

## COMBINED CLUBS TO GIVE CONCERT AT WHITNEY HALL

Xmas Concert and Dance Will  
Take Place of Fall and  
Winter Affairs

### SPECIALTY ACTS PLANNED

Coming as a climax to the social events of the fall, the Christmas Concert of the Combined Musical Clubs will be held on December 18th in Whitney Hall, Brookline. This concert takes the place of the old Fall Concert and Winter Concert, since the latter cannot be held owing to the mid-year exam period.

In addition to the main hall a smaller hall, known as the Red Room, has been secured. Dancing will begin immediately after the concert, the floor of the Red Room will be kept cleared for this purpose. In this way the period of waiting which usually occurs after the concerts will be eliminated.

Tickets will be on sale in the main lobby from 12 to 2 until Friday. They may also be obtained at the Musical Clubs' office in the third floor of Walker. The charge is \$4 a couple, and stag tickets are sold for \$2.50. Reservation of blocks of ten or more seats will be made for fraternities and clubs.

The concert will begin at 8:30 o'clock and dancing will be held from the time of the completion of the program, which will be about ten o'clock, until 2 o'clock. Music will be furnished for the occasion by the Technicians coached by Dok Eisenboug.

Specialty acts will consist of a vocal quartette composed of four members of the glee club, F. A. Thas '28, W. Shreiner '26, E. V. Fasce '26, and R. W. Harris '28, and probably some selections by D. A. Shepard '26 and Raymond Manch, Jr., '26. It is possible that a third specialty in the form of a piano duet may be added to the program.

## HUDSON TO SPEAK ON WORLD AFFAIRS

Represented United States on  
Many of the Post-War  
Commissions

Through the suggestion of President Stratton and the efforts of the meetings division of Technology Christian Association, M. O. Hudson, well known authority on international affairs, has been secured to speak to Technology students in room 5-330, Tuesday, December 15, at 4 o'clock.

Hudson is Bemis Professor of International Law at the Harvard Law School, and was formerly a Professor of Law at the University of Missouri. In 1917 he entered the State Department, and soon thereafter became attached to Colonel House's Inquiry into the Terms of Peace. In 1918 he went to the Peace Conference at Paris, attached to the American delegation, and while there represented the government of the United States on various commissions, including the Commission on Ports, Waterways and Railways, the Commission on New States and Protection of Minorities, and the Commission on the Reply to the Germans.

Professor Hudson will discuss world organizations and what they are accomplishing, as well as the place of the United States in international affairs. This subject is considered timely because it comes just two days before Congress commences a discussion of the United States' relation to international organizations.

## SECOND OF EASTMAN READINGS TOMORROW

M. R. Copithorne will conduct the second of his six readings tomorrow evening at 6:45 o'clock in the library of Walker Memorial. This series is held annually in honor in memory of William Eastman, Jr., '17. Selections from S. B. Crockett, "Stickit Minister's Wooling," and Thackeray's "Newcomes" will compose the program.

## Phonofilms Company May Soon Exhibit at Institute

Newest Invention of DeForest  
Shown for First Time at  
Tremont Temple

In a recent interview with the manager of the DeForest Phonofilms Company, Dr. Stratton invited the company to bring their equipment to the Institute for a special exhibition. Lin Bonner, representing Dr. DeForest, promises that if he can get another set of apparatus from New York a showing of the Phonofilms will be made here in accordance with Dr. Stratton's request.

Phonofilms are the most recent invention of Dr. Lee DeForest, scientist and inventor, and are now being shown for the first time in the Tremont Temple in Boston. The premier performance was held Monday evening and invitations for this performance were sent to the faculty of the leading colleges near Boston. Many members of the Electrical Engineering and Physics Departments of the Institute were present.

**Film Records Sound**  
Phonofilms are the most improved form of talking movies. The regular type of moving picture film is used but along one edge is a narrow strip called the sound record. In the process of projecting the picture a beam of light passes through this sound record strip and falls upon light sensitive cell. Variations of the intensity of light falling on this cell cause variations in its resistance. A current of electricity sent through this cell can thus be made to reproduce the original telephonic current and after being greatly amplified the voice or music which accompanies the film is delivered to the audience through special loud speakers.

The loud speaker used by Dr. DeForest is also his own invention and is especially designed to prevent distortion. This speaker is known as the Audalton and consists of a curved membrane to the edge of which is attached an electro-magnetic telephone unit. This is a complete departure from the accepted usage in telephonic engineering methods and the inventor claims that it eliminates all horn noises.

Before the opening show Dr. DeForest gave a brief address in which he described the methods used in producing Phonofilms. Several Faculty members who attended this show expressed great hopes for the future of this method of presenting voice and picture simultaneously.

## LEWIS RETURNS FROM CHEMICAL CONCLAVE

Members of the American Institute of Chemical Engineers convening in Cincinnati last week showed themselves to be quite different than popular materialistic conception allows, according to Professor W. K. Lewis, '05 who returned from the annual meeting of the organization Monday.

Dean Schneider, of the University of Cincinnati delivered one of the principal papers before the society last Thursday on the methods that institution uses in co-operative education. His arguments provoked a general discussion, in which one of the delegates made the suggestion that the value of any such venture could best be measured by the salaries received by the graduates.

## DORM NIGHT LUNCH IS WELL RECEIVED

A large number of Dormitory men took advantage of the lunch room in the basement of Ware which was officially opened last night. The lunch was opened from 10 to about 11:30, as announced, and the general opinion seemed to indicate that the project found favor with the Dormitory residents.

Yesterday morning a letter with information about the opening was placed in each Dormitory mail box. The letter, sent out by the Dormitory Board, reads in part: "The lunch room has been established as an experiment to better the facilities of the Dormitory and to give an added opportunity for good fellowship. The lunch room will not be operated for profit but will be expected to pay the expenses of service."

## SUBMARINES TOPIC FOR PUBLIC TALK.

Professor Jack Will Deliver  
Deliver Next Popular  
Science Lecture

"Submarines—How They Are Designed, Built, and Navigated," by Professor J. P. Jack, Director of the Pratt Museum and head of the Department of Naval Architecture, will be the first of the series of Popular Science lectures to be given here at the Institute under the auspices of the Society of Arts and will be given on Friday, Saturday and Sunday in room 10-250.

The lecture on Friday and Saturday will be given at 4 and 2:30 respectively and are intended for high school students only. The lecture on Sunday afternoon will be given at 4 o'clock in the same room and will be the same as the two preceding lectures with the exception that attendance at his time will be open to the general public upon presentation of tickets which may be obtained free of charge at the Publications office.

Sunday's lecture will last for one hour and will be illustrated by slides. After the lecture the Pratt Museum will be open for inspection.

## CHEMISTS TO HEAR TALKS IN WALKER

Papers on Organic Chemistry  
Will Be Presented

Dr. J. B. Conant, Associate Professor of Chemistry at Harvard College will give an account of "Recent Developments in Organic Chemistry" at the meeting of the North-Eastern Section of the American Chemical Society to be held in North Hall, Walker, at 8 o'clock next Friday evening. He is expected to speak about his recently completed research work on potentials and about some phases of European science with which he came in contact during stay in Europe last year.

The head of the department of chemistry of Boston University, Dr. L. C. Newell, and Chairman of the Section, will read a short paper on "Faraday's Discovery of Benzene." Professor Newell will exhibit a reprint of the original article inscribed and annotated by Faraday. A paper on "The Mechanism of the Vegetable Tanning Process" will be read by Dr. S. B. Foster, head of the Department of Chemistry of the State Normal School at Framingham, Massachusetts.

A dinner will be held at 6:30 at which Dr. Conant will speak informally on his recent experiences in Europe. Students are invited to the dinner and to the meeting following.

## Research Work At Institute Supports Electrolytic Explanation of Corrosion

Industrial Chemists have taken great interest during the last few years in the causes and theories of corrosion, due to the great losses it causes, and, according to Professor W. G. Whitman '17, formerly Assistant Director of Research Laboratory of Applied Chemistry, the laboratory has done a good deal towards developing the accepted electrolytic theory explaining the phenomenon. Professor Whitman, who has had charge of this work for several years, has lately resigned his position at the Institute to go with the Standard Oil Company of Indiana.

Conservative estimates for the corrosion losses in the United States are above five hundred million dollars annually, showing the importance of the subject, especially since efficient choice of preventives for corrosive action is possible only when a theory has been drafted which covers the facts, and which can be used as a basis for industrial practice along that line.

W. R. Whitney '90, non-resident professor in the department of chemistry, proposed the electrolytic theory in 1902, and it was from this standpoint that W. H. Walker, non-resident professor in the department of Chemical Engineering, and first director of the

## DeForest Pays Flying Visit to Dr. Stratton

Technology may expect to see a demonstration of one of the DeForest Phonofilms within the next three or four weeks, Dr. Lee DeForest, its inventor, intimated, when making a hurried personal call upon President Samuel W. Stratton, yesterday afternoon.

President Stratton had previously invited the inventor to demonstrate his development at the Institute, but the engineers of the company are unable to arrange it at the present time. Several members of the Physics and Electrical Engineering departments attended a showing of the films as the guests of the DeForest Company.

## GRADUATE APPOINTED TO IMPORTANT POST

James J. Maher '02 Given Position as Domestic Engineer

James J. Maher '02, a well known engineer and former member of the Boston board of schoolhouse commissioners, was recently appointed to a newly created office, that of domestic engineer under the School Committee. His duty under this post will be to reduce to a minimum the fuel and light requirements for the Boston public schools.

Maher received his B. S. degree at Technology in the department of Mechanical Engineering. He entered the schoolhouse committee immediately upon his graduation in 1902 and served as heating and ventilating engineer there for a number of years.

## PRESIDENT RETURNS FROM AERO MEETING

President Samuel W. Stratton returned from Dayton, Ohio yesterday afternoon where he attended a meeting of the National Advisory Committee for Aeronautics at McCook Field. The President is a member of the aeronautical committee, and was at one time its chairman.

While in Dayton, he met with the Technology Club of Dayton and spoke at a luncheon given in his honor, Saturday noon. He visited two manufacturing plants in Hamilton, Ohio. At one he inspected some new developments in the design and control of large machine tools; and at the other, he was shown a new type of large Diesel marine engine, now under construction.

Professor H. W. Gardner '94, Professor of Architectural Design, was granted a leave of absence by the executive committee of the Corporation. He will spend six months in Europe. He has been associated with the Department of Architecture for a number of years.

## INFORMAL DINNER TONIGHT FOR ALL MEN ON 'THE TECH'

All Candidates and Members of  
The Staff Invited to  
Attend

### 10 PIECE BAND TO PLAY

To Announce Staff Elections—  
New Competition  
Now Open

Southern fried chicken, candied sweet potatoes, rice, vegetables, Carolina waffles, ice cream, cake, tea or coffee—to say nothing of soup and salad—are just a few of the features of an informal dinner to be given to members of the staff and candidates of THE TECH at The Ole Plantation on St. James Avenue at six o'clock this evening.

