

## TWENTY-PIECE BAND CHOSEN FOR PROM

### Basketball Team Defeats Newport Naval Men 44-10

Easily overwhelming their opponents, the Cardinal and Gray basketball team captured their third straight victory when they defeated the Newport Naval Training Station by a score of 44 to 10 in the Hangar Gym Saturday night. The Engineers outplayed the Sailors in every department of the game, showing exceptional ability in their passing.

For the first few minutes of play both teams were on the defensive, neither being able to score. Brig Allen made the first point on a free throw and after this the Beavers took the offensive soon piling up a substantial lead. The Engineers played a much better game during the first half than they did in the other two games as they had the fighting spirit that was lacking in the former games.

**Beavers Lead 18 to 5 at Half**  
By the end of the half the Cardinal and Gray led by a score of 18 to 5 and there was little doubt as to who would win the contest. Scoring honors during the first period were pretty well divided between Brig Allen, Bob Nelson, and George Lawson. Lawson played a running guard while Captain Brockleman, Motter, and McDowell took charge of the brunt of the defensive work and made very few attempts at scoring.

During the second half the play was pretty much the same as it was during the first period with the Beavers piling up an even more substantial lead. By the time the half was three-quarters over Coach McCarthy was confident that he had the game on ice, so he sent in the second team composed of Harrison and  
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### XMAS CONCERT IS GIVEN BY CLUBS

"Russian Rhythms" is Title of  
Surprise Act—Unusual  
Instrument Used

Presenting a first-class concert together with an equally enjoyable dance, the Combined Musical Clubs held their Christmas Concert at Longwood Towers, Brookline, last Friday evening.

A new march "Thunder and Blazes" by the Instrumental Club began the concert at about nine o'clock. The Club worked under some difficulty, because of the unceasing chatter from the audience, which at times threatened to drown out the music. This bad treatment was especially noticeable in the case of the Saxophone Sextet, who were also considerably bothered by the acoustics of the hall. However, the solo by James A. Yates G., "Jerusalem," worked like a charm in stilling the audience.

"John Peel," a new number, was the best received of the Glee Club's repertoire. A solo "The Winding Road" and an encore were sung by James A. Yates G. the Club's baritone.

#### Russian Act Is Feature

A specialty act, in the nature of a surprise, was entitled "Russian Rhythms." Boris A. Berestneff '29, presented several selections on the balalaika, the Russian national musical instrument. He was accompanied at the piano by Mrs. Berestneff. Both appeared in costume, and the act was received with long and enthusiastic applause.

Because of lack of time, the scheduled number by the Tectonians was cut from the program. About two hundred couples were present for the dancing, which commenced at 11 o'clock.

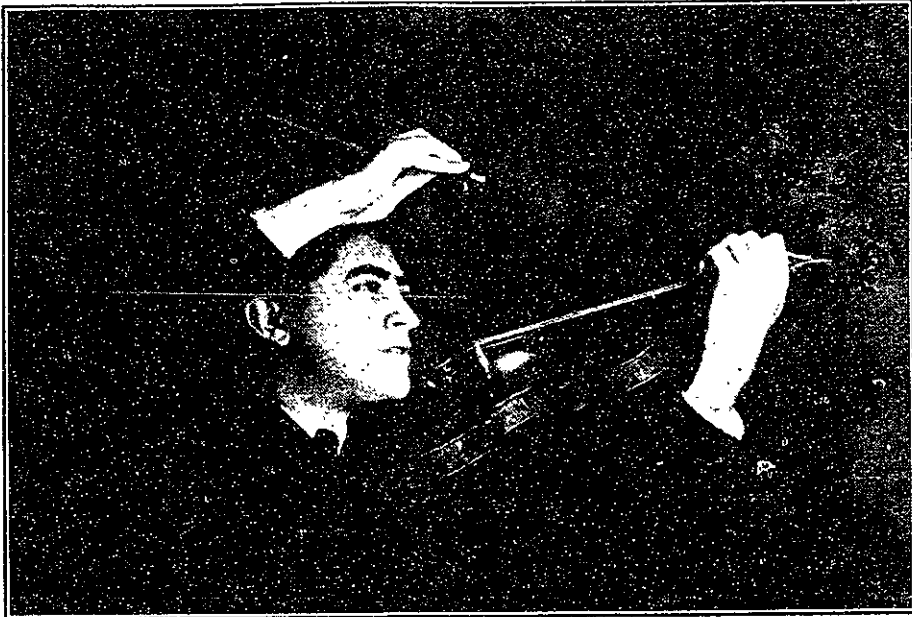
### Hall Crowded at First Popular Science Lecture Given at Institute This Year

Public Throngs to Technology  
to Hear Professor H.  
Monmouth Smith

Some gases which are useful and helpful in daily life and others which, while useful, are harmful physiologically, were described by Professor H. Monmouth Smith of the department of Inorganic Chemistry in the first of the Society of Arts popular science lectures which was given Friday, Saturday, and Sunday afternoons. The first two lectures were open to preparatory and high school students, while yesterday the general public was invited. Room 10-250 was well filled for all three lectures.

Professor Smith took as his subject "Some Gases, Useful and Harmful." He vividly described with numerous interesting and spectacular experiments and motion pictures, the physical, chemical, and physiological properties of gases which play invisible roles in the life of everyone. As a means of fixing the nature of the various gases in the minds of the audience Professor Smith personified them, giving each gas human characteristics which made clear their uses and effects.

Leo Reisman, Leader of the Famous Orchestra  
Which Will Play at the Junior Promenade



### Dramashop Opens Season With "The Show Off" Thursday and Saturday

Geo. Kelly's Well-Known Work  
Excellent Produced—  
Play Well Cast

Making their 1928 debut with a play which has known continued success in its New York productions, the Dramashop produced "The Show-Off" at the Commons Room in Rogers Building on Thursday and Saturday evenings, December 13 and 15.

Hugh Walpole called the play a "Study in Place." With the exception of Boston, it might be any place which is referred to. The medium class district of any big manufacturing town might have furnished the setting, and the people are typically a family of moderate means and education.

**All Roles Well Played**  
We find it difficult to single out a lead—the parts were all very well cast, and the actors lent a reality to the personalities of the individual characters which makes the choosing of a star rather impossible. In a difficult role, Paul V. Keyser, Jr. '29, as "Aubrey Piper," the Show-Off himself, carried through an evening of buffoonery, false impressions, and complete nonchalance in a way which shows promise of bigger things. He played his part well—carrying on in a superbly high-handed manner to a successful climax, his acting is praiseworthy.

