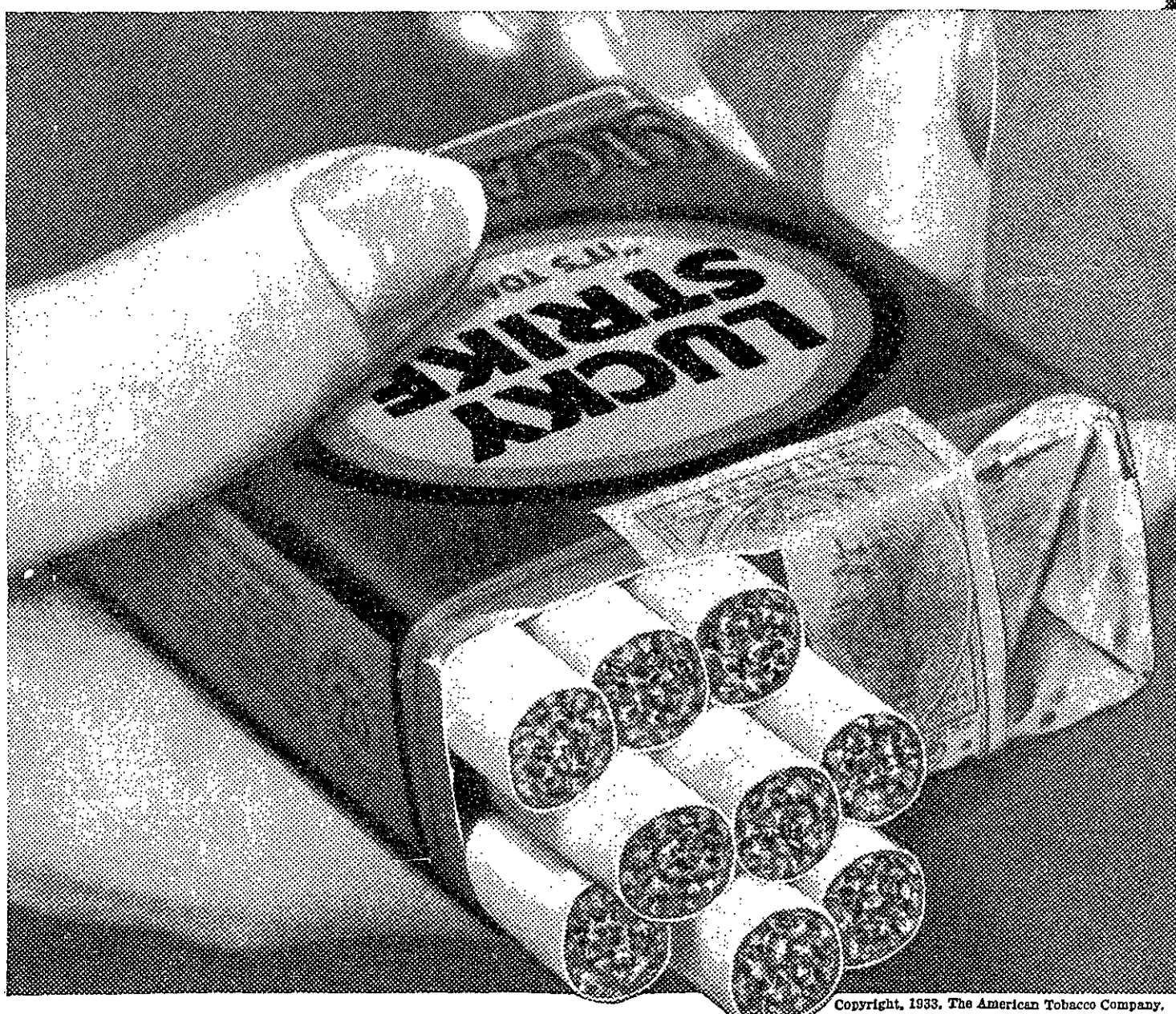
Donald C. Fink, '33, also read a paper at the meeting, the topic being "Electrical Prospecting." He revealed many new applications and ideas in this science, which has been applied to prospecting for minerals and oils.

The third of the student papers at the afternoon meeting was presented by Eric Walker of Harvard, the subject of which was cable testing.

**Sodium Light Described**  
At the dinner meeting of the convention, held Saturday evening in Walker Memorial, Mr. C. A. B. Halvorson of the General Electric Company described the progress that has been made in the study of Sodium light. He demonstrated one of the lights that will be installed at Revere, along the Newburyport Turnpike. He said that with the new lights, increased visual acuity would result, and super-highways would come nearer to being a possibility. He pointed out that the lights would be much cheaper than those in present use, as they would have to be placed at intervals three times as great as before.

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With Silk Vest  
All Suits One Price—Clothiers Complete Outfitters  
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**CALENDAR**

**Tuesday, December 12**  
 6:30—Burton Club Dinner, Grill Room, Walker Memorial.  
 6:30—S. A. E. Dinner, Faculty Room, Walker Memorial.  
 8:00—M. I. T. vs. Harvard Hockey, Boston Arena.