Tonight's affair is but one of the means by which the Managing Board will reward the men connected with the paper in appreciation of their spirit of interest and co-operation. The annual formal dinner, coming at the close of the term, will be given as usual this year. In addition, several surprise parties are planned for later in the year.

Professor H. E. Lobdell '17, Professor Winward Prescott, I. W. Litchfield '85, and O. A. Peck '07 are the guests invited to participate in the merry-making tonight. It is expected that about 60 men will be present.

Additional entertainment will be furnished by a ten piece orchestra. If the request is made by the diners, however, the organization of syncope distributors will play 15 pieces. The team is famous in this country and over the river for its ability to interpret toe-tantalizing tunes in a manner surpassed by no other jazz artists of the same age and weight.

Cigarettes of all brands will be distributed gratis to those present, and cigars of all brands but one will likewise be handed out. No noise-makers will be furnished, but it is expected that there will be several short speeches.

Announcement will be made at this time of election to the staff, closing the competition which started at the beginning of the term. A new competition, leading to election at the close of the term, will be opened at once.

## METEORITES TOPIC OF MERRILL TALK

Speaker Believes He has Found  
Natural Carborundum

Meteorites were discussed by Dr. P. Merrill, curator of the U. S. National Museum, Washington, D. C., at the first lecture of his series given yesterday in room 10-250.

The first talk was of a non-technical nature. Meteorites and meteorites are identical except that the former name is applied to those never reaching the earth stated the speaker. Meteorites were discussed because they form the bodies from which most can be learned. Slides were shown of meteors falling through the sky, in which they appeared streaks of light.

Dr. Merrill went on to say that these falling bodies break up into pieces when they explode upon entering our atmosphere, those of stone have a greater tendency to do this than those consisting mainly of iron.

One of the constituents of meteorites has been called Merrillite after Dr. Merrill. A minor compound in meteorites is believed by Dr. Merrill to be carborundum. He stated that if this is so, it marks the first natural silicon carbide to be discovered. Hitherto it has been considered solely as synthetic product of the electric furnace.

The three other lectures in the series will be delivered today, tomorrow, and Friday in room 4-370 at 4 o'clock. These are of a more advanced nature and are intended primarily for Geology students, though open to all.

## CALENDAR

Wednesday, December 9  
4:00—Lecture on Meteorites, Prof. George P. Merrill, room 4-370.  
Friday, December 11  
7:30—Meeting of the Radio Society, room 5-330.

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 News and Editorial—Room 3, Walker Memorial, Telephone, Univ. 7023  
 Business—Room 302, Walker Memorial Telephone, Univ. 7415  
 SUBSCRIPTION PRICE, \$2.50 PER YEAR  
 Published every Monday, Wednesday and Friday during the college year  
 Entered as Second Class Matter at the Boston Post Office  
 Member of Eastern Intercollegiate Newspaper Association

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As We Like It

COPLEY

Tired of being "respectable," and fed up on daily routine, Ambrose Applejohn craves adventure and romance—and Ambrose makes his first step in throwing aside respectability by passing up the reading of "Pilgrim's Progress," for "The Three Musketeers." What happens with the advent of adventure, almost too much of it, is entertainingly told in the clever farcical comedy, "Captain Applejack," presented by the Copley Players this week.

Ambrose longs for the thrill of rescuing a foreign princess from distress, the feeling that comes in meeting an arch villain face-to-face (and killing him, of course), the electric shock which comes when a brave man touches the hand of the fair rescued damsel—the shock which proves that there is such a thing as love at first sight, based on the theory that the lovers met sometime before, centuries and centuries ago. Applejohn's wishes are fulfilled—in reality, when the author thrusts upon him a gang of thieves, one disguised as a Russian dancer, another as a Bolshevik spy, a third as a policeman, and two more as a respectable English couple. In dream, Ambrose finds that he makes a most terrifying buccaneer, "unrespectable" enough to hiss, "Scum!" a number of times, roar for his rum continuously, and bellow forth, "Blast ye!" occasionally.

The dialogue is full of rapid-fire humor, and the plot fairly writhes with amusing situations, only to be untwisted as ably as it is contorted. E. E. Clive, as Ambrose, bears the burden of "putting over" the entire play, and he does so in a most finished manner. Miss Standing, in the triple role of Russian dancer, a dancing girl captured by the swaggering buccaneer, and a clever crook, is at all times equally entertaining and seductive.

J. B. G.

THE PHONO-FILM

Of great interest to the scientific world, as well as to the general public, was the premiere presentation of photofilms by Dr. De Forest at the Tremont Temple Monday evening. Many members of the faculty with their wives were in attendance.

The show as a unit was pelating, and much can be said in favor of the films. Their virtues far outweigh their defects. . . . Head line talent provided the entertainment. The difficulties encountered in the sound feature of the film are purely mechanical, and not technical. To the point the acoustic properties of the studio in which the original sound was generated, have been sadly neglected, and the overtones resulting in the studio have been successfully reproduced, much to the displeasure of the audience. The sound when clear comes through very good, and gives promise to a successful future for these films. The volume of the sound also leaves a little to be desired, in spite of the six loud speakers used to fill the auditorium.

The singing of Eva Leoni (in the second act of Rigoletto) is wonderfully reproduced, and her voice is the most pleasing and accurate I have yet heard produced artificially. The highest pitch of human voice was faithfully rendered, without the least hint of metallic sound. Miss Leoni could not have done better had she, herself, been present.

The photography and lighting of Lillian Powell in the "Bubble Dance" were skillfully executed, and proved a marked contrast to some of the other features.

The message of President Coolidge on curtailment of expenditures was rather dry, but the phonofilms recorded the "twang" of his voice, and this was the primary interest.

On the strength of what has been said above, I may repeat in closing the late statement of Herbert Kaufman, to the effect that "The lens is mightier than the pen."

H. A. W.

OTHER PLAYS

CASTLE SQUARE: "Abie's Irish Rose."—and it goes on and on.  
 COLONIAL: "Lady Be Good."—Withal an excellent production.  
 COPLEY: "Captain Applejack."—We welcome the return of the jolly freebooter.  
 HOLLIS: "The Kickoff."—College as seen from the outside.  
 MAJESTIC: "Greenwich Village Follies."—Improving with time.  
 NEW PARK: Blackstone, the Magician. The hand is quicker than the eye, gentlemen.  
 PLYMOUTH: "Candida."—One of Shaw's best, well presented.  
 REPERTORY: "The Wild Duck."—Blanche Yurka interprets Ibsen.  
 TREMONT: "Louie the 14th."—Many people praise it to the skies.  
 WILBUR: "Old English."—Reeking with atmosphere.

COLLEGE LIFE CONTEST OPENS IN VANITY FAIR

If you have a sense of humor, if you can sense a laughable incident or a joke upon yourself, if you can express entertaining thoughts in an amusing way, then Vanity Fair wants to hear from you. The editors of this journal of light and amusing satire have just announced a prize contest with prizes aggregating \$1000 for the three most amusing and original articles written by college students about college life.

"We believe distinctly in colleges and the college point of view," says the December issue of Vanity Fair. "We believe that the young American in the process of being educated is capable of recording his impressions in a way that will be at once witty and wise. That is what we want. We are not looking for solemnly serious treatises which might be submitted for a Ph.D. thesis, but for articles which will evoke laughter from our readers, whether undergraduate or alumni."

An outline of the rules governing the contest follow.

Each entrant must be a member, in good standing, of the undergraduate body of an American college or university.

Each entrant may submit one, or not more than two, essays or articles, preferably related to some phase of undergraduate life.

Articles will be judged by their quality of humour, style, and taste. Articles must be between 1000 and 2000 words in length.

All articles must be received by the Editors not later than noon, February 1st, 1926.

All articles must be the original work of the competitor and must be hitherto unpublished.

The announcement of prize winners will be made in the April number of Vanity Fair, 1926, and checks to the successful competitors will be mailed not later than April 1st, 1926.

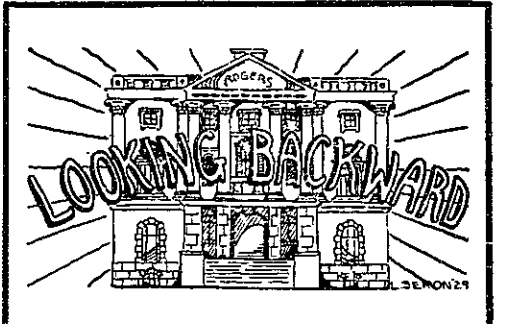
Intercollegiates

Are rolled stockings going out? Here is the Missouri Co-eds' contribution to the cause. "Girls of the freshman class shall wear their stockings so that the articulation between the femur and the tibia in which the pastella shares shall be protected from vicissitudes of weather and inconsistency of winds so that male students may keep their minds on their lessons."

An evening course in Esperanto, "the international language," has been announced by the Boston University College of Business Administration.

As a result of the interclass football game between the Sophomores and Frosh of Springfield College, the Frosh will wear their green caps through the winter term. They were beaten by a score of 7-0.

If the freshmen had been victorious, they would have had the privilege of taking off the Green Cap on February 15th.



40 Years Ago This Week  
 Technique is coming out this week with a new record of 1200 copies.

Considerable complaint is being made this year about general studies. Most of the students are in favor of complete specialization.

25 Years Ago This Week  
 The Combined Musical Clubs staged a very successful Winter Concert.

The French Government has asked for some of the drawings of Technology architectural students which were recently exhibited in Paris.

10 Years Ago This Week  
 The Radio Society made a trip to the Chelsea Radio Station. This, their first trip, was so enjoyable as well as instructive that such trips will become part of the regular program.

An All Technology smoker will be held to celebrate President Rogers' birthday.

At the recent Intercollegiate Rifle Match, a new record was established by a Technology man.

The University of Utah has inaugurated a course in skiing, for which college credit is given.

The faculty of the University of Minnesota has the distinction of being the largest among the colleges in America. The directory of the Faculty gives 1,250 instructors' names.

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INDUSTRIAL CO-OPERATION

ONE of the factors that distinguishes Technology from other engineering schools is the close contact it maintains with active industry. In addition to furnishing the training in the fundamental sciences of chemistry, mathematics and physics, and the general training that is expected of an engineering course, the Institute can boast that its students have little opportunity to become so engrossed in the mazes of theory that they lose sight of the actual application. Each department of instruction cooperates with outside organizations in its graduate and undergraduate research, thus benefiting both the student undertaking the problem and the organization suggesting it. Most courses make frequent use of lectures and demonstrators from manufacturing plants which specialize in the subject under consideration, all of which help to acquaint the student with the conditions against which he will be thrown after graduation.

Technology receives its share of the motion pictures and practical demonstrations of general engineering problems that manufacturers furnish. The supplementary trips to points of technical interest in the vicinity are particularly valuable. With both the Institute and the Combined Professional Societies actively engaged in furnishing such material, we have many opportunities to correlate our theoretical studies with their engineering applications. We must make the most of them.