Though slightly ill at ease as the play opened, the cast soon got over their stage fright. Miss Brown made of her role as Mrs. Fisher a real personality, made the audience feel the trials of a mother of a family in these days when advice by elders is resented hotly by the children. Her son Joe, as played by Cyril R. R. Harding '30, was an important part well done, as was Clara, as interpreted by Mary E. Betts '30. Helen May '29 made a capital example of the poor working girl, never satisfied with the ordinary existence to which she could never become accustomed, and blindly in love with the man whom her family thought a complete fool.

Even the minor roles of Mr. Fisher, Mr. Gill, and Mr. Rogers went to make up a pleasing continuity for the production.

**Program Note A Big Help**  
Since much of the local color of the lines is so unfamiliar to most Bostonians, Eric F. Hodgins '22, Managing Editor of "The Technology Review," wrote "A Philadelphian's Program Note," which makes all the allusions clear. Cleverly written, this sketch makes the listeners' enjoyment much greater.

The Cast in the Order of their appearance in the production are:  
Clara... Mary Elizabeth Betts '30  
Mrs. Fisher... Eleanor E. Brown '31  
Amy... Helen May '29  
Frank Hyland... Richard B. Ogden '30  
Mr. Fisher... J. Palmer Boggs '30  
Joe... Cyril R. R. Harding '30  
Aubrey Piper... Paul V. Keyser, Jr. '29  
Mr. Gill... Robert McKenzie '32  
Mr. Rogers... Frank B. Stratton '29  
Directed by

Professor Dean Mattison Fuller  
English Department M. I. T.

Professor Dean M. Fuller deserves unqualified praise for the work with the Dramashop. Starting with practically nothing, he has developed some real talent, and has built up successfully an activity which represents the best in its line.

### LIEUT. C. C. CHAMPION WILL ADDRESS A.E.S.

Lieutenant Carleton C. Champion, U. S. N. will give a talk concerning high altitude work at the next smoker of the Aeronautical Engineering Society which will be held Wednesday at 7:30 o'clock in Room 3-270. Lt. Champion is the holder of the present World's altitude record which he made in a Wright "Apache" plane. He holds the World's seaplane record of 37,995 feet and the "all types" record of 38,474 feet. At the present time he is doing graduate work at the Institute.

This is the last smoker before the Christmas vacation. Free smokes will be distributed to those attending and at the conclusion of Lt. Champion's talk, there will be an informal discussion period.

### LEO REISMAN AND HIS ORCHESTRA TO FURNISH MELODIES

Annual Prom to be Held in Main  
Ballroom of Hotel Statler  
on February 21

DANCING FROM 10 TO 4

Well-Known Columbia Recording  
Group to Provide Music  
at Social Event

Leo Reisman and his orchestra, widely advertised as "America's Most Artistic Dance Orchestra" has been chosen to play at the Annual Junior Promenade to be held in the Main Ballroom of Hotel Statler on February 21. Out of a large group of nationally known orchestras the Prom Committee finally selected Reisman's syncopators in preference to "imported" bands to furnish the music at the coming Prom.

Tech Show will be presented in the ballroom before the dance and at its conclusion the Prom will start immediately and last until 4 o'clock. Due to the lack of interest among the students and the financial losses entailed in running all the social events in one week it was decided that this year they will be run at different times throughout the year. It is for this reason that the Junior Prom is to be held on the night of February 21.

#### Reisman Orchestra Famous

Leo Reisman, and his twenty-piece Columbia Recording orchestra have acquired a nationally known reputation in musical circles. At present Reisman and his orchestra is playing in the Egyptian Room of the Hotel Brunswick of Boston for the eleventh season. His is the only known orchestra that has ever appeared in an entertainment room of that type and played there for ten years consecutively.

#### Has Played for Celebrities

For several years Reisman's orchestra has been recording its music on Columbia records. The sale of these dance records is second in volume in the world, being outsold only by Ted Lewis' records. For one year the orchestra appeared in the theatrical production "Good Morning, Dearie," and this is the only existing Boston orchestra that has ever played in a Broadway musical comedy.

During his musical engagements in the past Reisman and his orchestra have appeared at the Ritz-Carlton and the Waldorf-Astoria Hotels in New York and have played at numerous fashionable private parties. Some of these noteworthy engagements were  
(Continued on Page 4)

### Present Canadian Movies Tomorrow

New Pictures of Ontario to be  
Shown to Faculty and  
Student Body

Through the courtesy of the Provincial Government of Ontario, Canada, six reels of motion pictures dealing with that region will be shown to the faculty members and students of the Institute tomorrow afternoon in Room 10-250 from 4 to 5 o'clock. These pictures, which are being released for the first time, depict the natural beauty of Canada and the modern progressive methods being carried on there.

Various phases of Canada's forestry work will be shown in the films entitled "Spare Time" and "Air Patrol." The latter will illustrate the progress that the Dominion has made in using airplanes to combat forest fires. "Niagara's Winter Wizardry" should prove interesting to those students who have never viewed the Falls in winter. "Ontario's Summer Sorceries" is the title of the concluding reel to be shown. This deals with the beauty spots of the Province during the summer months and explains why the country is appealing to tourists.

### Two Activities Hold Tea Dance

Members of the T.C.A.—T.E.N.  
Staffs Dance to Music  
of Tunesters

Approximately 50 couples attended the Tea Dance given for the members of the Technology Christian Association and the Technology Engineering News staffs in the North Hall, Walker, from 3 until 6 o'clock on Saturday. A Christmas tree was placed in the center of the floor and the room was dimly lighted and decorations hung near the ceiling. Music for the dance was furnished by the Tunesters.

It was rumored that there would be some mistletoe hung in the room but apparently no one located the hiding place. A marshmallow can was placed at the base of the Christmas tree, and several persons discovered that it contained only an imitation snake.

Judging from the comments heard on the floor, every one thought that the dance was a large success. Credit should be given to the T. C. A. secretaries, Miss Mary McCormick and Miss Ellenor Nelson, who were in charge, for the success of the dance.

