**World War Department Re-estabishes Air Training Unit in R. O. T. C. Advanced Course at Technology**

**Sophomores Try to Mar Freshman "Tie Ceremony"**

Stolen First Casket, But Fail When Questioned To Tell The Gap

**Prof. Greene Orates**

Stirred to wrath by a tactical muddle of the freshman dance committee, a large number of sophomores asserted themselves at the last minute to disrupt the "tie ceremony." At the last moment, in the main lobby of the Great Court of the Institute, at 11 o'clock, the caskets were borne in on the shoulders of six burly persons, designated as MS31, those men designated as "officers," and the caskets were supposed to be the remains of the members of the freshman dance committee. One of the invaders informed the committee that he had been authorized by the freshman dance committee to "crash" the party and that the event was supposed to be a "show." A special arrangement was to be made to enable all sophomores in Course XVI to sign for the advance tickets in the Air Force, as they desire. Junior, of Course XVI, who was not now on the advanced course, was able to sign for the event at the beginning of the second term with one extra hour a week, to spend driving in study hours.

**May Transfer**

Qualified Juniors, in either units, will be permitted to apply for transfer to the Air Force in February. Since the freshmen sign for the Junior year consists entirely of defaulter, designated as MSIII, those men at present in either unit will have extra work of any sort. Sophomores will be in any way affected by the change in policy, so the Air Force is still operating at the Institute.

**Special Exception Made**

In the case of Col. J. C. Arthur said that, so far as he has been able to ascertain, the special exception made to the Army's decision to re-engage the uncommissioned training graduates will no longer be available. Those training graduates, who have been commissioned and who have been ordered to the government's service, if they so desire. Juniors, of Course XVI, who were not now on the advanced course, were able to sign for the event at the beginning of the second term with one extra hour a week, to spend driving in study hours.

**Officers Given a Record of Events**

Air Training Unit in R. O. T. C. Advanced Course at Technology

**Sophomores Try to Mar Freshman "Tie Ceremony"**

Stolen First Casket, But Fail When Questioned To Tell The Gap

**Prof. Greene Orates**

Stirred to wrath by a tactical muddle of the freshman dance committee, a large number of sophomores asserted themselves at the last minute to disrupt the "tie ceremony." At the last moment, in the main lobby of the Great Court of the Institute, at 11 o'clock, the caskets were borne in on the shoulders of six burly persons, designated as MS31, those men designated as "officers," and the caskets were supposed to be the remains of the members of the freshman dance committee. One of the invaders informed the committee that he had been authorized by the freshman dance committee to "crash" the party and that the event was supposed to be a "show." A special arrangement was to be made to enable all sophomores in Course XVI to sign for the advance tickets in the Air Force, as they desire. Junior, of Course XVI, who was not now on the advanced course, was able to sign for the event at the beginning of the second term with one extra hour a week, to spend driving in study hours.

**May Transfer**

Qualified Juniors, in either units, will be permitted to apply for transfer to the Air Force in February. Since the freshmen sign for the Junior year consists entirely of defaulter, designated as MSIII, those men at present in either unit will have extra work of any sort. Sophomores will be in any way affected by the change in policy, so the Air Force is still operating at the Institute.

**Special Exception Made**

In the case of Col. J. C. Arthur said that, so far as he has been able to ascertain, the special exception made to the Army's decision to re-engage the uncommissioned training graduates will no longer be available. Those training graduates, who have been commissioned and who have been ordered to the government's service, if they so desire. Juniors, of Course XVI, who were not now on the advanced course, were able to sign for the event at the beginning of the second term with one extra hour a week, to spend driving in study hours.

**Officers Given a Record of Events**

Air Training Unit in R. O. T. C. Advanced Course at Technology

**Sophomores Try to Mar Freshman "Tie Ceremony"**

Stolen First Casket, But Fail When Questioned To Tell The Gap

**Prof. Greene Orates**

Stirred to wrath by a tactical muddle of the freshman dance committee, a large number of sophomores asserted themselves at the last minute to disrupt the "tie ceremony." At the last moment, in the main lobby of the Great Court of the Institute, at 11 o'clock, the caskets were borne in on the shoulders of six burly persons, designated as MS31, those men designated as "officers," and the caskets were supposed to be the remains of the members of the freshman dance committee. One of the invaders informed the committee that he had been authorized by the freshman dance committee to "crash" the party and that the event was supposed to be a "show." A special arrangement was to be made to enable all sophomores in Course XVI to sign for the advance tickets in the Air Force, as they desire. Junior, of Course XVI, who was not now on the advanced course, was able to sign for the event at the beginning of the second term with one extra hour a week, to spend driving in study hours.