The Editor takes pleasure in stating, in behalf of that "stalwart soul," that no higher honor could come to him than that of having this past issue of *Voo Doo* dedicated to his editorial self. Such munificence and high award lifts him on toward the Editorial Valhalla.

THE OPEN FORUM

Contributions to this department are welcome and it is the desire of the Editor to give it a more extended scope. Communications must be signed or they will not be considered for publication and must be in the office of THE TECH by 4 P. M. preceding an issue. It is to be distinctly understood that what is printed here is not necessarily an expression of editorial opinion. Communications of an undesirable nature will not be printed.

MUSICAL CLUBS VS. VOO DOO

To the Editor:

It is to be regretted that the Editorial Staff of Voo Doo is obliged to spend so much time working on its own issue that it has no leisure moments in which to scan THE TECH. If a little time had been so spent, it is highly improbable that all of said editors would have missed the notices of the Christmas Concert of the Musical Clubs to be given at Whitney Hall, Brookline, on Friday, December 18. It has been clearly stated that the Christmas Concert is to take the place of the Fall Concert. In fact it is to serve for both the Fall and Winter Concerts as it is not possible to hold the latter as hitherto because of mid-year examinations.

We trust that this comment, provided it comes to the attention of Phosphorus' editors, will convince them that there is no such "appalling gap in the social calendar" as they contemplated, and hope that they will give us some of that "heartiest support and well wishes" so kindly offered to anyone who attempts to break the winter's monotony.

(Signed) W. P. Lowell, Jr., '26.

JAZZING STEIN SONG

To the Editor:

I feel impelled to protest against the indiscriminate use of the "Stein Song," as was done last Friday at the Dorm Dance, at which time our Alma Mater hymn was played for dancing purposes. Many others besides myself feel that the "Stein Song" is something above the ordinary, and should not be debased to the level of jazz

music, to be used for dancing. Although it was rendered for only a short time as the final, still this may be the entering wedge for further indiscriminate use along this line. To keep our "Stein Song" within the role of being a hymn of fellowship and good cheer, I wish to suggest to all those who may have charge of future entertainments at the Institute that they instruct the orchestra not to play our Alma Mater hymn as a dance number.

(Signed) George K. Taminosian '27.

To the Editor:

In a recent issue of THE TECH, an article expressed the unfavored innovation of the jazzing (so-termed) of the Stein Song as the closing number of the recent Dorm Dance. I wish to say that it was not intended that any dancing was to take place during the playing of the Stein Song but that it was expected that everybody was to join in singing it. Several did as was expected but they were in such a minority that they were not heard. This state of affairs goes to show that the spirit of song is fast dying and I heartily endorse any movement to revive this spirit. The advent of the new Technology Song Book ought to stimulate a bit more singing among the undergraduates. It surely will if everyone secures one and uses it for that purpose.

To me, there is nothing more stirring than the singing of the Stein Song at the closing of a Technology gathering and I hope sincerely that it will be sung more in the future than it is being sung at present.

Elmer F. Knight '26,  
 Chairman, Dorm Dance Committee.

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 W. Edward Boyle, Director Mrs. Helen W. Bowers, Hostess

# MERMEN HOLD TIME TRIALS TONIGHT

## Preliminary Heats For Interclass Tank Event At Cambridge Y Tonight

Monday night witnessed the opening of the time trials for the interclass swimming meet in the form of the backstroke event when three heats were held and one man from each class qualified for the finals. The placing of Luey, a freshman, in the fast time of 1 min. 26 sec. indicates that R. Johnson '27 will not exactly have an easy time in the event Friday night. Bridges '28 and Keyes '26 were the other qualifiers.

R. Johnson was not pushed in his heat and finished easily in 1 min. 40 sec. Bridges and Luey, victors in the other two heats, also finished with good margins and Keyes barely qualified by registering the fastest second place time.

Tonight at 5 o'clock the remaining trials will be held at the Cambridge Y and the other entries for the meet Friday will be chosen at this time. Friday's meet inaugurates the activities of the Institute mermen for the coming season.

### 1928 Is Favorite

Judging entirely by past records it looks as if the class of 1928 would qualify the largest number of nators. Most of last year's winning freshman team will put in its appearance under the banner of 1928 when the starter's "go" sends the mermen splashing into the watery pool in the trials this afternoon. The strength of the freshman swimmers, with the exception of

Luey, has been an unknown quantity up to this time and this afternoon's showing should clear up the mystery shrouding the yearling mermen. They have their work cut out for them if the spectacular showing of last year's freshman tank team is to be equalled.

Grover should win the 40 yard free style with no trouble at all. This speedy Sophomore broke the 50 yard record a year ago in the time trials with a time of 25 4/5 seconds. This year the distance has been cut to 40 yards.

In the relay the 1928 quartet should prove by far the best of the four. Having broken the freshman record in the interclass swim last year they should have a fine chance of breaking the class record Friday night with the added advantage of a year's experience. The 1927 relay team gave this quartet a close run for the victory last year but they will be handicapped Friday by the loss of Armstrong and Himrod.

### Grover Best in 100

In the 100 yard free style Grover is the favorite but with R. Johnson entered the finish will be close. Bill Walworth '26 may enter this event in which case the fight will be triangular. Walworth is also strong in the breast stroke and it is a question which one he will enter.

Captain Weis '27 has the best chance to finish first in the 300 yard swim. This distance is a compromise between the 220 and the 440 and a greater number of entries is obtained by doubling up on these events. It is pretty early in the season to schedule a competitive 440 yard swim.

The Sophomore squad should score a slam in the breast stroke with Puschin, P. Johnson, and Jordan all entered. If Bill Walworth decides to enter this event he may break up this combination. It is not likely that the freshmen will qualify in this event.

Whitey Woods has the best chance of carrying off the fancy diving honors. Whitey was a regular diver on the Varsity last year. Brown '28 and Higgins '27 will likely score points for their respective classes in this event. Higgins was a Varsity regular last year.

## BASKETBALL SQUAD PLAYS DARTMOUTH

### Hoopsters Journey to Hanover For Game With Green On Saturday

When the basketball squad journeys to Hanover this week end to meet the Dartmouth team, a real test of their strength will be obtained. In the game with New Bedford last Saturday, the Engineers so outplayed their opponents that a real test of their ability could not be obtained. Dartmouth however is reputed to have a strong team this year, so a win or a close score will show that the Institute is represented by a good team this year.

After watching Captain Forrester and his running mates run rings around the New Bedford team, and outpass them at all stages of the game, it could be seen that Coach McCarthy has developed a strong passing game. Even after he had thrown in all substitutes at the end of the game, they were able to hold the New Bedford team even.

### Forwards Are Strong

There was no doubt that the first team that trotted out on the floor was by far the best team that could be picked. They all work together finely and had a fairly good eye for the hoop. The New Bedford defense was so weak that it was not necessary to try any long shots at the basket, the ball being consistently worked down the floor and dropped in by one of the forwards.

No one man could really be singled out as being the star of the game, as it was team work that won alone. Captain Forrester and Estes appeared to be a fairly strong pair of forwards and with Jud Biehle consistently tapping the ball in their direction, it was not difficult for a large score to be

## HOCKEY TEAM MAY PLAY RETURN GAME WITH B. U. TERRIER

### Squad Working Hard to Make Up For Opening Game's Poor Teamwork

### ENGINEERS FAST ON ICE

### Richards at Goal Showed Up Excellently Under Heavy Barrage

After being soundly trounced by the Boston University Terriers on last Friday evening, The Technology squad is hard at work at the Arena again every morning. Realizing that it was their own lack of team play that was responsible for the upset they are working all the harder to get into top shape. They are also clamoring for a return contest with the Boston team and as a result Manager Carroll is now at work trying to complete arrangements for such a game.

In the skirmish with B. U. last week the Engineers had a really good team on the ice. There was not a player on either squad that could keep up with Bill Berkeley in the line of speed. Deke Crandall on the defense was at least as good as Ling, the Terrier captain. Randall frequently outraced the fleet Gregoire, Boston's mainstay. Meade was flying all over the ice, now here now there.

### Richards A Fine Goalie

If the Cambridge sextet were analyzed as above they appear to be an invincible team. When put on the ice they collapse. Individually they are a fast team but collectively there is something amiss. Friday night's game showed what was wrong. The team played one of those games whose well known motto is "Every man for himself and God for us all." As a group they failed to function. There seemed to be one general formula covering all plays. "X" would carry the puck the full length of the ice only to be tripped up by the Boston defense. Then "X" would rest while "Y" took the rubber up the surface. In this way there were always two or three B. U. men to take charge of the lone Engineer.

There were some recompenses for Friday's game though. The work of Richards at goal deserves more than passing mention. Any player that can stand up against a barrage of shots from the three Terrier stars, Gregoire, Scott and Kontoff, without so much as a defense man to help him, and prevent a score is to say the least a real hockey player. With another year's seasoning this goalie should be one of the best in collegiate ranks. Then the work of Bill Berkeley also stands out as the best individual performing of the evening. Time after time he would have to break through the entire opposition by himself and it may be safely said that the Engineer score would have been increased by more than one point had any other goalie than Martin been guarding the cage, for the latter deprived Bill of two almost certain goals by some miraculous stops.

### Wrestling Schedule

#### Varsity

- Dec. 19: Northeastern at M.I.T.
- Jan. 9: Brooklyn Poly, away.
- Jan. 16: Tufts at M. I. T.
- Feb. 13: Norwich, away.
- Feb. 17: Harvard, away.
- Feb. 20: Yale at M. I. T.
- Feb. 27: Brown at M. I. T.
- Mar. 6: Syracuse, away.
- Mar. 10: Tufts, away.
- Mar. 13: Stevens at M. I. T.
- Mar. 20: Intercollegiate at M. I. T.

#### Freshmen

- Jan. 9: Tufts, away.
- Jan. 16: Harvard, at M. I. T.
- Feb. 13: Open
- Feb. 20: Brown at M. I. T.
- Feb. 27: Andover, away.
- Mar. 6: Columbia, away.
- Mar. 13: Andover at M. I. T.

run up. Hinck and Meyer also showed that they possessed considerable strength, and will be hard men for the opposing forwards to pass.

The real test will come when these two men have to stop the fast Dartmouth forwards. Nothing is known definitely of the Green team, as they have only played their own freshmen so far this season. Every year they turn out a good team at Hanover, so this year's squad can be considered no exception.

## WRESTLERS REPORT IN LARGE NUMBERS

### Dr. Rockwell and Coach Speak At Wrestling Mass Meeting

More than 60 men were present at the mass meeting of the wrestling team on Monday afternoon, for the purpose of getting acquainted with the new coach, Jack Albright, and of hearing plans for the coming season. Dr. Rockwell, president of the advisory Council gave a short talk to the men in which he urged the men to show interest in the sport and also to support the coach.