### ENGINEER TO SPEAK AT S.A.E. MEETING

Henry M. Crane '95, Technical assistant to the president of General Motors Corporation, will speak on automotive engineering at a meeting of the student branch of the S. A. E. tonight at 3 o'clock in room 3-370 and at a faculty luncheon at noon today. All students who wish to attend the afternoon meeting are invited. Mr. Crane is a leading figure in the automobile industry. He has been a builder and designer of various motors, and was owner of the Crane Automobile Company.

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

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In charge of this issue: Elmer W. Harmon '30

IN PURSUANCE THEREOF

FURTHER conversation with members of the Faculty on the subject of American and European educational methods has only the more impressed upon our minds the preponderance of truth in the first of our editorials upon this most absorbing question. Not one who has experienced active contact with foreign technical schools has failed to hold strongly that we have much to learn from them. Yet conversational declaration is one thing, and a signed statement of belief quite another. Were we to call for anonymous letters on this subject, undoubtedly innumerable notes of very strong criticism of our methods would result—letters that might be powerful in their effect upon constructive change. As it is, few feel their way clear to an open statement of viewpoint, unless it be that of the traditional America-first variety. Frankness and tact make sad companions.

Had we followed certain sentiment existing in Technology, we would after the first editorial have let well-enough alone, and dropped the matter quietly. Conscious blindness has never been one of our ideals, when the discrepancies to which we shut our eyes might be removed through close inspection. Instead of such smug, optimistic hypocrisy we have preferred to delve further into the question, testing it to the best of our ability. Letters from four of the Faculty appear elsewhere on this page. Further correspondence will appear in the near future. The subject will continue to be discussed—from the student viewpoint, from the professorial standpoint, from the American and the European. We do not cherish the vain hope of rejuvenating directly the American system. If we may enliven the existing sentiment, if we can awaken in the reader's mind the desire to better conditions through emulation of and improvement upon superior practice, then will our ambition be realized.

"EXCEPT BY PACIFIC MEANS"

WITH the convening of Congress two weeks ago, one of the most noteworthy measures which is to come before it within the next few weeks was brought into the limelight of popularity by a watchful press. We refer to the heralded multilateral treaty engineered by Secretary Kellogg for the "renunciation of war as an instrument of international policy". Nothing within the past few years, with the exception perhaps of the big navy bill last year, has so stirred the people to such protest as the activity of certain senators who are attempting to tack on riders to the Kellogg Peace Pact. The president and the senators are already swamped with petitions urging the passage of the treaty without reservations. It is the duty of every peace-loving citizen to help ratify this most important and progressive document, and one way is to write immediately to President Coolidge and the Senators of Massachusetts your desires.

The pact, to which practically all the important nations have already given their complete approval, contains the following essential features. "The high contracting parties solemnly declare in the names of their respective peoples that they condemn recourse to war for the solution of international controversies, and renounce it as an instrument of national policy in their relations with one another". Furthermore, "the high contracting parties agree that the settlement or solution of all disputes or conflicts of whatever nature or of whatever origin they may be, which may arise among them, shall never be sought except by pacific means".

Of course, we realize that this declaration of the outlawry of war will not put an end to a barbaric practice, but the placing of war definitely on a criminal basis will do much toward bringing in a peace psychology among peoples. If we reject the Kellogg Peace Pact now and enter an armaments race war is inevitable in the near future. Lloyd George predicts that unless nations soon definitely and finally commit themselves to peaceful means of settling disputes, "God alone can save the world from a more terrible war than has ever been seen. . . . The next war . . . will be a war on civilization itself". All we sacrifice now to bring in peace will be but small payment for the rich rewards of the future.

THE OPEN FORUM

Opinions from the Faculty

In a sincere effort to bring to the attention of those at M.I.T. the veracity or error of "Blind Braggadocio", as the case may be, four professors now actively connected with the Institute who have either studied or taught in Europe in recent years have been asked to submit their views in writing for publication in these columns. Professor Julius A. Stratton '23 spent some three years in graduate study in France, Switzerland, and Germany, and received the degree of D. Sc. from the Technische Hochschule in Zurich; Professor Hale Sutherland '10 was an exchange professor sent to Robert College, Constantinople, where he was acting head of the Department of Civil Engineering; Professor Manuel S. Vallarta '21 spent one year in Europe, principally in Berlin and Leipzig, as a Guggenheim Fellow; and Professor Norbert Wiener studied in Cambridge and Göttingen 1913-15, the summer of 1920 at Strasbourg, and in 1926 was a Guggenheim Fellow at Göttingen, and gave a lecture course at Copenhagen; he has as well spent several summers in Europe in touch with foreign colleges.

To The Editor, The Tech:

The recent editorial entitled "Blind Braggadocio" has had as a natural sequel the request for comments from various members of the staff who have had the good fortune to study abroad. Now nothing is more dangerous than generalities on controversial matters, and it is difficult to be specific in the confines of a single paragraph. My own observations make it exceedingly difficult to avoid the unpleasant conclusion that the product of a European education, taken by and large, is distinctly superior intellectually to the American brand. But I am not yet ready to admit that this superiority is to be traced entirely to differences in pedagogical method. In fact, at times I have rather suspected that the European student triumphed in spite of the system rather than because of it. But there are other circumstances which from the very outset place the European, be he student or professor, on an entirely different footing. Europe caters admittedly to the chosen few, not at all because of a dormant sense of democracy—for America is not the most democratic country in the world—but because of the intense competition. A man must be master of his subject to succeed and life, even in the secondary schools, becomes a very serious matter. That we in America should strive to raise the intellectual level of the masses is as it should be, not because of any inalienable right of every man to a college education—for we are entitled to things worthwhile by effort and not by right—but because these very masses are the source of our genius. In our devotion to mediocrity, however, let us not forget the man who by Nature is superiorly endowed. It is in this almost universal disregard and neglect of the outstanding man that lies, in my mind, the greatest weakness of the American educational system.

Competition due to restricted opportunity is undoubtedly the driving force behind the European student, but it has several logical consequences which make his lot a pleasant one. Above all, there is the traditional respect for learning and the scholar, prevalent in every social class. There is a sympathy for the worker in pure science and an appreciation of his goal which is sadly lacking in America. The very scarcity of funds has demonstrated that after all, men are worth more than equipment and a man is judged by his ideas rather than by his apparatus. There is the ideal of the scientist—and even the engineer!—who are to be more than graduate plumbers, and the inspiration which comes from contact with men who are among the first intellects of their generation. Comparisons are odious. Of course the European educational system is full of faults! Let us not seek to enumerate them in a futile effort to strike a balance, but rather search for merits which may perchance show the way to a mastery of our own weaknesses.