**Wednesday, December 13**  
 4:00—Railroad Club Business Meeting, Room 4-220.  
 5:00—Combined Professional Societies Meeting, Room 5-225.  
 5:00—Debating Society Meeting, Room 2-330.  
 6:00—A. S. C. E. Dinner, Grill Room, Walker Memorial.  
 6:00—The Graduate House Dinner, North Hall, Walker Memorial.  
 9:00—Alpha Chi Sigma Meeting, West Balcony, Walker Memorial.

**Thursday, December 14**  
 6:45 A.M.—Hockey Practice, Boston Arena.  
 2:00 P.M.—Mathematical Seminar, Room 2-239.  
 3:00—Theoretical Seminar, Room 6-120 (subject to be announced later).  
 4:00—Tea in Forris Jewett Moor Room, Room 6-321.  
 4:30—Physical Colloquim, Room 6-120.  
 6:30—Gridiron Club Dinner, Grill Room, Walker Memorial.  
 7:30—M. I. T. vs Alumni Basketball, Hangar Gym.

**BROTHER ALPHA**

(Continued from Page 2)

Mulligan himself on the Martello Tower, Gargantuan, Gorgartian, Ogolly Gogarty, the best guide to Dublin, Ely Place, and the bridge over the Liffey. *The Naked Mountain* is a story of the German-American Himalaya Expedition to climb Nanga Parbat. That's the one remember you saw from Gulmarg across the Vale of Kashmir. Nanga Parbat! dei monti re, capo de tutti le valli. It is also the story of Kraad Herron, whose Italian poetry and whose tragic biography are found at the end of the book. With a distinguished high-altitude record and a half-finished novel, he was training for Everest. He came by all the dangers, but slipped on a pebble running down the Second Pyramid on the way home and was buried in Cairo. Rudolph Brunngraber his *Karl and the Twentieth Century* digs in Vienna among all this Weltshmerz and this Schweineret and shows how the ruin of our world wrapped itself round Karl and his War Decorations till there was nothing left him but to jump off the bridge. Brunngraber, using the methods of John Dos Passos, inserts at the end a statement from Dr. Charles H. Mayo of Buffalo that a human being is worth exactly half a dollar. "There is, for instance, enough fat to make seven pieces of soap. The iron could be forged into a fairly large nail. There is enough lime to whitewash a hencoop. There is enough sulphur to rid a dog of his fleas."

**BOXERS WILL HOLD ELIMINATION BOUTS**

As a means of promoting competition and at the same time compare his men so as to have a means of choosing the lineup to face Harvard on Friday night, Boxing Coach Tommy Rawson is planning to hold a series of elimination bouts tonight in the Hangar Gym. This may mean that the tentative lineup posted last week will undergo a change, with the exception of Wetherall, Carey and Collins, who seem sure of holding their positions.

**IF YOU CAN'T EAT AT HOME THE NEXT BEST PLACE IS LYDIA LEE**

136 Massachusetts Avenue  
 Opposite the Aeronautical Laboratory

**"100,000,000 Guinea Pigs" Lost by Walker Library**

Lost: "100,000,000 guinea pigs." If the finder will return them to the Walker Library it will be greatly appreciated by the librarian.

No, the library has not turned biologist. But it would like its guinea pigs back. And what is the library doing with a hundred million guinea pigs, you ask? The library merely wants to keep them on the reserve shelf.

But the whole mystery becomes clear by reading the note sent to THE TECH from the library. It says, "Will the person who took the book '100,000,000 guinea pigs' by Kallet and Schlink, from the reserve shelf in the Walker Memorial Library last Wednesday, please return it immediately?"

**FORMER PROFESSOR ROBERT H. SMITH DIES**

(Continued from Page 1)

the Revere Lodge A. F. & A. M., a charter member of the Richard C. Maclaurin Lodge A. F. & A. M., a trustee of Mass. Lodge, I. O. O. F., and a director of the Odd Fellows Hall Association. He was also a past Noble Grand of Odd Fellows.

**LOUIS LERNER**

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**LERNER'S**

**TECHNOLOGY MEN TO PLAY SANTA**

**Will Assist Boston Post Drive in Wrapping Packages**

Technology students have been invited by the *Boston Post* to assist Santa Claus in the wrapping of packages for the poor. "Tech Day" will be celebrated next Sunday at two

thirty o'clock at the *Post* Santa Claus Headquarters, 110 Federal street Boston.

Each year the *Post* collects funds and gifts, and asks the aid of various Boston student groups in assembling and wrapping them. Last week a large delegation of girls from several of the women's colleges assisted, and on Monday the Bruin-Hockey team did their part. Numerous celebrities have also visited the workshop.

**Christmas Cards**

This year we are featuring a set of real Technology cards. These are in black and white, and are copies of pen and ink drawings by Stuart Bruce.

**TECH SEAL CARDS**

A Very Careful Selection  
 Priced at 5c and 10c each

**BOX ASSORTMENTS**

consisting of  
 SIXTEEN 5c CARDS      SIXTEEN 10c CARDS  
 25c BOX      50c BOX

also  
**CELLOPHANE PACKS**

Twelve Cards in a Pack  
 15c 20c 25c and 30c

**TECHNOLOGY BRANCH HCS**

REMEMBER YOUR DIVIDEND

*Stepping*

**STEPPING** . . I'll say they're stepping. Just about the best cigarette you ever smoked.

*Chesterfields are milder  
 Chesterfields taste better*



**Chesterfield** *They Satisfy*