Coach Albright spoke to the men stating that if they would show an interest in the team and report for

practice, he would be able to turn out a good team.

There were many men out at the meeting who had not reported for wrestling before this fall but were on the team last year. There were also quite a few men from which good material may be obtained. Perhaps the greatest need of the wrestling team at the present time is in the line of heavy men. There is a dearth of men in the heavy classes.

A hard schedule has been arranged for the wrestling teams which lasts throughout the winter months. The varsity schedule culminates in the New England which are to be held here on the 19th and 20th of March. Two years ago the Technology team won the New England and although little is known of the strength of the team at present, it would be a big feather in Jack Albright's cap if he could repeat the triumph this year.

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### CITY TUBERCULOSIS SURVEY BY HORWOOD

Professor Horwood Reports on Survey of Last Summer

Special stress was laid on providing for possible suspicious cases of tuberculosis by Professor Murray P. Horwood of the Department of Biology and Public Health in a report before the Boston Tuberculosis Association at The Hancock Hotel in Boston last week.

Dr. Horwood's report was a result of a survey of the City of Boston conducted by him last summer for the Boston Tuberculosis Association in co-operation with the City and State Health Departments, the Boston Sanitarium, and several other agencies. His report covers a survey of several industries and of the schools and sanitariums.

He commends the summer camps established for tubercular patients and the health crusades in the schools but believes the relation of disease to industry is not sufficiently realized. Active cases of tuberculosis can be cared for in the sanitariums, he says, but the large number of suspicious cases found on the survey are not properly taken care of. Funds, in addition to those usually realized from the sale of Christmas seals are needed. He recommends that the public be appealed to, to provide these funds.

### HOCKEY RINK NOT TO BE OPENED THIS YEAR

It has been officially announced that there will be no skating rink this year because of the expense involved. The rink which was constructed in front of the Hangar last year was mainly for the dorm residents and Hockey team but was little used. This experiment was attempted for five years with unsuccessful results mostly due to the sudden changes of the weather.

Last year was the first year that any success was achieved.

### MEDICAL DEPARTMENT TREATMENTS INCREASE

Winter and especially the wet weather has increased the number of students treated at the Dispensary daily. At the opening of classes, exclusive of the students reporting for examinations, about sixty-five men were taken care of every day for minor ailments.

Dr. G. W. Morse, head of the Medical Department reports that the number has risen to approximately one hundred twenty-five. The number coming in for medical attention is constantly increasing which shows clearly the need of the department and the importance of its work, stated Dr. Morse.

#### NOTICES

#### OFFICIAL

##### POLITICAL ECONOMY X-EC 31

The final examination in X-Ec 31 (Political Economy of the old first term) will be held on Monday, December 14, at 12 noon in room 1-139.

#### UNDERGRADUATE

##### TECHNIQUE

Informal snapshots will be accepted at the Information office or at the Technique office in Walker during the next two weeks. Any students may submit original pictures for this section of the year book.

##### RADIO SOCIETY

The Radio Society will hold a meeting at 7:30 P. M., Friday, in 5-330. In addition to the regular talk there will be movies describing a commercial station.

##### TECH SHOW

The Tech Show Orchestra will rehearse tonight at 8 in North Hall, Walker. The Cast will rehearse tomorrow in the Faculty Dining Room, Walker, at 5. The chorus will rehearse at 7:50 in the Faculty Dining Room, Walker.

##### QUESTIONNAIRE

The Technique Who's Who questionnaire must be in by December 15. A free copy of Technique will be given for the best questionnaire turned in.

##### COMBINED PROFESSIONAL SOCIETIES

There will be a regular meeting of the Executive Committee of the C. P. S. tomorrow in room 3-310 at 5.

### TECHNICAL MEETING TO DISCUSS POWER

Technical Societies To Hold Two Sessions Daily

A two day fuel and power meeting under the auspices of the Affiliated Technical Societies of Boston will be held on Thursday and Friday at Huntington Hall. Papers for this session will be devoted largely to the requirements of Fuel and Power in the industries.

"Sources and Utilization of Fuels" will be the general subject discussed at the morning session of the 10th at which Dr. Ira N. Hollis past president of the A. S. M. E. will preside. An afternoon session will also be held with Dr. S. W. Stratton presiding, the speakers being C. T. Main, Joseph Warren, and K. D. Hamilton who will speak on "Power for Paper Mills," "Power for Textile Mills," and "Power for Industries Using Relatively Small Amounts of Power," respectively.

On December 11 the morning session will be devoted to "Operating Practice," I. E. Moulthrop of the Edison Electric Illuminating Company of Boston presiding. At 6:30 o'clock, the annual dinner of the society will take

place at the Boston Chamber of Commerce building. "The Coal Situation" and Household Heating" are the principal topics that will be discussed at this evening session. Everyone is invited to the dinner; tickets may be had from the society's headquarters in Boston upon remittance of three dollars. This meeting proposes to be outstanding in discussions and papers to be presented.

### GERBER IS MANAGER OF YEAR'S HANDBOOK

At a recent meeting of the Technology Christian Association it was voted that Sidney Gerber '27 should be general manager of the Handbook for this year, and that M. H. Klergerman '28 should be business manager. The managing editor has not yet been selected.

Klergerman has called a meeting of all candidates for this year's Handbook for both editorial and business staff, to be held today. It is desired to begin solicitations of ads for the Handbook immediately. Men desiring to be candidates should report at the front office of the Technology Christian Association between 4 and 6 o'clock. Candidates are not limited to any special class.

### EMPLOYMENT BUREAU GIVES OUT FIGURES

Total of 77 Men Secure Work From T. C. A. Office

According to reports of the T. C. A. Undergraduate Employment Bureau, 77 men were given work during the months of October and November, for which they earned an average of \$36 per man.

During October 23 permanent positions and 30 temporary jobs were held paying \$1043.99. During November there was a decrease in the number of jobs procured but an increase in the amount of money earned. Five new permanent jobs and 15 temporary jobs were filled which paid \$1753.74. This makes a total sum during the two months of \$2797.73.

A new part of the Undergraduate Employment Bureau, which has just been formed, is the Music Bureau, headed by Theodore Packard '27. This Bureau aims to give men possessing musical ability a chance to earn all or part of their way through school. Rehearsals are held three times a week from 7:30 until 9:00 o'clock in the morning.



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## SWIMMERS VIE FOR CLASS SUPREMACY IN MEET TONIGHT

Sophomores Make Best Showing in Preliminaries And Should Win

### FRESHMEN SHOW PROMISE

Luey of 1929 May Be Surprise Of Meet By Winning Back Stroke

This afternoon the interclass meet will decide the water supremacy of the four classes. Wednesday night the preliminaries and semi-finals in the 40 and 100 yard free style events were held, completing the list of entries for the pool battle tonight.

With men entered in every event, the Sophomores should be able to pick up enough points to easily win the meet. The Junior natators will not present the same group of swimmers who just nosed out the 1928 team last year and consequently are not conceded much chance of duplicating their victory of a year ago. The freshman squad is beginning to show promise but they are not yet experienced enough to offer the Sophomores very much opposition in the meet tonight.

**Seniors Enter Four Men**  
Luey is the big find among the freshmen this year. This boy is expected to push R. Johnson '27 to the limit in the back stroke event and if he is "right" tonight Johnson will have to travel faster than he ever did before to head him. Luey has been coming strong since the inauguration of practice this fall and it appears as if he has not reached his limit yet.

With but four men entered the Seniors can not hope to do more than grab a point here and there and perhaps make the competition a little closer between the Juniors and Sophomores. The stronghold of the upperclassmen is in the diving where Whitey Woods is the premier performer. (Continued on Page 3)

## PHONOFILMS MAY BE SHOWN AT INSTITUTE

Representative of Dr. DeForest Suggests Possibility

Technology may expect to have the opportunity to see a demonstration of DeForest Phonofilms within a very short time.

Lin Bonner, representing the DeForest Company, made a short visit to President Stratton on Tuesday and suggested that he would probably be able to secure a set of apparatus from New York to demonstrate the Phonofilms at the Institute.

Phonofilms are made from standard Eastman negative stock. The picture part of the film, however, is cut down three thirty-seconds of an inch along one edge and it is in this narrow strip that the sound impressions appear as faint horizontal lines, spaced according to the telephonic current impulses which correspond to the sound modulations that accompany the picture.

In actual practice the big difficulty arises in the formation and subsequent reproduction of the visual lines which record these sound modulations. The success of DeForest's work has been largely due to his perfection of a light sensitive cell which will quickly and accurately control small telephonic currents. Last year the Fenway Theatre in Boston had these Phonofilms, as a part of the program, but at that time they were not very clear due to horn noises from the reproducer.

Mr. DeForest is now employing a new type of loud speaking device which eliminates this difficulty to a large extent.

## CHESS TEAM PLAYS FIRST MATCH TODAY

As the opening mach of the year the Technology Chess team will play the Boston Chess Club at 7:30 o'clock tonight in the B. C. C. rooms. The men representing the Institute are: R. B. Miller '27, K. E. Gould G, M. L. Libman '26, A. S. Heyser '26, G. J. Breck '26, Moe Brimberg '29, and F. H. Morris G. This is the first match in the Metropolitan Chess League scheduled for the Technology team.

## COURSE VI MEN TO HEAR POWER TALKS

Power generation and distribution at the Institute will be discussed in a paper by Theodore Tayler '26 which will be presented at the meeting of the Electrical Engineering Society in room 10-200 next Tuesday at 8 o'clock.

A description of the generating equipment will be given after which the distribution network will be described in detail. Some time is to be devoted to the discussion of the sub-station in Building 10 supplying the Electrical Engineering Department with power. The talk will be illustrated by lantern slides.

This is one of a series of student papers to be presented at meetings of the society. These meetings are open to all interested, even though not members of the society.

## PROFESSOR JACK GIVES ARTS TALK

Director of Pratt Museum to Lecture Three Times On Submarines

Discussing the subject, "Submarines—how they are designed, constructed and navigated," Professor J. R. Jack, Director of the Pratt Museum of Naval Architecture, and head of the department of Naval Architecture and Marine Engineering, will deliver an address today, tomorrow and Sunday in room 10-250, under the auspices of the Society of Arts.

Today's lecture will begin at 4 o'clock, tomorrow's at 2:30 o'clock and Sunday the doors to the lecture room will be opened at 3:30 o'clock with the talk beginning at 4.

In speaking upon this subject Professor Jack will give a general idea of submarines, telling of the difficulties and dangers connected with their construction and operation, and the fundamental principles underlying their use. He will go somewhat into detail regarding the building of submarines, testing their strength, and arrangements for water, fuel and ventilation.

Operation will also be discussed, such as the details of navigation on the surface and when submerged, how bearings are taken by the periscope, and something of the anti-submarine devices and the military value of the submarine. The lecture will be illustrated by slides, models and photographs.