Julius A. Stratton '23

Sir:—

There is much to substantiate the criticisms made by our European friend quoted in the editorial "Blind Braggadocio." For example the Turkish government recently required the Engineering School of Robert College, Constantinople, to abandon its four-year program which followed the usual American pattern and substitute a five year curriculum more in line with European standards. The average Diploma Engineer from the Swiss and German Technische Hochschule undoubtedly has a far sounder understanding of the laws of pure and applied science than do our Bachelors of Science. Undoubtedly in some technical schools autocratic trustee control has resulted unfortunately. Undoubtedly many of our schools have overvalued material equipment and neglected the building up of a strong faculty.

To be grieved at the saying of these things is to betray a naive ignorance of what the leaders of American education have been saying these many years. The fact that THE TECH

brings them to the notice of a new audience is another of the many signs of health in our American educational system. No human institution can progress without self criticism. No school succeeds unless the students are vigorously and critically interested in the educational process in which they are involved. Active mental life among our undergraduates is quite essential if we are to add to our American educational processes the admitted virtues of European schools. There the student educates himself by aid of lecture attendance, study and personal conference with his instructors. There is no pampering nor coaxing of the sluggard. Everything depends upon the initiative and intelligence of the candidate. Here at M. I. T. we are in an active process of change aimed at forwarding this process of self education. (By the way, there is no other method.) Along with a few other schools we are considering our high ranking men and are arranging for honor courses and honor groups. These men are now in a position to obtain very nearly, if not quite, the equal of a European training if they will go after it strenuously and not insist upon carrying a staggering load of student activities of variegated values. But this means probably two things: a year of graduate work in good part devoted to mathematics and mechanics, and the addition of comprehensive examinations at the end of both the fourth and fifth years. Preparing for comprehensive examinations which cover the whole field of pure and applied science studied during the entire college course will compel a coordination and grasp of basic subjects the lack of which is perhaps the most evident weakness of the American graduate.

In another matter we are singularly happy at this school and that is in the good relationship between faculty and corporation. The educational policy of the institution is entirely in faculty hands and our failures and successes are to be charged to the men in everyday contact with the students and to the Presidents who lead and have led them.

Hale Sutherland '10

To the Editor of THE TECH:

"Blind Braggadocio," the editorial in your issue of December 5, is of a brand to make all who are seriously interested in educational problems and policies stop and ponder. There is no question at all, as ably stated in your editorial of December 7, of disparagement of European methods at the expense of American, or conversely, and such is most assuredly not the present writer's intention.

That there is a marked difference in the attitude towards education, and therefore in educational methods, on either side of the Atlantic is something which any one mildly conversant with conditions here and abroad will

readily admit; that there is a definite point of superiority of European over American educational policies is a more debatable question. The difference arises from an accumulated tradition of high respect and admiration for intellectual achievement which has been fostered in Europe by centuries of gradual development of culture, and which doubtlessly will some day become a part of American standards. As it is to-day, one can hardly escape the feeling that many an American university relies more on buildings, athletic teams and claptrap than on high intellectual standards of its Faculty and students to uphold its reputation. The great American public's attitude verges on contempt towards the "high-brow" professor whose role is neither understood nor properly appraised, perhaps because American educational institutions are not sufficiently careful in the selection of their Faculties, more precisely because for financial and social reasons the professor's chair in many cases does not attract the best type of men.

There is also a good deal of evidence that the purpose of a technical education on this side of the Atlantic is too much how to solve specific problems and not enough how to grasp the general underlying principles on which the solution of these problems is based. The European attitude follows very much the opposite extreme. The average technical student learns general methods, but can he use them to tackle specific problems? It seems to the present writer that here the faults of European and American methods are fairly well balanced, just as he feels that the supposed advantage resulting from Faculty rule, as opposed to Trustee rule, is largely nominal. No European university, to the writer's knowledge, is financially supported by its Faculty. "He who pays the piper—" but why dwell on trite proverbs?

But there is still another side to the story. A fair proportion of American students is prone to a distorted sense of values which makes it look with mere condescension upon its studies. Theirs is the delusion that one goes to college to snatch a degree with the least possible exertion, supposedly a sort of pass-key to the world at large, and not to cultivate the love for the things of the mind. Often Paul must go to college to put on a thin veneer of the social graces, seldom to strive for the acquisition of those inner qualities which make the scientific and the cultured man. Is it any wonder that our educational institutions are clogged with undesirable whose highest ambition is to become bond salesmen? These are all features resulting from present social conditions which will likely vanish within a few generations.

Manuel S. Vallarta '21

Editor, The Tech:

The European education, in so far as it has advantage over the American, does not, in my opinion, possess this advantage by virtue of its differences in detail. What is better depends: (1) on the fact that the European schools receive a smaller percentage of the population, that it is not expected that every young man and woman whose parents have attained a certain minimum of financial solvency shall go to college and that their universities are not clogged with the enormous mass of ineducables and semi-educables that ruins most of ours; (2) on the fact that the pressure of competition is enormously greater in Europe than here, that a teacher must be a good teacher, an engineer a good engineer, a scholar a good scholar, or they will find their superiors in a long line waiting to take their jobs away from them; (3) that there is an immensely longer tradition of learning, that the scholar is respected, and not treated as here with a toleration which is only not contempt, and that they find it worth their while to allow him that leisure without which intellectual work cannot

(Continued on Page 4)

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# NINETY MEN COMPETE IN HANDICAP MEET

## Newport Naval Training Station Overwhelmed By Varsity Basketball Team

### Close Races Are Feature Of First Meet Of Winter Season On Board Track

**Coach Hedlund Pleased With Big Turnout of Track Men—Sixty Frosh Run**

Close races and hair-breadth finishes were the outstanding features of the handicap meet which was held on the board track last Saturday. It was the first and last meet on the Winter track before the Christmas vacation, and it proved to be most successful in every way. About ninety men took part in the different events, about two-thirds of this number being freshmen.

Coach Hedlund was highly pleased with the showing made by his proteges both in the interest which they displayed in the meet and in the progress and development that they have shown since the beginning of the season. It was a perfect afternoon for the races, mild temperature and scarcely a breeze to handicap the runners. Everyone put his whole heart into the events, and the result was shown in the fighting finishes and fast times. The number of men who participated was much larger than usual, predicting a successful season for this popular sport.