**May Transfer**

Qualified Juniors, in either units, will be permitted to apply for transfer to the Air Force in February. Since the freshmen sign for the Junior year consists entirely of defaulter, designated as MSIII, those men at present in either unit will have extra work of any sort. Sophomores will be in any way affected by the change in policy, so the Air Force is still operating at the Institute.

**Special Exception Made**

In the case of Col. J. C. Arthur said that, so far as he has been able to ascertain, the special exception made to the Army's decision to re-engage the uncommissioned training graduates will no longer be available. Those training graduates, who have been commissioned and who have been ordered to the government's service, if they so desire. Juniors, of Course XVI, who were not now on the advanced course, were able to sign for the event at the beginning of the second term with one extra hour a week, to spend driving in study hours.

**Officers Given a Record of Events**

Air Training Unit in R. O. T. C. Advanced Course at Technology

**Sophomores Try to Mar Freshman "Tie Ceremony"**

Stolen First Casket, But Fail When Questioned To Tell The Gap

**Prof. Greene Orates**

Stirred to wrath by a tactical muddle of the freshman dance committee, a large number of sophomores asserted themselves at the last minute to disrupt the "tie ceremony." At the last moment, in the main lobby of the Great Court of the Institute, at 11 o'clock, the caskets were borne in on the shoulders of six burly persons, designated as MS31, those men designated as "officers," and the caskets were supposed to be the remains of the members of the freshman dance committee. One of the invaders informed the committee that he had been authorized by the freshman dance committee to "crash" the party and that the event was supposed to be a "show." A special arrangement was to be made to enable all sophomores in Course XVI to sign for the advance tickets in the Air Force, as they desire. Junior, of Course XVI, who was not now on the advanced course, was able to sign for the event at the beginning of the second term with one extra hour a week, to spend driving in study hours.

**May Transfer**

Qualified Juniors, in either units, will be permitted to apply for transfer to the Air Force in February. Since the freshmen sign for the Junior year consists entirely of defaulter, designated as MSIII, those men at present in either unit will have extra work of any sort. Sophomores will be in any way affected by the change in policy, so the Air Force is still operating at the Institute.

**Special Exception Made**

In the case of Col. J. C. Arthur said that, so far as he has been able to ascertain, the special exception made to the Army's decision to re-engage the uncommissioned training graduates will no longer be available. Those training graduates, who have been commissioned and who have been ordered to the government's service, if they so desire. Juniors, of Course XVI, who were not now on the advanced course, were able to sign for the event at the beginning of the second term with one extra hour a week, to spend driving in study hours.
COMBINED STUDY OF CARDIOGRAPHY EFFECTS RESULTS

Research Workers Announce New Medical Instrument In Review Story

An exposition of the substance, development, and results of cardiographic research is presented in this month's Technological Review by Professor Vannevar Bush, head of the department of Electrical Engineering, and W. D. Reid, of the Evans Memorial Hospital.

In 1887, Waller did the first work in this field with his capillary electrometer. He had already been demonstrated that there were slight differences of potential connected with muscular and nervous action, so it remained only to perfect an instrument for measuring these phenomena accurately.

First Obtained in 1913

Boytin and starting cardio grams in 1913 showing the cyclic action of the normal heart. When Boytius and the swinging galvanometer, results were greatly improved, and this has been the method and up to the present time. With the development of the thermionic tube, it was possible to record action which varied rapidly or functionally weakened.

This instrument, which records with a current as low as 30-50 billion, has already extended the range of frequencies and enlarged the recording field. The cardiograph, with the graph of a normal heart as a standard, allows the detection of irregularities such as fluttering, hiccups, and extrasystoles, as they are called by analogy with mechanical motors.

The Evans Memorial Hospital has been closely connected with the Institute Department of Electrical Engineering in all research on cardiography. The result of their collaboration is this new and superior instrument which this article announces.

SEE ENGINEERING AS SOCIAL FORCE

That the advances made in the last century may be attributed to science as shown in an article by Dr. Karl T. Compton, president ofmit of power, science and engineering, the years of youth may be devoted to education, the average person is freed from the constant thought given to self-preservation, and leisure time affects mental as well as physical happiness and progress.