At the conclusion of the lecture the audience is invited to visit the Pratt Museum of Ship Models and Marine Prints.

## T. E. N. TO APPEAR ON SALE TUESDAY

Begins a Series Discussing Future of Technical Graduates

Tuesday will see the December issue of The Tech Engineering News on sale.

"A Technical Graduate in the Public Utility Field," is the feature article of this issue. This was written for T. E. N. by the General Manager of their previous volume, B. E. Groenewald '25. He is now a junior engineer in the training school of the Public Service Company, one of the Doherty companies, which school he describes in his story.

This is the first article in a series "to discuss the future of the technical graduate in the various professional fields, and the training schools in those fields." The title of the second article in the series, to appear in January's issue, is "The Bell System and Its Trained Personnel."

G. J. Mead '16, a graduate of Course II, has written on the development of an air-cooled aviation engine. Mr. Mead was formerly in charge of the laboratory tests at the army air base, McCook Field, Dayton, Ohio. More recently he was chief engineer for the Wright Aeronautical Corporation. He is now vice-president of the Pratt and Whitney Aircraft Company, a subsidiary of the tool manufacturing company of a similar name.

The story of glass from the years B. C. to the present is told by Karl L. Ford '18. He is at present a chemical engineer of the Glass Container Association, New York City, having graduated from Course X at the Institute.

## NEWSMEN GATHER AND MAKE MERRY AT JOYFUL PARTY

Men From All Departments of THE TECH Attend Dinner Wednesday Night

### 'GOOD TIME HAD BY ALL'

Professor H. E. Lobdell '17 Speaks on "Days That Never Were"

Devouring a full-course real Southern dinner, (prepared in the good old Boston style) to the tune of syncopated jazz produced by an orchestra of masterful musicians, over 60 newspaper men representing all departments of THE TECH were entertained at an informal dinner yesterday evening.

The spacious room, especially reserved for the newsmen, was brilliantly decorated with colored paper streamers, ornamental lamps were hung around the walls, and colored tapering candles lighted the individual tables. The diners were alternately thrilled and drowned out during the feast by the sensuous strains of the violins and clarinets, while the teasing shrieking of the saxophones and blaring of the trumpets made them forget their worries, drop their knives and forks and join in the singing of "Show Me the Way to Go Home," "Sweet Sixteen," and "My Sweetie Turned Me Down." By the time the last four courses of the feast had been reached, the room was filled with the blue haze produced only by the best obtainable cigars.

The invited guests who attended were Professor H. E. Lobdell '17, Professor Winwar Prescott, H. D. Peck '13, and Bill Fielding, master printer who has been working with THE TECH since the days of its youth. At the close of the dinner, announcement was made of the elections to the staff, and it was also stated that a new competition is now open for men in all departments, further elections to be made at the end of the term.

Following a brief address by Bill Fielding on the art of co-operation in the preparing of an issue of THE TECH at the printer's, Professor Lobdell spoke on "The Days that Never Were," when he was associated with the paper, starting as a reporter and ending up as General Manager of Volume 36.

## HUDSON POSTPONES TECHNOLOGY SPEECH

Harvard Professor Called to Capitol—To Speak Later

Word has been received from Professor M. O. Hudson who was to have spoken to Technology students Tuesday, December 15 on "World Organizations and Their Relation to the United States," saying that he will be unable to fulfill his engagement here.

According to a letter sent by Professor Hudson to the meetings division of Technology Christian Association, he was unexpectedly called to Washington in connection with the Senate's discussion of the World Court which is to start soon. Professor Hudson is recognized as a world authority on international matters, having represented the United States on several commissions after the World War, and he is the author of a book on the World Court.

Arrangements are now being made to have Professor Hudson speak some time after the holidays, which he has promised to do, and the exact date of the lecture will be announced later.

## MANY STUDENTS HEAR COPITHORNE READING

Many students attended the second Copithorne reading held last evening in the Library of Walker Memorial. The reading was the second of a series of six held by Mr. Copithorne each year in memory of William Eastman Jr., '17. Selections were read from S. B. Crockett, "Sticket Minister Wooing," and Thackeray's "Newcomers."

## PLANS ARE COMPLETED FOR TECH SHOW TRIP—TO BE LONGEST ONE EVER TAKEN

PROM TO BE HELD AT  
COPLEY PLAZA HOTEL

Again the Junior Prom will be held in the Copley Plaza Hotel but the date has not as yet been decided according to L. F. Baker, President of the Junior class and chairman of the Junior Prom Committee.

Plans for doing away with the customary formal dinner and substituting a buffet supper are being considered and will probably be adopted he states. A meeting of the Prom Committee will be held this evening for the purpose of deciding upon more definite plans.

## CLUBS TO FINISH THEATRE PLAYING

Techtonians, Glee and Banjo Clubs Play Concluding Performance

With the presentation of tonight's and tomorrow's programs the Combined Musical Clubs will complete their vaudeville schedule. Each night during the week the clubs have appeared in an act at Gordon's Capitol Theatre in Brighton.

On Monday and Wednesday the program consisted of the Mandolin Club, a piano duet, and the Banjo Club. The Mandolin Club played "Song of India," "O Sole Mio," in which the club was assisted by a vocalist, and "Song of India." Medleys of popular numbers comprise the repertoire of the Banjo Club which is led by M. L. Ash '26, who made his debut as leader of the club at the Monday night appearance.

The Techtonians, Glee Club, and a Banjo duet rendered selections Tuesday and Thursday, and will repeat tomorrow which will be the concluding performance of the clubs. The manager of the Capitol Theatre, Larry Berg, stated that the Musical Clubs have been the outstanding hit of the week. He congratulated the leader of the Glee Club, F. W. Shreiner '26, for the performance of his men, the Glee Club having been called for an encore at every appearance.

The compliments given the Glee Club have made them regard with anticipation the Intercollegiate Glee Club Contest which is to be held in Boston during February, and in which they will compete. It is expected that if they continue their present performance they will have a good chance to carry off the honors in this battle of harmony.

The next appearance of the Clubs will be at the Christmas concert on December 18. Tickets for the event have been selling during the week in the main lobby, the sale closing today. After today the tickets may be obtained in the Musical Clubs office.

## STUDENTS INSPECT PRATT STOVE PLANT

Industrial Processes of Stove Manufacture Explained

Students of foundry practice of the Institute visited the plant of Walker and Pratt, manufacturers of stoves, ranges and heaters, at Watertown yesterday afternoon.

The students were conducted through the plant in three parties led by Mr. O'Neill, Mr. Clark and Mr. Hodges of the foundry department.

The first place visited was the room in which castings are revolved in wooden drums together with small pieces of iron for the purpose of polishing them and removing moulding sand. A very good polish is obtained by this method without damage to the castings. The making of large cored castings was next observed by the students, some of the work being of very fine detail.

At 2:30 the furnaces are tapped, the accompanying sparks and the white hot metal creating quite a display. The iron is drawn from the furnace into large ladels and carried on cranes to different parts of the foundry where it is poured into the moulds.

## FOUR CITIES ARE INCLUDED IN THE TECH SHOW ROUTE

Hartford, Pittsburgh, Buffalo, And Schenectady Are to Be Visited

### ALUMNI SPONSOR SHOW

Plans for the largest trip Tech Show has ever taken have been released by the management of Tech Show 1926. All the cities that will be included on the itinerary have been signed up, and arrangements have been completed.

At Hartford the first performance of this year's show, "Too Many Brothers," will be given on February 1. The next day the play will be given in Pittsburgh on the following day the men will give a presentation in Buffalo. The final performance of the trip will be given in Schenectady on February 4.

About sixty men will take the trip. This number includes G. V. C. Lord, the coach, Charles Young, the musical director, and stage hands. There are nine men in the cast, eighteen in the chorus, and fifteen in the orchestra.

Being 1400 miles in length, this year's trip is more than twice as long as the conventional New York, Hartford, Northampton trip of former years. It has been made possible by the backing of the alumni clubs in the various cities and their guarantees to the Tech Show management. The alumni in charge of the performances are G. W. Baker '92, Hartford, F. H. Burke '05, Buffalo, E. D. Harrington '18, Schenectady, and G. W. Ousler '16, Pittsburgh. Despite the efforts of T. M. Taylor '22 the Tech Show management was unable to secure the support of Rochester to stage a performance there.

"Too Many Brothers," following the general custom of Tech Shows, is a straight musical comedy. The plot is laid in a fraternity house of an American college during a house party. As the curtain opens the fraternity brothers are assembled for the event, and all the types of college men are represented. What happens to the group during the party is the plot of the show.

## CATHOLICS TO HOLD COMMUNION SUNDAY

Sunday at 9 o'clock the Catholic Club will hold its first Communion Service of the year at the Holy Cross Cathedral. Following the church service a breakfast will be served at the Hotel Lenox at 10:15 o'clock.

Rev. Jones I. J. Corrigan, S. J., Professor of Sociology and Philosophy at Boston College will be the principal speaker at the breakfast. Father Corrigan is a well known public speaker and during the year frequently addresses the members of the various clubs of Boston and speaks at forums.

The Cathedral is on Washington Street and may be reached by taking a Dudley Street car and getting off at Washington Street. Transportation will be provided from the Cathedral to the Hotel Lenox. A section of the church has been reserved for the members of the club and their friends and for all those interested.

## CALENDAR

- Friday December 11  
4:30—Interclass Swimming Meet in Cambridge Y. Finals.  
6:00—American Chemical Society dinner, Faculty Dining room, Walker.  
7:00—Tech Show Music writers meeting East Lounge, Walker.  
7:30—Radio Society Meeting in room 5-330.  
8:00—American Chemical Society Meeting, North Hall, Walker.  
Saturday, December 12  
2:30—Talk on Submarines, 10-250.  
Sunday, December 13  
10:15 A. M.—Catholic Club Breakfast, Hotel Lenox.  
4:00—Talk on "Submarines," 10-250.  
Tuesday, December 15  
4:00—Organic Chemistry Talk in room 5-330.

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In charge of this issue: **C. A. Bartlett '27**

**"EDUCATION" OR "TRAINING"**

In ordinary usage, we employ the word "education" to mean the fitting of men and women for life through teaching what will be useful or beneficial to them in living, and "training" to imply specialized teaching along some one line, with the purpose of fitting the object of the training for some one task.

At the student conference at Wesleyan last week, Dr. F. J. Goodnow, president of Johns Hopkins University, repeated his belief that education, as we have defined it, should be confined to lower schools than the college; and with it such accompaniments as collegiate athletics and social life; and that the colleges should be devoted exclusively to advanced work or training.

This latter function Technology does fulfill; it serves as a place where engineers may be trained. This work of training engineers it does very efficiently: Technology graduates are in much demand in industry; and the composite record of Institute graduates shows that their work is very efficiently accomplished.

But, after all, the Institute does not educate. It is as much a training school as would be a school for barbers, or for mechanics, or for carpenters. True the training which it gives demands a far higher degree of intelligence than do these manual occupations, and a far greater capacity for learning; but the fundamental purpose in each case is to train students to make a living rather to teach them to live.