**Dash Is Very Close**

The 45-yard high hurdles, which attracted only three entrants, was won by Lawrence '29 in 6 1/5 seconds. This race was followed by the three trial heats of the 35-yard dash. The first was won by Lynch '32 in 4 4/5 seconds, the second by Broder '31 in 4 3/5 seconds, and the third by Wayne '32 in 4 4/5 seconds. All three were won by a margin of less than one foot, and the survivors out of a list of fourteen entries were Lynch '32, Ladd '30, Broder '31, Jandris '30, Wayne '32, and Gonzalez '30. The finish of the final was the closest of the meet, all five place winners being within the margin of a foot at the tape.

**Mitchell and Hallahan Win**

The 8-lap race was the next with a field of twenty-one entrants. Poor, a freshman, set a fast pace from the start, and held the lead for four laps. At this point Herb Allbright worked up into first place and was soon passed in turn by Mitchell, a veteran cross country star. Allbright put up a fight but was unable to take the lead again, crossing the tape three yards behind Mitchell.

Fourteen men entered the four-lap race, which was won by Jack Hallahan, a member of last season's Varsity mile relay team. He started from scratch and ran a great race, beating out Goodhand '31 by at least ten yards. He showed good form and smooth running, that practically insures his place on the relay team this season.

**Two Races In 2-Lap Event**

Due to the large field of eighteen in the two lap race, it was divided into two sections. The winner of the first race was Lynch '32, who ran from scratch. The second was taken by Currier '31. Both were very close, being won on the last stretch before the tape.

The wind-up of the running events came with the half-mile race, which was six laps on the board track.

With twenty-two men starting, it looked like the start of a marathon. Rogers '32 worked up into first place early in the race and held it until finally overtaken by Berry '30, who ran a smooth race. The time was 2.02 4/5, which was very good on a crowded track.

#### Three Field Events Run

The field events were held in the Hangar while the races were in progress. The high jump was won by Phil Benjamin '31, who made a jump of 5 feet 10 inches. Second place was a tie between Danforth '31 and Lawton '32 at 5 feet and 7 inches.

The broad jump was won by Lawrence '29 with a distance of 18 feet 6 inches. In the shot put Rucker '31 took first place with a heave of 37 feet 4 inches, which gave him credit for 42 feet 4 inches when his handicap of five feet was added.

#### The summary:

45-yard high hurdles—Won by Lawrence; second, Burgess; third, Baltzer. Time, 6 1-5 seconds.

35-yard dash—First heat won by Lynch; second, Ladd. Time, 4 4-5 sec. Second heat won by Broder; second, Jandris. Time, 4 3-5 sec. Third heat won by Wayne; second, Gonzalez. Time, 4 4-5 sec. Final won by Wayne; second, Broder; third, Jandris; fourth, Ladd; fifth, Lynch. Time, 4 2-5 sec.

8-lap race—Won by Mitchell; second, Allbright; third, Baltzer; fourth, Herbert; fifth, Moody. Time, 2 min., 53 4-5 sec.

4-lap race—Won by Hallahan; second, Goodhand; third, Reynolds; fourth, Ladd; fifth, Kruegal. Time, 1 min., 16 sec.

2-lap race—First race won by Lynch; second, Barinaton; third, Burgess; fourth, Wilson; fifth, Filera. Time, 25 2-5 sec. Second race won by Currier; second, Kerisher; third, Beck; fourth, Wayne. Time, 37 sec.

6-lap race—Won by Berry; second, tie between Rogers and Baltzer; fourth, Jewett; fifth, Gilman. Time, 2 min., 2 4-5 sec.

High jump—Won by Benjamin; second, tie between Danforth and Lawton. Height, 5' 10".

Broad jump—Won by Lawrence; second, Benjamin; third, Roberts. Distance, 18' 6".

Shot put—Won by Rucker; second, Fraim; third, Worcester; fourth, Whitworth; fifth, Bailey. Distance, 12' 4".

### Marksmen Defeat 101st Infantry—Score 843-750

**Twarogowski Turns in Perfect Prone Target in Second M.I.T. Victory**

Winning their second shoulder-to-shoulder match this week was an easy task for the Technology riflemen. The 101st Infantry team fell victim to the Institute Varsity by the score of 843 to 750. Prone and standing positions were fired, each position with a possible score of 100 points per man. Twarogowski of M. I. T. turned in the high target of the match. His score was 177 out of a possible 200. Not content with the highest score in the standing position, he also handed in a perfect prone target of 100 points. The other M. I. T. men finished in the following order: Loomis 174; Orleman 171; Kohler 161; Hamilton 160.

This is the last match to be fired until after the holidays. The team also completed a telegraphic match with Kemper Military Academy, but the results will not be known until the Kemper targets are received. The match with the University of West Virginia that was scheduled for this week was postponed until February at the request of West Virginia.

Three telegraphic matches have been added to the winter schedule.

### GYM TEAM HAS NEW COACH TO REPLACE OLYMPIC GYMNAST

**Coach Hincks Has Largest Squad In Years from Which to Pick Varsity**

**TAKES PLACE OF PEARSON**

Edward W. Hincks, who was coach of the Technology Gym team for six years previous to two years ago, is back again coaching one of the biggest squads the team has ever had. Coach Hincks replaces Lieutenant Jack Pearson, a member of the last Olympic team who, while taking graduate work at the Institute, coached the Gym team. His graduation has necessitated procuring another coach, and Coach Hincks was picked on the basis of the fine work he did at the Institute two years ago. Coach Hincks is physical director at Thayer Academy, and coaches the Gym team on Tuesdays, Thursdays, and Fridays.

Among the twenty freshman trying out for the squad no particular talent has been noticed, except Ashley, of Newart Prep, and Barnett who have had experience in gym work.

In the last few weeks, there have been several accidents that have threatened to affect the work of the team, but in every case the men have speedily recovered and are back working out apparently as well as ever. Dave Wells, who placed in the Intercollegiate last year, broke his wrist in practice on the high bar, but is now back, and seems to be none the worse for his experience. Dolloff, who lost the Intercollegiate Tumbling Championship by one point out of a possible 1200, sustained a sprained wrist, but has recovered, and promises to be as invincible as he was last year.