To those who wonder that the machine age is the same as economic evil, the author quotes the story of the machines and the development of social systems. It is a description of the problems of the modern machine age. The article is accompanied by a tabular outline of the world's major industrial production industries.
NEW YEAR'S and no news combine together for a new column. Since the contents of sports columns are ordinarily light, this one will certainly keep up the tradition. With the imminent arrival of a new semester, the beginning of Technology this season, the department must break out with the news.

Technology's two major winter sports, basketball and hockey, are enjoying varying degrees of success. The basketballs got off to a big start, with those O'reilly do all of the shoving. Newport Navel was a setup for the Beavers, with the Crimson Independants the first real test for the Engineers. Successful in this game, the basketball team dropped its third game to Rhode Island, to crash all Beaver hopes for the present season. Will Hoyt contributed the most, as he has in the past.

Hockey got its first setback this season when an inexperienced coach took the place of the veteran Stewart. Since that time they have shown remarkable total lack of teamwork and offensive play. Last season Coach Stewart was paying for a goal, for he had good offensive and defensive talent.

### BEAVER BRAWN

Wednesday, January 6, 1932

Page Three

**First Game For N. U.**

Having had plenty of opportunity to practice during the holidays, a laden, and a better-conditioned Technology hockey team will go on the ice tonight, when the Beavers will meet Newport Navel at 8 o'clock. For the other half of the ball is the Boston hereafter the Beavers are almost certain to return on the following Tuesday after-what will leave on Saturday afternoon at the

### Second Handicap Meet of Season Very Successful

Freshmen To Meet Anandover For First Time In Track Meet

VARSITY MEN DO WELL

In the second handicap track meet of the season for the freshman and varsity runners, which was held on the Providence YMCA course on Saturday afternoon, the Crimson Independent varsity team led Anandover's very fine running. The events run off were the 100- and 200-yard dashes, 400-yard dash, 880-yard run, 600-yard run, 5000-yard run, and the 4x100-yard relay. As it proceeds the meet services were run in three heats. The freshmen and varsity competitors run in separate total laps and their final heat was made up of the winners of each.

### Proctor Track Starts indoors


### Seniors Admitted Free Of Charge To Class Dance

Will Meet Expenses With Funds From Class Treasury;

One week from this Friday, the Class of 1932 will enjoy its annual spring, the Senior Class. All expenses of the affair will be borne by the members of the class, for the good of the Society. Because of this fact, and also due to the fact that the season is over, the class is planning to make a fine start for the annual Senior varsity track meet again this year.

Following the usual procedure in the matter, the officers of the junior class will act as stewards for the dance. Also in keeping with the established tradition, the freshmen of the class this year, the President of the Institute and his two guests, will act as stewards for the dance.

### Food Will Be Served

Ice cream and cake will be served in the Ballroom.

### Summary of the Second Handicap Meet of the Season

<table>
<thead>
<tr>
<th>Event</th>
<th>Varsity</th>
<th>Freshman</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-yard dash</td>
<td>10.5</td>
<td>11.0</td>
</tr>
<tr>
<td>200-yard dash</td>
<td>21.5</td>
<td>22.0</td>
</tr>
<tr>
<td>400-yard</td>
<td>50.0</td>
<td>51.0</td>
</tr>
<tr>
<td>880-yard</td>
<td>2:10.0</td>
<td>2:15.0</td>
</tr>
<tr>
<td>4x100-yard</td>
<td>40.0</td>
<td>42.0</td>
</tr>
</tbody>
</table>

### Second Game to Be Hot

Considering the game of hockey played last year the Huskies beat Technology on January 5 at the Arena and the Beavers seem to have

### Ticket Sales

According to age-old custom, tickets were put on sale at Rogers Building.

### VARSITY MEN DO WELL

For the other half of the twin bill, the team will

### Another Successful Rental Season for Our Double-Breasted Tuxedo

At student rate of $5.25 Single Breasted $1.50

### BEAVER BRAWN

### Will Recuperate At Mt. Monadnock After Term Examinations

Students To Spend Four Days At The Ark Following Examinations

Two new very important continuations of playing the game being orga- nized by the T.C.A. for a trip to Monad-nock Mountain to be held after the mid- term examinations. Calvin R. More, is appointed by the Executive Com- mittee of the T.C.A. to arrange for the trip and has a number of letters from last year's group who are at Technology in the present grade.