Perhaps a slightly more flattering analogy may be drawn between an engineering course and a medical or legal course. The purpose of the medical school is to produce doctors; that of the law school to produce lawyers; the purpose of neither is to educate, and no-one believes that they should be forced to do so. In the same way, an engineering school ought not to be expected to educate its students; its purpose is to produce engineers, and that work already crowds a four-year curriculum.

The law schools and the medical schools have solved their problem very simply. All such schools of the better grade demand from entering students a college degree from a reputable institution of higher learning, or require candidates for entrance to pass an examination which is the equivalent of this. Thus the Universities follow in principle Dr. Goodnow's policy, save that they still retain the undergraduate college as an additional feature.

To continue the analogy, Technology should constitute itself purely a graduate school, and require a college degree or its equivalent as a prerequisite for entrance. In other words, instead of trying to "educate" students whose studies are already about as much as they can carry, it should devote itself exclusively to "training" men who have already been educated.

The increasing number of college graduates and college transfers who enter the Institute show a natural trend in the direction of acquiring engineering training after receiving a general education. In order that Technology graduates may be useful and happy members of society, as well as good engineers, the trend should be followed to its natural conclusion.

Such a change as is here suggested cannot come at one blow; nor can anything in the suggested direction be done without careful investigation and long deliberation. But the question is one that deserves and should receive careful attention and a great deal of thought.

**THE TECH**, Volume XLV, takes pleasure in announcing the following promotions and elections: J. D. Crawford '27 and E. L. Welyng '27 promoted to the Editorial Board; Andrew Anderson, Jr., '27 and C. A. Bartlett '27 promoted to Night Editors; W. E. King '28 and C. W. Taylor '28 promoted to Assistant Circulation Managers; A. J. Buckley '27, E. D. Lissner '26, and John Chamberlain '28 promoted to News Writers; and E. V. Lewis '28 promoted to Assistant Treasurer.

Elected to the News Staff: R. H. Blair '29, G. I. Chatfield '28, A. L. H. Darragh '28, E. A. Michelman '29, R. J. Wise '28, John Lovejoy '29, J. A. Russell '28. To the Sports Staff: D. R. Knox '27, J. G. Sullivan '29, C. J. Bernhardt '28. Features Staff: O. W. Rideout '28, W. H. Hossie '28, V. S. Fago '28, H. T. Gerry '29, L. Seron '29 (Cartoonist). Treasury Staff: A. C. Pforzheimer '29, J. M. Farnum '28. Advertising Staff: P. E. Ruch '28.

**THE OPEN FORUM**

Contributions to this department are welcome and it is the desire of the Editor to give it a more extended scope. Communications must be signed or they will not be considered for publication and must be in the office of THE TECH by 4 P. M. preceding an issue. It is to be distinctly understood that what is printed here is not necessarily an expression of editorial opinion. Communications of an undesirable nature will not be printed.

**STATISTICS TELL NO LIES!**

To the Editor:  
 Your leader on "Technology Publicity" in the issue of December 7 seems to have provoked considerable discussion and comment. In that respect you are to be congratulated. Your manner of expression was unexceptionable, but your author seems to be like many other estimable editorial writers who do their best writing when unhampered by the facts of the case which they so piously view with alarm.

For many months the Institute had no press bureau until Mr. J. J. Rowlands, who is listed in the current Directory of Officers as responsible for the "News Service" came to Technology on February 20, 1925. Between March 1, 1925, and November 30, 1925, an interval of nine months, the press cutting services furnished to the Institute six thousand eight hundred fifty-six (6,856) newspaper and magazine clippings in which Technology's name was mentioned. There were probably many that were overlooked; the proprietor of a large press cutting agency admitted that he believed his organization did well if it only missed 25 to 30 per cent.

Of those actually received over two thousand (2,000) odd were directly traceable to stories released by the "News Service." These totaled eight thousand one hundred (8,100) column inches of reading matter exclusive of headlines. Eighty-one hundred column inches represent the equivalent of three hundred eighty-five (385) columns or forty-eight (48) pages of unbroken text in a newspaper like the New York Times. They are slightly more than the equivalent of over one hundred one (101) pages of solid reading matter the size of The Tech. If compared with the reading matter, exclusive of headlines and the unusually small amount of advertising in the issue in which your "Technology Publicity" editorial appeared, they are equivalent to the amount of news in over forty (40) of your issues. This space represents 105,300 words.

**Associated Press Dispatches**  
 One story alone, that about the "Chemical Ocean" used in the laboratories of the Department of Electrical Engineering to simulate several thousand miles of ocean cable in a glass container less than two feet square, appeared (according to clippings actually received) in one hundred ten (110) newspapers in the United States and in eight (8) abroad. A feature story on the Mining Engineering Camp last August was condensed to four hundred (400) words and carried on the wires of the Associated Press for their twelve hundred (1200) member newspapers. Only nineteen (19) clippings were received and therefore it seems reasonable to suppose that in this case also some were overlooked by the clipping bureaus.

Photos of the rotor ship, designated by Lts. Hastings and Kiernan of the Department of Naval Architecture, put out by the "News Service," appeared to our knowledge in one hundred three (103) newspapers and magazines varying in display from a half page in the rotogravure section of the New York Times downward.

These are some of the results of the nine month's work by Mr. Rowlands.

Although these figures alone serve I think, to answer your charge, you should bear carefully in mind this fact: the "News Service" exists not for the purpose of puffing the Institute's reputation to the last possible degree, but to see that valid news which arises at the Institute is treated in a proper, responsible, and accurate fashion. In this, the "News Service" has been signally successful. Of course, the Institute does not get all of the publicity it deserves. It never has and probably never will.

(Signed) H. E. Lobdell '17.  
 Dec. 10, 1925.

**A FOREIGN STUDENT COGITATES ON TECHNOLOGY, VOO DOO AND T. E. N.**

To the Editor:  
 In your editorial of Dec. 7 you wonder why is it that the Institute's name is never seen in the daily papers, while those of the other New England institutions of learning have always something doing.

The reason seems to be obvious: the Institute does not produce as much as the other schools do, on subjects to be dealt with in the daily papers; its production goes in another direction.

The spirit with which the school is managed accounts clearly for it. This is an institution of Technology, that is to say, of applied sciences. A graduate from any of the regular courses, with

the exception of those of pure science such as course V or XII, is unable to do any other work but applied science.

From the curriculum of the courses it can be seen that no narrower education can be obtained. Outside of the essential subjects to complete the course, hardly anything is given, and for a simple reason,—there is no time.

As I understand it, in the other institutions mentioned in your article, the degrees equivalent to those obtained here are given on graduate courses. The student before starting in his professional studies, goes through college, where he gets a more or less general idea of science and arts, and is afterwards able to judge the different points of view.

I believe one of the most important things to learn and succeed in science is a desire to learn, and to have a pleasure in doing so. Here, as a rule, the student goes to class either because it is necessary for him to do so in order to pass the course, or to obey the discipline of the Institute. Few are the cases when he goes because he enjoys the course or wants to find out about such or another point.

**Type of Student Here**

But how can such spirit be expected here? All the preparation that the students have on entering is High School. From what I can judge, the things learned there are: Algebra, Plane and Solid Geometry, Trig., and the ability to solve a few simple problems of physics and chemistry. Besides this, a personal dislike for history, literature and culture in general. Neither languages, geography nor history are taken in a way so as to say that you have an idea of them.

To this knowledge is then added a great amount of M.11, 12, 13, etc., and other essential preparations and necessary subjects to complete the course, and the M. I. T. graduate goes out.

Of course, what he does, is either to get a job and to continue his learning there, and a few years later he may become a good engineer; or if he goes into research it will be on this or that petty little problem of engineering, such as to be able to measure thousandths of a micron or a second, or be able to produce a pressure of 10000..... atmospheres. Never the broader subjects of science are dealt with, only improvement on some other person's work. This is so because those problems can not be dealt with unless more advanced study is done, which will broaden the knowledge and give a better theoretical basis.

The only things we find in the Institute to broaden our views are the courses of general studies, so short that not much can be expected of them and the English courses.

Of these, the first year is elementary history; and the regular or optional sophomore English is always supposed by the students to be the secondary and uninteresting part of the schedule.

**Voo Doo Takes the Count**

The undergraduate activities, with the exception of THE TECH that has lately developed an open forum and book column: are Voo Doo, where the reader, especially if he is a foreigner, gets a good lesson in slang, a great amount of colorful description of kisses, petting, necking, kicking, and the rest; to say nothing of a well chosen number of jokes from the other collegiate papers. I haven't yet seen in it an editorial or an article of some interest.

In the T. E. N. we always get, besides a good article in physics by Dr. Franklin, or its equivalent, only a few photographs of airplanes, and one or two articles on a research problem done in the General Electric.

(Signed) G. Z. '27.

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# TECH QUINTET MEETS DARTMOUTH

## Engineers Clash With Eagle Hockey Team On Arena Surface Tonight

### Hard Game Expected When Engineers Encounter Big Green Tomorrow Evening

Tomorrow morning at 9:00 Coach McCarthy and his basketball team take the Boston and Maine express to Hanover, New Hampshire, where they meet the Dartmouth quintet on the polished surface tomorrow evening in the second game of the season for both teams. Although the Engineers were far superior to New Bedford last Saturday evening and although the Dartmouth team lost a close game to University of Maine Wednesday evening, the Tech team will have to display a fast brand of basketball in order to defeat the Hanover team.

On the eve of the first real game of the season comes the news that Jud Biehle, center on the Cardinal and Gray team, may not be able to take his position when the opening whistle blows. This comes as a sad blow to the team as Biehle was an important factor in the victory last Saturday, due to his ability to out-jump the New Bedford center.

Biehle was taken sick Wednesday evening and although he was out to practice last night, he was not in the best of condition and Coach McCarthy sent him to the medical office for an examination.

**Dartmouth Has Strong Team**  
Should Biehle not be able to play, McCarthy will be forced either to shift Meyer to his position and play a substitute in the guard position, and hence a large portion of the defence work will fall on Hinck, or leave the backs as they were last week and play a substitute center.

Little is known of the Big Green outfit, except the fact that they have a powerful aggregation of basketball players and will make things hot for the Cambridge team. The Hanover team will enter the fray a slight favorite to win. Langdell playing right guard stands well over six feet with

out his shoes on and is a bulwark of defence, breaking up the offensive plays time and again. Whittaker is the star on the offensive. The remainder of the team consists of Captain Dey, McFadden and Gordon, all great players.

A win tomorrow night would increase the Beaver string of victories to two, while a loss will cut the percentage in half. On the other hand, Dartmouth with a win would get a 50-50 break for the week.