#### Reynolds is Eligible

Among the outstanding men on the team, Reynolds, who on last year's ineligible team defeated the Intercollegiate Champion, Snively of Princeton, by 38 points in a dual meet, is eligible this year, and should win the Intercollegiate. Captain Fairchild has lowered his time in the rope climb, and is doing good work on the side-horse. Moore and Knapp, freshmen from last year, are giving Captain Fairchild competition, and will probably take his place on the Varsity next year.

Platt, also a freshman from last year, who was working on tumbling, has changed to the high-bar and is doing very well, being able to do many stunts difficult for experienced men. Also on the high-bar, and parallels are Fahnestock, Rowe, and Hill. On the rings Cooper, Sidur, Aros, and Spear have been doing very good work. Cooper of last year's Varsity, being especially good. Giving Dolloff competition in tumbling is Walker, who will furnish good material for the Varsity next year. There are 18 men trying out for positions on the team, eight of whom will be picked to represent the Institute in the Gym meets.

These include University of Pennsylvania, Columbia, and Carnegie Tech. The latter has a particularly strong team, and should offer stiff competition.

#### May Fire Matches With Foreign Team

It has also been announced that negotiations have been started for international matches. If successful, the Engineers will fire a telegraphic match with a Canadian team, and cable matches with one British and one Swiss team.

This year the team seems better balanced than ever before. If it keeps up to the high standard with which it started the season, the M. I. T. combination should win another New England Championship and another Hearst Trophy.

#### OFFICIAL

First-term reports will be mailed to the term addresses of students, February 1, 1929. In case of changes in term addresses after December 26, both the Records Office, Room 3-106, and the Information Office should be notified.

### Cardinal and Gray Five Wins Third Consecutive Victory By 44-10 Score

**Freshman Quintet Loses Hard Fought Game to Wentworth**

**Yearlings Lead at End of Half by a One Point Margin—Final Score 37-29**

After leading throughout the first half the freshman basketball team lost a hard fought game to Wentworth Institute by a score of 37 to 29 in the Hangar Gym Saturday night. The game was a thriller from start to finish as may be seen from the fact that at the half the Beaver yearlings led by a scant one point margin the score standing 18-17.

Wentworth had a considerably heavier and taller team than did the Cardinal and Gray yearlings and this is one of the chief causes for their victory. "Dub" Rash led the yearlings in scoring, getting five field goals and both free throws that he attempted. The little Kentuckian seemed to have little trouble in taking the ball away from the heavier and taller Wentworth players.

**Team Improves Considerably**

Improvement in every line of play was noticeable in the yearlings playing. The addition of Rickard as right guard in place of Sears seems to have greatly aided the teams performance. One of the most remarkable improvements was in the shooting of free throws as the yearlings made seven out of the twelve free throws that they attempted.

Joe Paul's dribbling has greatly improved over that of the Boston University game. He traveled down the floor with a good deal more accuracy and the Wentworth defense had considerable difficulty in taking the ball away from him. The team's shooting can still stand improvement although there were several heart-breaking shots where the ball rolled around the rim only to bounce out of the basket.

This is the last game the yearlings will play before Christmas, their next game being with Brown on January 9. In the meantime the team will work towards smoothing out their attack.

LINE-UP		G	F	P.
Rash, rf.	5	2	12	
Weller, lf.	0	0	0	
Ross, c.	1	2	4	
Pickard, rg.	2	2	6	
Paul, lg.	3	1	7	
<b>TOTALS</b>	<b>11</b>	<b>7</b>	<b>29</b>	
WENTWORTH		G	F	P.
Morse, rf.	5	2	12	
Dawling, lf.	4	0	8	
De Mille, c.	1	2	5	
Taylor, rg.	3	0	6	
Townsend, lg.	0	0	0	
Tripp, lg.	2	0	6	
<b>TOTALS</b>	<b>16</b>	<b>5</b>	<b>37</b>	

### AWARD NUMERALS TO '31 FOOTBALL TEAM

Awards of class numerals for the members of the 1931 Field Day Football Teams were passed upon at a meeting of the M. I. T. A. A. Executive Council which was held in Walker at 5 o'clock on Monday.

Members of the team who will receive their numerals are as follows: Gilbert B. Ayres '31, Robert H. Baxter '31, Wyman P. Boynton '31, Timothy P. Coffey '31, Arthur J. Demars, Jr. '31, Bror Grondal, Jr. '31, Harry Kamy '31, Robert Lamoretti '31, Robert J. McMinn '31, William T. Moody '31, Almer H. Orr, Jr. '31, James T. Snow '31, Frank Terdina, Jr. '31, John W. Wattendorf '31.

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**Engineers Lead All the Way—Second Team Used in Last Half**

(Continued from Page 1)

Bates at forward, McDowell at center, and Coffey and Dickenson taking charge of the defense.

**Passing Is Feature of Game**

Although Brig Allen led the scoring with seven field goals and three free throws for a total of seventeen points, it was the Cardinal and Gray's passing that was the big feature in the Engineers' victory. Free throw shooting showed a considerable improvement over last week's game, the Beavers making six out of fourteen possible shots.

In spite of the fact that the Blue-jackets missed a large percentage of the shots that they attempted, the Engineers defense looked good as the Gobs were only able to make two field goals throughout the entire game. Time and again Brockleman would take the ball away from the Newport forwards and send it down to the other end of the floor.

#### Bob Nelson Plays Well

Bob Nelson played a very good game being high point man during the first half. He had a much better fighting spirit than has been evident in the previous games and was in the thick of the fight throughout the entire game. He made five field goals and two out of the three free throws that he attempted.

One of the features of the game, was the initial appearance of the Dormitory cheering section. A fairly large number turned out to the game, and led by Glenn Andrews they gave much sport to the team. This is the first time in quite a while that the Hangar has experienced any organized cheering and the Dorm leaders are planning a cheering section for all of the remaining home games.

Wednesday night the Cardinal and Gray five meets Manhattan in what may be the crucial game of the year. Although not much is known about the New Yorkers they usually have a strong team and more than once have handed the Beavers a stinging defeat.