### Railroad Leader Will Give Second Aldred Lecture

Lucas S. Stross will speak about "Engineering Experiences"

Lucas S. Stross, president of the United Railways and Electric Company of Balti- more, will deliver the second Aldred Lecture at the Massachusetts Institute of Technology on January 6, 1932, at 8:15 o'clock in the evening in the Ether Dome.

Mr. Stross has long been prominent in railroad business circles and is well known in New England. He was formerly president of the New York, New Haven and Hartford Railroad and president of the New England Investment and Security Company. From 1893 to 1925, Mr. Stross served as a director of the Connecticut Company in New Haven, organizing which he was managing director of the American Electric Railways Company for four years. He has occupied his present position as chairman and president of the United Railways and Electric Com- pany for five years.

Mr. Stross is a graduate of the Univer- sity of Virginia (1892). He received the degree of Master of Arts in 1894 from the same institution, and in 1907 the honorary degree of doctor of engineering. Mr. Stross is a member of Oil and Gas Journal, and the American Association for the Advancement of Science.

### New ALUMNI HALL TALKS ON YEAR'S BUSINESS

Two Hundred Graduates Of Course XV At Conference

(Continued from page one)

### Economic Conditions

Mr. Stross spoke on "Engineering Experiences" at the Massachusetts Institute of Technology on January 6, when he will speak on "Engineering Experiences".

Mr. Stross has long been prominent in railroad business circles and is well known in New England. He was formerly president of the New York, New Haven and Hartford Railroad and president of the New England Investment and Security Company. From 1893 to 1925, Mr. Stross served as a director of the Connecticut Company in New Haven, organizing which he was managing director of the American Electric Railways Company for four years. He has occupied his present position as chairman and president of the United Railways and Electric Com- pany for five years.

Mr. Stross is a graduate of the Univer- sity of Virginia (1892). He received the degree of Master of Arts in 1894 from the same institution, and in 1907 the honorary degree of doctor of engineering. Mr. Stross is a member of Oil and Gas Journal, and the American Association for the Advancement of Science.
Undergraduate Notices

Faculty Photos
Members of the Faculty are urged to appear at the Technology Photo Service as soon as possible to have their pictures taken for the 1932 Yearbook. There is not much time remaining, so it is advisable to have every member represented.

Biological Society
There will be a meeting of the Biological Society on Wednesday, January 13, at 7:30 o'clock in the Rensselaer Rogers Room of the Institute. There will be a short business meeting followed by a talk by Professor F. K. Moran of the Geology Department. He will talk on "The Earth and Life." This is to be an illustrated lecture and should prove most interesting and instructive to the biology student. All will hear with interest.

Brayre Key Society
The Brayre Key Society will build a monument in honor of West Lecture of Walker Memorial at 5 o'clock.

Infermity List
Berlin, James '34
Clapp, Warren '35
Foran, Robert '32
Knol, Walter '32
Ruber, William (employee)
Weber, Carl (employed)

Brooks Hospital
Austin, Charles '36

Air Corps Unit to be Continued Here

War Department Decides on Acceptance Following Pilot

(Continued from preceding page)

been made entirely as a result of a strong movement initiated by President Coolidge last year, when the removal at Tech was announced.

Announcement had been made last October by the War Department that the State of Massachusetts had asked the United States to take over the facilities of the Massachusetts Institute of Technology at Cambridge for use as a military flying school. Some 570 officers and men of the Army's 2nd Air Force were thus to be transferred to the service of the good deal this year, as previously.

In the rat race underwriting war work, Harvard, however, the vacation, and few were reluctant. Harvard's and the Air Force. Harvard's and the Air Force.

Amidst the rumbles of the cold war, Harvard, however, the vacation, and few were reluctant. Harvard's and the Air Force.

Air Force.

Amidst the rumbles of the cold war, Harvard, however, the vacation, and few were reluctant. Harvard's and the Air Force.

Air Force.

Amidst the rumbles of the cold war, Harvard, however, the vacation, and few were reluctant. Harvard's and the Air Force.

Amidst the rumbles of the cold war, Harvard, however, the vacation, and few were reluctant. Harvard's and the Air Force.

Amidst the rumbles of the cold war, Harvard, however, the vacation, and few were reluctant. Harvard's and the Air Force.

Amidst the rumbles of the cold war, Harvard, however, the vacation, and few were reluctant. Harvard's and the Air Force.