M. I. T. DARTMOUTH  
Forrester (Capt.) lf .....rg, Langdell  
Estes, rf .....lg, McFadden  
Biehle, c .....c, Whittaker  
Meyer, lg .....c, rf, Gordon  
Hinck, rg .....lf, Dey (Capt)

### HANDICAP MEET TO BE HELD ON BOARD TRACK TOMORROW

**Cross Country Men Reporting For Third Handicap of Season**

Tomorrow afternoon at 2 o'clock the third handicap meet of the season will be held on the board track over back of the track house. This meet was to have been held last week but due to the inclement weather the management was forced to postpone it until tomorrow. This is the first meet of the season to be held on the boards and theoretically is the opening of the winter track season at Technology.

Practically the same events will be run off tomorrow as in the preceding meets, which have been held on the cinders. Several new events will be added to the list of events, including the pole vault and 70 yard high hurdles.

**Good Men in Dash**  
A feature of the meet tomorrow and of future meets will be the presence of Joe McNamara, a prominent man in local track circles, who will hold the gun. McNamara is official starter at many of the more important track meets around Boston, both during the winter season and during the spring season. He was the starter in the New England games which were held last year on Tech Field and in all probability will give the word at the majority of the intercollegiate meets this year.

Among the events which have a good field of entries tomorrow is the four lap event which has Capt. Leness, Cy Meagher, K. A. Smith and Stevenson facing the starter. In the forty yards Jack Wiebe, K. E. Smith, Shedd and Dick will fight it out for first honors. Wiebe is fast rounding into shape and will force the pace to the limit.

Red Glantzberg, one of the point winners last season, has been practicing consistently with the shot for some time but although he gets off some good heaves during practice, he is unable to place regularly in the meets.

All examinations have been abolished at Temple University in Philadelphia because the psychology department believes that they are inaccurate and influenced by personalities.

### INTER CLASS MEET HELD TONIGHT AT CAMBRIDGE POOL

**Veteran 1928 Team is Favored To Carry Off Honors In Tank Contest**

#### TRIALS HELD WEDNESDAY

(Continued from Page 1)  
former. He should take first place in this event and his team mate Keay will probably collect some points for 1928 in the dives also.

#### Grover Favorite in Forty

Seven preliminary heats were necessary to take care of all the entries in the 40 yard swim Wednesday night at the Cambridge Y. The seven winners of these heats were then divided into two semi-final heats. The seven preliminary victors were Grover '28, Walworth '26, R. Johnson '27, Rae '28, Barlow '27, Kelsey '28, and Campbell '28. Grover made the fastest time in this preliminary, swimming the two lengths of the pool in 20 1/5 sec. It was unfortunate that Luey was matched with Kelsey and Robbins as these two mermen just nosed him out. This was the closest race of the seven.

In the semi-final 40 yard dash Grover, Walworth and Barlow finished in order in the first heat. Johnson, Kelsey and Rae was the order of finishing in the other heat. The qualifiers for the final are Grover, Walworth, Johnson, and Kelsey. Grover should win this event, he having turned in the best time in the heats.

#### Sophs Strong in Breaststroke

In the century, three heats were necessary to take care of the 11 entries. Grover won his heat easily, defeating Lamb '29 and Rae '28 with plenty to spare. Kelsey won the second heat with Walworth, Robbins and Ewald following in order. Walworth, by virtue of turning in the fastest second place time of the three heats qualified as the fourth man in the finals. Weis led the field in the third heat and was followed by Hossie, Murlin and Harding.

With Grover and Kelsey entered in the hundred, the Sophomores should collect points for first and possibly second place. It is a toss-up between Captain Weis and Kelsey for second place winner.

The four entries in the breast stroke (100 yard) are P. Johnson '28, Puschin '28, Tufts '29, and Purcell '27. Puschin and Johnson will likely divide the first two places between them for Sophomore points.

#### Ellsworth A Leading Frosh

This year there will be four relay teams lined up at the start of this event and there are a real interesting few minutes in store for those who come out tonight to witness this portion of the splashes. Contrary to last year's meet the Senior class will be represented by a relay team. A real fight should develop between the Sophomore and Junior alternators. Most of the advantage, however, lies with the Sophomore outfit which includes such stars as Grover, Kelsey, Campbell and Brown. Rae is being held in reserve in case any of the other four are unable to swim.

One freshman who has a bright future is Ellsworth. This merman is a big powerful boy and was barely nosed out in his heat of the 40 yard dash. Ellsworth will race on the freshman relay team tonight. Harding is another yearling with a promising future who will swim on the freshman relay team.

### Strong Boston College Team Favored In Tonight's Clash With Institute

**Improved Technology Team Will Probably Make Game Interesting**

A greatly improved Technology hockey team will face the Boston College Eagles at the Arena this evening at 8:15 P. M. The Cambridge squad has profited in no small degree by their defeat at the hands of Boston University last week and should give the puck artists from University Heights a real surprise.

Coach Stewart gave the players quite a lecture after their failure to come through against the Terriers, with the result that the entire team is now in a fighting mood for the coming game. This quality was especially noticeable at yesterday's practice when the players had a very strenuous half hour's workout.

Besides the new spirit of aggressiveness that has been noticed in the players, there is a really good passing game developing. This alone will decide the score of the B. C. contest, for Boston College has one of the best if not the best team in the United States and Canada. It will be remembered that the Eagle aggregation had a wonderful team last year and they lost but one man by graduation from this group. That player was Jack Fitzgerald, the crack goalie. If the mentor of the boys from the Heights can uncover someone to step in to Jack's shoes, his team will be one of the greatest that Boston fans have ever seen.

#### Hard Game for Engineers

Covering the forward positions for the Maroon and Gold is the well known duet of Groden and Cronin, who have become notorious because of their repeated disrespect for opposing defense and goal players. These two have perhaps paired up better than any two in college hockey. On the defense is the company of Fitzgerald and Mallowney, charter members of the Society for the Prevention of Goals. At center, Mahoney, whose weight would make any football guard envious, will attempt to describe arcs of great circles about his opponents. Fitzgerald, a namesake of last year's star, will wield the big stick and endeavor to keep the rolling rubber far away from his cage.

It may be seen from this summary that Coach Stewart's charges will have a busy session mapped out for themselves when they reach the ice pavilion tonight. Stewart intends to shift his men all about in the course of the evening trying them in the various positions. On the wings, Freeman and Weisner will perhaps start, with the possibility of Bill Berkeley shifting from defense to this position occasionally. Nock, who has been improving greatly in the last few weeks, will be likely to get a chance to show his wares as a forward. Randall and Meade will vie with each other for the center's tasks.

### FRESHMAN QUINTET MEET NORTHEASTERN

Saturday evening the freshman basketball quintet will match skill with the yearling court aggregation from Northeastern University in the Huntington Avenue Y. M. C. A. gym. Although little is known of the Northeastern yearlings, a closely contested encounter is looked forward to by followers of both squads. So far this season, the Cardinal and Gray frosh court aspirants have been showing a great deal of form in the practice sessions. Bernie Morgan has been elected to coach the yearling outfit in the Walker Gym but the cream of the candidates are daily reporting to the Hangar and under the tutelage of Mr. McCarthy, coach of the Varsity.

The personnel of the team has not been announced as yet as no games have yet been played but the first spring material appears to be of the strongest quality as they scrimmage daily against the Varsity quintet and the latter have to play hard to keep on the top side of the score. The following men have shown good form and will perhaps start for the Cardinal and Gray: Forwards, Conti and Johnson; Guards, Dame and McClintock; Center, Brockelman.

Manager Jack Kelly has arranged a fine schedule for the frosh including several trips.

After spending practically the entire first half of the basketball game last Saturday night in trying to analyze the defense which Coach McCarthy was using, we finally decided that it was a combination of the five man and man to man defense. It surely was very effective against the New Bedford team.

On the defense Bill Berkeley and Deke Crandall will pair up as usual, while Brooks will take the former's place when he changes to the front line. As to who will start at goal the coach has not yet decided. Johnny Deignan has not shown up for practice very often since last week's game so it will perhaps be Richards, who starred in the B. U. fracas, who will trot out on the surface first.

LINEUP  
B. C. M. I. T.  
Mahoney, c .....c, Meade, Randall  
Mallowney, lf .....rd, Berkeley, Brooks  
Fitzgerald, rd .....ld, Crandall  
Groden, lw .....rw, Weisner  
Cronin, rw .....lw, Freeman  
Fitzgerald, g .....g, Richards, Deignan  
Game starts at 8:15 P. M.

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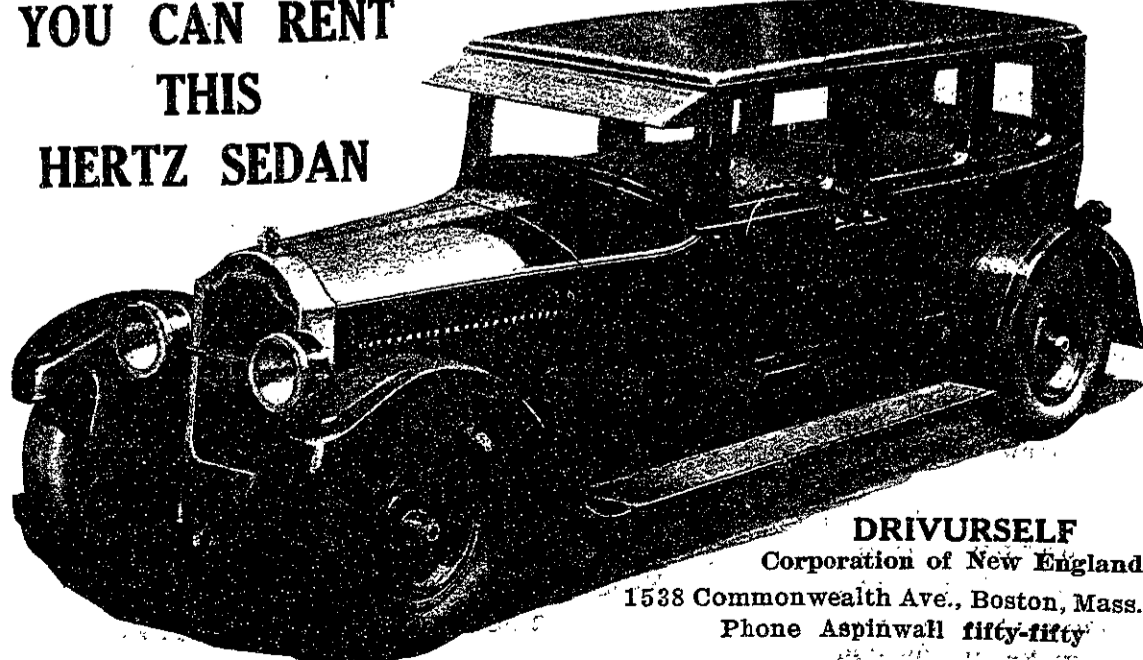
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**PROFESSOR BORN TO TALK ON NEW THEORY**

Professor Max Born, of the University of Göttingen, Germany, who is lecturing at Technology has completed his discussion of the Bohr's Theory of Atomic Structure and today will mark the beginning of a discussion of a new form of the Quantum Theory. This is in line with the series that he lectures upon every Wednesday and Friday, the Theory of Atomic Structure. On Monday Professor Born discusses the Lattice Theory of Rigid Bodies.