M.I.T.	G	F	P.	
Allen, rf.	7	3	17	
Harrison, rf.	1	0	2	
Nelson, lf.	5	2	12	
Bates, lf.	0	0	0	
Brockleman, c.	1	0	2	
McDowell, rg.	0	0	0	
Motter, rg.	1	0	2	
Lawson, lg.	4	1	9	
Coffey, lg.	0	0	0	
Dickenson, rg.	0	0	0	
<b>TOTALS</b>	<b>19</b>	<b>6</b>	<b>44</b>	
NEWPORT		G	F	P.
Edwards, rf.	0	2	2	
Baley, lf.	0	1	1	
Barton, lf.	0	0	0	
Bingaman, lf.	0	0	0	
Eberhard, c.	2	3	7	
Babowitz, c.	0	0	0	
Veckert, rg.	0	0	0	
Hoke, rg.	0	0	0	
Kochler, lg.	0	0	0	
<b>TOTALS</b>	<b>2</b>	<b>6</b>	<b>10</b>	



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## OFFICIAL BULLETIN

### MOTION PICTURES—PROVINCE OF ONTARIO, CANADA

Special showing of Films  
Through the courtesy of the Provincial Government  
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Tuesday, December 18, 4-5 P.M.  
Room 10-250

Members of The Staff and All Students invited.

### ECONOMICS

The following speaker will lecture before the class in Business Management in Room 1-190:

Mrs. L. M. Gilbreth  
Consultant in Management  
December 19, 9 A.M.

Subject: "New Approach to the Problem of Wage Incentives"

## CALENDAR

### Monday, December 17

5:00—M. I. T. A. A. Meeting, Committee Room.  
7:30—Tech Show Cast Rehearsals, West Lounge.

### Tuesday, December 18

7:00—Tech Show Chorus Trials, North Hall.  
7:30—Tech Show Cast Rehearsals, West Lounge.

### Wednesday, December 19

6:00—Alpha Chi Sigma Supper Meeting, North Hall.  
7:00—Mathematical Seminar, Faculty Dining Room.  
8:00—Varsity Basketball, M. I. T. vs Manhattan, Hangar Gym.  
9 am—"New Approach to the Problem of Wage Incentives" by Mrs. L. M. Gilbreth, Room 1-190.

### Thursday, December 20

4:00—Motion Pictures of Ontario, Canada, Room 10-250.  
6:00—Boston Theta Chi Club Dinner Meeting, Faculty Dining Room.

### Saturday, December 22

6:30—Chinese Students Club Dinner Meeting, North Hall and Faculty Dining Room.

## Away from the Grind

### DELTA UPSILON

The ten initiates of the Delta Upsilon fraternity were formally initiated and given a banquet at the Delta Upsilon House on Saturday evening. Several prominent alumni were present including Professor Frank Vogel, head of the German Department; Dr. Lyman C. Newell, head of the Department of Chemistry at Boston University. Representatives from nearly all of the New England chapters were present.

### LAMBDA CHI ALPHA

The Statler Hotel was the scene Friday night of the annual Tri-Zeta dance of the three Boston Zetas of Lambda Chi Alpha. About 125 couples were gathered at this joyous occasion, and all declared the affair a decided success. Alpha Zeta of Boston University did the engineering, and the music was provided by the Isle of Rhythm Orchestra. Specialty acts were given and favors in the shape of small leather-covered vanity cases were distributed. Alpha Zeta of Harvard was the third chapter of the group.

### PHI GAMMA DELTA

A small closed dance was held at the Phi Gamma Delta House last

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I am in entire agreement with his statement.

Yours faithfully,  
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Friday night. Dick Edward's Orchestra furnished the music, and there were about fifty bids sent out.

### PHI KAPPA

The Phi Kappa house was also the scene of a formal initiation supper last Saturday night.

### PHI KAPPA SIGMA

Twenty-eight Phi Kaps entertained their guests at a formal dinner at the Hotel Kenmore last Saturday evening. Professor J. Warren Barker '16, and Lieutenant and Mrs. Samuel G. Frierson were the chapter's guests at this, their annual closed affair.

After the dinner, the party adjourned to the house at 530 Beacon Street, where Ruby Newman's Orchestra was already playing. Here they were joined by some of the brothers and alumni who had not been able to go to the dinner, and the group enjoyed the evening immensely.

Appropriate Christmas decorations had been tastefully arranged under the guidance of Dick C. Holihan '31, and a big Christmas tree made the whole function a gayly brilliant epsilon affair.

### SIGMA CHI

Masques and mistletoe were the features of the Yuletide dance given by Sigma Chi on Friday evening. Holly-wreaths, soft green and red lights, and a huge Christmas tree added to the holiday spirit, and the black and white masques presented to each entering guest created a feeling of camaraderie quite in keeping with the occasion. Boston's attempt at winter weather proved too warm for keeping the masques on long, but by the time they were discarded everybody was well acquainted. Ruby Newman and his Ritz Carlton Orchestra furnished peppy music for the occasion and a great majority of the 150 invited guests attended.

### SIGMA NU

At the Sigma Nu house on Saturday night, there was great difficulty in persuading the guests to leave. The occasion was an informal closed dance. There were fifteen couples present, and the party was chaperoned by Mr. and Mrs. Burnett H. Brown. At about 11:30 refreshments were served.

### TAU BETA PI

Initiation of thirteen Technology undergraduates into Tau Beta Pi, national engineering honorary scholastic fraternity, took place at the Engineer's Club last Saturday evening. In addition to these men, Charles A. Stone '88 of Stone & Webster was also initiated as an honorary member.

The formal ritual began at 6 o'clock, followed by a dinner in honor of the new men. Mr. Stone gave a short informal talk at this time, and an interesting talk was also given by Professor Vannevar Bush.

### THETA CHI

The annual closed Christmas dance of the Theta Chi's took place Saturday night, with the Techtonians furnishing the music. A few alumni attended besides the regular members. After the dance, a supper was served.

## Public Attends Science Lectures At The Institute

Professor H. M. Smith is Speaker on First Society of Arts Program

(Continued from Page 1)

tem of lighting; helium; krypton, the "hidden-one;" and xenon, the "stranger" were the next to be described. Helium, which neither burns nor supports combustion but has a buoyant effect is the next lightest gas to hydrogen, and is used in dirigibles.

### Laughing Gas

Nitrous oxide, a "laughing gas," which is used in dentistry as an anesthetic and mixed with oxygen for more serious operations was spoken of by Professor Smith. Fruit ripened in ethylene, a gas formed in the distillation of soft coal and in the process of cracking petroleum in the manufacture of gasoline, was exhibited and the use of the gas by fruit companies was explained. Chlorine, used to bleach cotton cloth, for purifying water, and recently in the treatment of respiratory diseases, was the next gas to be described.

Methane, an "explosive gas," the constant source of worry to miners', sulphur dioxide, an "industrious gas," the basis of many industries; and hydrogen sulphide, the "vile gas," were all explained to the enthusiastic audience.

### Deadly Carbon Monoxide

The last gas to be described was the deadly carbon monoxide. Professor Smith showed the many ways in which this insidious gas, which has no odor or color, causes death. The majority of its fatalities are caused by people running a machine inside a garage with the doors closed. The dangers of the gas were shown first by its effects on a white mouse and then by a picture, "Carbon Monoxide, the Inseen Danger" produced by the United States Bureau of Mines.

## The Open Forum

(Continued from Page 2)

be done. Other points worth emphasizing are the vastly superior character of European secondary education -- education in our high schools seems to consist in a vicious circle in which the incompetently trained pupils of one generation train still more incompetently the pupils of the next --; the greater respect for the individual as opposed to the bricks and mortar of college buildings and the red tape of college offices; and the willingness of the experimenter to make the best of inadequate accommodations and apparatus, instead of waiting, as does so often his American colleague, to be spoon fed with five-figure appropriations and a surfeit of secretarial and academic assistance. To sum up, what American scholarship needs is a good dose of national poverty and adversity, say a first-rate business panic, to scare the diletantes out of our student into our population a respect for competent workmanship and the competent workman.

Norbert Wiener

## As We See the Movies

### METROPOLITAN

Rather regrettable in our opinion is the tendency of the Metropolitan Theatre to sacrifice its film standard to that of its stage presentation, for however excellent the musical production becomes, the movie program is sure to suffer. This week, for instance, the stage offering includes many nationally famous stars, all playing to an enthusiastic audience, an audience however that cannot refrain from laughing at and not with the stars on the screen.

Ad Carter in person, the originator of the "Just Kids" comic strip, three members of the Pat Rooney family, and Anna Chang, filled with an irresistible Oriental personality, together with the ever-popular Gene offer a program of song and dance which has seldom been surpassed on the Boston stage. The chorus is different, the novelties are really new, and the entire arrangement could bear a little improvement.

On the screen, however, Buddy Rogers and Mary Brian indulge in the usual light comedy romance, poorly cast, with a few new twists of plot. Rogers is quite obviously the youngest star in Hollywood, and in "Someone to Love" certainly shows his youth. There is little we can add; if you like that sort of thing, all well and good; we don't.

## AUTO'S FUTURE IS LECTURE SUBJECT

General Motors Representative Speaks Before Faculty Club Meeting

"The Future of The Automobile Industry" was the title of a lecture given by Mr. Henry M. Crane '95, before the meeting of the Faculty Club in North Hall last Friday noon. Mr. Crane is Technical Assistant to the President of the General Motors Corporation.

Mr. Crane outlined his opinions as to the future of the automobile, indicating that he considers the prospects very bright. He discussed the competition that aviation is giving the industry, and gave it as his belief that aviation is properly a branch of the automotive field. Speaking of the construction of autos, he mentioned the cheapness of their manufacture, reminding his audience that the average automobile sells for about eighteen cents a pound.

Mr. Crane added to his talk a few useful hints on educational problems. He believes that it is very important to stimulate the vision of students, in order that they may foresee the future developments possible in the line of work they are undertaking.

The meeting was probably the best attended of any Faculty Club meeting so far this year, as about one hundred members of the Faculty were present.

## LOWELL INSTITUTE PRESENTS LECTURES

Prof. Sachs to Give Series on "History of Drawings"

"Is Our Climate Changing?" will be the topic of the lecture to be given by Professor Robert De C. Ward of the Climatology Department of Harvard University at Huntington Hall tonight. This is the eighth and concluding lecture to be given by Professor Ward on the subject of "Man and His Climate." This series of free public lectures is being presented under the auspices of the Lowell In-

## LEO REISMAN WILL FURNISH PROM MUSIC

Tickets Will be on Sale at the Beginning of Next Term

(Continued from Page 1)

made by Andrew Carnegie, Andrew Mellon, Marshall Field, and a large list of other well-known people. Three years ago the orchestra was paid \$3000 to play from ten o'clock in the evening until five in the morning at a party given by James D. Rhodes, a prominent Pittsburgh millionaire.

Five years ago this orchestra played at the B. F. Keith Theatre in Boston for a week. It is the only Boston orchestra ever to be headlined in the Keith circuit.

Leo Reisman played musical programs from two of the world's largest broadcasting stations W. E. A. F. and W. J. Z. last summer. During several of his performances he was co-starred with Moran and Mack, "The Two Black Crows."

### Many College Engagements

During the past few years Reisman has played at a large number of college social functions, from dinner dances to proms. These include engagements at M. I. T., Harvard, Yale, Wellesley, Dartmouth, Williams, Radcliffe, Brown and numerous other New England colleges. At the Junior Promenade on February 21, Reisman will be present in person to conduct his orchestra during the major part of the evening.

Tickets for the prom will probably not be on sale before the first part of the second term of school. At present the Junior Prom Committee is making arrangements and plans for the evening's program and they will be definitely announced at some later date.

stitute. Tickets may be secured by applying to the Curator of Lowell Institute.

Paul J. Sachs, Professor of Fine Arts at Harvard University will deliver the next series of lectures that the Institute will present, beginning on January 4. The topic of this series will be "The History of Prints and Drawings as Illustrated in American Collections."

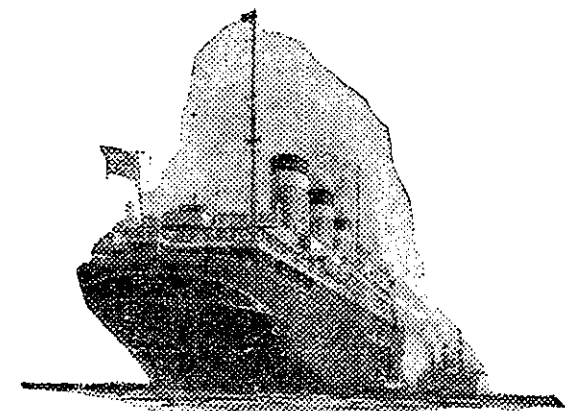
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