**NEW MEN SECURED AS T. C. A. ASSISTANTS**

Letters asking them to attend a special meeting were recently sent out by the Christian Association to the 56 new students who had expressed an interest in Christian Association work by checking it when making out their activity preference cards.

A total of fifteen men were present at the meeting and of these nine have either signed up for some special division of work or have agreed to put in one or two hours each week at the Christian Association office, helping in the routine business there.

A "friendship group," led by C. C. Shotts, Associate Secretary, has been formed to meet once a week. It is composed of those men interested in the work of the Christian Association, and any freshmen who would like to join such a group are asked to report to the back office today at 5 o'clock.

An announcement of the final plans for Yale's memorial to the 227 students who gave their lives in the World War was recently made.

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**CHEMISTS TO HOLD MEETING IN WALKER**

**Papers on Organic Chemistry Will Be Presented**

The American Chemical Society will hold a dinner followed by a meeting in Walker, tonight. This meeting is one of those held periodically, by the society, in which several papers on Organic Chemistry will be read.

At the dinner, Dr. J. B. Conant, associate professor of Chemistry at Harvard College will speak informally on his recent experiences in Europe. The dinner takes place at 6:30, and all students interested are invited to attend.

The meeting will be held at 8 o'clock in North Hall. Dr. Conant will speak of his recently completed research work on potentials and of some phases of European science with which he came in contact during his stay in Europe last year.

Dr. L. C. Newell, head of the Department of Chemistry at Boston University will read a short paper on "Faraday's Discovery of Benzene." Professor Newell will exhibit a reprint of the original article inscribed and annotated by Faraday. Dr. S. B. Foster, head of the Department of Chemistry of the State Normal School at Framingham will present a paper on "The Mechanism of the Vegetable Tanning Process."

**DORM LUNCH TO BE NAMED "OWL'S NEST"**

**Midnight Lunch Does Rushing Business First Night**

Judging from the amount of patronage it is receiving, the "OWL'S NEST," the new Dormitory light lunch room is very popular with the residents. On the opening night 209 men purchased lunches, while there were 169 frequenters the second night.

"OWL'S NEST," the name of the lunch, was chosen from a number of suggestions submitted in response to a competition, the prize for the winner being \$2 awarded by the Dormitory Committee. The committee has appointed P. L. Mahoney '26 to represent the Dormitories in regard to any complaints or suggestions that may originate there.

Because of the rushing business two men will serve the food, R. W. Carlisle '26 having been appointed to assist N. C. Estes '28 who is in charge. It is planned to have the kinds of sandwiches and pies changed now and then to relieve the monotony of eating the same kind of food. As a special feature "Hot Dogs" will be sold tonight.

**PROF WIENER WILL SAIL FOR GERMANY**

Professor Norbert Wiener of the Mathematics Department who has received an invitation to lecture at the University of Göttingen will sail for Germany next April according to an announcement which he made yesterday.

Dr. Wiener who was in Göttingen last summer and delivered a series of lectures on "Generalized Harmonic Analysis" was at that time invited to return to the university. At Göttingen Dr. Wiener will pursue his work on harmonic analysis and will deliver a series of lectures on his recent work, especially on harmonic analysis of periodic and non-periodic processes.

His talks will be attended not only by students but also by members of the Faculty.

While in Germany Dr. Wiener plans to work with Dr. Harold Bohr of Copenhagen on generalized harmonic analysis. Dr. Bohr is not the Niels Bohr of atomic theory fame, but according to Professor Wiener is a quite noted mathematician.

**WILL COMPLETE AIR EXAMS BY VACATION**

**Appointments for Examination Must Be Made at Once**

Unless immediate provision is made it will probably be impossible to take the examination this year. Immediately after the vacation, the official will examine the National Guard and the regular army candidates, and after that he is scheduled to leave Boston, and will not give any more examinations until next fall.

Examinations are conducted at the Boston Air Port in East Boston, and occupy an hour.

According to Lieutenant M. R. Woodword, in charge of the unit, taking the examination does not oblige students to take the course, but only serves to make them eligible if they decide to do so. Thus all students interested in the air service unit are urged to take the examination at once.

**NOTICES**

**OFFICIAL**

**POLITICAL ECONOMY X-EC 31**

The final examination in X-Ec 31 (Political Economy of the old first term) will be held on Monday, December 14, at 12 noon in room 1-139.

**AERONAUTICS.** The schedule for Aeronautics (8.581) has been changed to adapt it to R. O. T. C. requirements. The course will now start on Monday, December 14th, continuing through to the end of the second term, and the first meeting will be held in 3-270 at 8 A. M. Monday. The subject is open as an elective to any properly qualified student.

**UNDERGRADUATE**

**TECHNIQUE**

Informal snapshots will be accepted at the Information office or at the Technique office in Walker during the next two weeks. Any students may submit original pictures for this section of the year book.

**RADIO SOCIETY**

The Radio Society will hold a meeting at 7:30 P. M., tonight, in 5-230. In addition to the regular talk there will be movies describing a commercial station.

**QUESTIONNAIRE**

The Technique Who's Who questionnaire must be in by December 15. A free copy of Technique will be given for the best questionnaire turned in.

**TECHNIQUE**

The closing date for Senior Portfolio picture appointments is Saturday, December 19. Those who have not sent in the Senior Portfolio Statistic sheet should present them at the Technique office at once.

**BASKET BALL**

The following basketball men will make the trip to Hanover tomorrow: Forrester, Estes, Hinck, Biehle, Myers, Innerasky, Timmerman and Mock. All men meet at North Station at 8:40 A. M. tomorrow with equipment.

**CATHOLIC CLUB**

A Communion Breakfast for the members of the Technology Catholic Club and their friends will be held on Sunday December 13. The mass is at the Cathedral on Washington Street at 9 o'clock and breakfast will be served at the Hotel Lenox at 10:15 o'clock.

**SENIOR ENDOWMENT COMMITTEE CHOSEN**

**Men to Decide Feasibility of Endowment Insurance**

Appointment of the members of the Endowment Committee of the Senior Class was made Monday. This committee will meet representatives of a number of insurance companies for the purpose of investigating the feasibility of endowment insurance for the members of the Senior Class.

E. F. Knight was appointed chairman of the committee and R. S. Childsey, L. W. Cummings, M. M. Greer, George Hannauer, Jr., D. B. King, D. H. McCulloch, and T. A. Mangelsdorf, are the other members. The endowment plan which has been used previously is the taking out of about \$250 in life insurance by each member of the class with the Institute as the beneficiary.

A complete report is to be made out at a future meeting of the class and both the advantages and disadvantages of the plan will be presented, as well as the facts regarding the cost to each member of the class.

**Play Directory**

**CASTLE SQUARE:** "Abie's Irish Rose."—Written for the hot-poll—and they like it.

**COLONIAL:** "Lady Be Good."—Adele Astaire has no equal.

**COPLEY:** "Captain Applejack."—Romance and pirates. Closes Saturday.

**HOLLIS:** "The Kickoff."—Amusing but very tame. Final week.

**MAJESTIC:** "Greenwich Village Follies."—Feminine pichritude on trial.

**PARK:** "Blackstone, the magician."—With a company of thirty. Last week.

**PLYMOUTH:** "Candida."—The woman chooses between them.

**REPERTORY:** "The Wild Duck."—Ibsen attacking human foibles. Three more performances.

**SHUBERT:** "The Student Prince."—The best musical show, aside from opera, that Boston has had for years.

**TREMONT:** "Louie the 14th."—Ziegfeld glorifies 30 girls.

**WILBUR:** "Old English."—A beef-eating Englishman portrayed by a vegetarian.

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SPECIAL LUNCHEONS and BLUE PLATE DINNERS  
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Is all very well in a popular song. But in Goodtime land, you enjoy a background of population that is having a happy time, too. That's one reason smart people love to do their dining and dancing at the Egyptian Room of the Brunswick.

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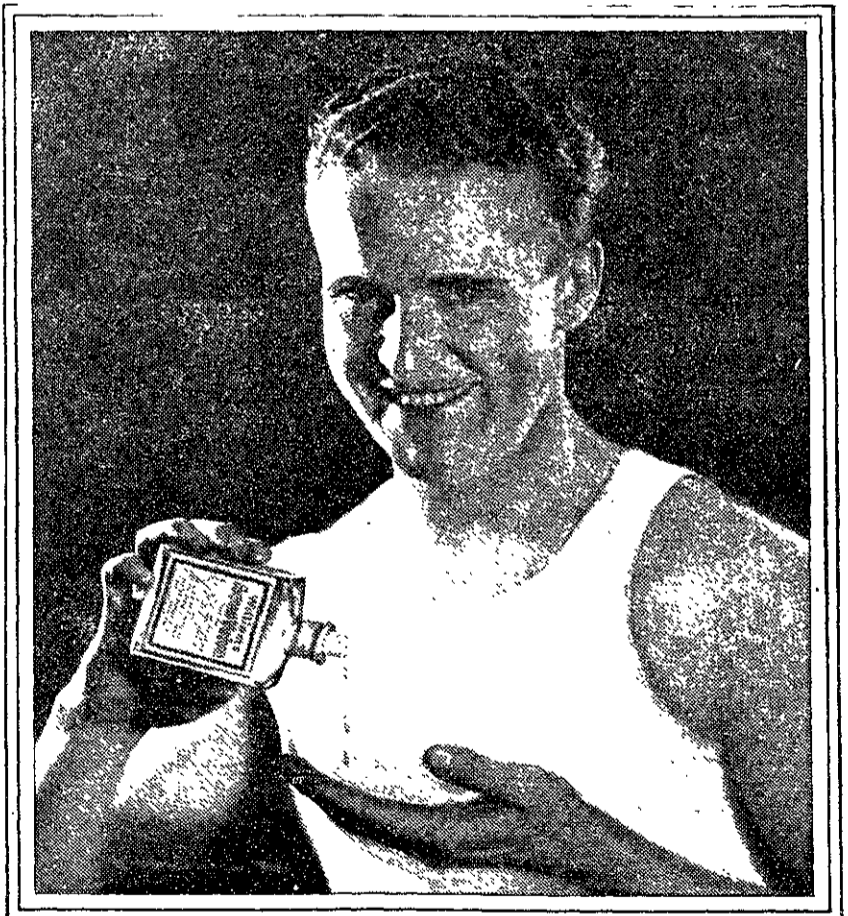
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Blanket Bath Robes, 5.00 to 15.00  
All Wool Lounging Robes, 15.00 to 40.00  
Flannel Bath Robes at 20.00  
Wool House Coats, 6.00 to 25.00  
Jackets, 16.50 to 75.00  
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