

# THE TECH

VOL. XXX. NO. 33

BOSTON, MASS., SATURDAY, NOVEMBER 12, 1910

PRICE TWO CENTS

## FIFTH ANNUAL TECH SHOW KOMMERS DINNER

Prominent Chorus "Girls" of Former Shows to Be Present.

### OLD "STUNTS" GIVEN.

Several Good Speakers Obtained—Dinner Will Be Informal.

General Manager I. W. Wilson is all ready to start the ball of fun rolling tonight, when the ever-joyful Tech Show crowd get together to celebrate the fifth annual Tech Show Kommers dinner. This dinner is the only one of the year open to men of all classes, and the Union dining room is bound to echo forth cheers and songs of all varieties. This dinner is bound to be



MANAGER I. W. WILSON

the liveliest one ever, and those men who have attended one of the former dinners will need no urging to be present. It has also been rumored that several fair "Chorus Girls" who starred in former Tech Shows will be at the dinner to help make merry.

Toastmaster Wilson is going to make the dinner an informal affair. Several good speakers have been obtained who will give short speeches.

Several old show men will be called upon to tell of their past experiences in Tech Shows. The advice and experience of these men will be mighty valuable to the men who expect to come out for the show a little later in the year. After the dinner is over the fellows will adjourn to the living room, where several "stunts" from former shows will be repeated.

All men who expect to come are urged by the management to get their tickets today at the "Cage" as early as possible so that satisfactory arrangements can be made with the dining room. A good time and a good dinner for fifty cents. Be one of the happy crowd. Show your Institute spirit by backing up Tech Show from the start.

## MR. MERRILL GIVES SECOND TALK ON AVIATION.

Shows That Biplane Can Be Built Equal in Speed to Monoplane.

The second of the series of lectures given by Mr. Merrill before the Tech Aero Club was given last evening at the Union. Even a larger and more enthusiastic audience than before was in evidence, and the meeting was successful in every detail.

(Continued on Page 2.)

## ARBITRATION AMONG ALL THE NATIONS

Discussed by Samuel J. Elder at Convocation Yesterday—Many Present.

### FISHERY ARBITRATION.

Recent Congress to Decide British-American Dispute Described.

"The main object of these meetings," declared President Maclaurin at the beginning of yesterday's convocation in Huntington Hall, "is to let into our minds which are laden with the air of scientific laboratories some fresh air from the great outside world."

The President then introduced Mr. Samuel J. Elder, one of the recent counsels for the United States at The Hague conference for the arbitration of certain fishery disputes with Great Britain. The first recommendation for arbitration of international troubles was made by Sully, Minister to Henry IV, about three hundred years ago. It has only been in the last century, however, that the idea has been really put into use.

In 1819, after the close of the War of 1812, the world's first peace society was formed by the Society of Friends. In 1825, the American Peace Society was organized, and in 1833 a petition was sent to Congress asking that the United States make no further treaties except when the treaty stipulated that all disputes be submitted to a court of arbitration. In 1845 Parliament was presented with a similar petition, but this was not granted until 1875. Other countries adopted like resolutions.

In 1898, the Czar of Russia sent a note to all the nations asking them to send a representative to The Hague to a congress for the consideration of the reduction of armament, the humanization of warfare, and the establishment of a permanent international court of arbitration. Nineteen countries responded to the request, and though the first two questions were unfavorably decided upon, it was determined that "all questions of a legal nature, except those dealing with matters regarding the independence, vital interests, or honor of a country, should be submitted to the tribunal of The Hague for judgment."

There have been in the last century fourteen cases of arbitration between England and the United States. Some of the most important of these have dealt with the St. Croix River as a boundary line, English Privateers (after Civil War), Fisheries (1878), Behring Sea (1893), and the Alaskan Boundary dispute (1903).

There are now thirty nations represented at The Hague. Each country selects four judges of the highest calibre, and the exact judge to decide a given difficulty are chosen from these.

In the last court the judges were Judge Gray of Delaware, Sir Charles Fitzpatrick, Chief Justice of Canada, and men of high repute from Austria, the Netherlands and Argentina. The questions were based on the treaty of 1818, about Fisheries. It was recommended that a ten-mile limit of width should be fixed for bays except in certain cases, and Great Britain was asked to submit all legislation in regard to American fishermen in her dominions to the approval of the United States, or to that of The Hague tribunal. Five other questions were decided in favor of the United States.

President Maclaurin expressed the appreciation of the audience to Mr. Elder, and the meeting adjourned.

## MECHANICALS HEAR A. S. M. E. LECTURE

Mr. D. T. Randall Speaks On Smoke Abatement in New England.

### GREAT ENGINEERING PROBLEM.

Many Practical Hints as to Proper Kind of Coal and Amount of Air Admitted.

At the monthly meeting of the Boston Section of the American Society of Mechanical Engineers, held in the Edison Building on Boylston street, Thursday evening, a paper entitled "The Problem of Smoke Abatement in New England" was read before the society by Mr. D. T. Randall, engineer in charge of fuel testing for the Arthur D. Little Company.

Mr. Randall's paper dealt especially with hand fired furnaces. He claimed that the abatement of smoke was an engineering and not a legislative problem, and gave two ways in which smoking may be improved or eliminated—by changing the fuel or by changing the conditions under which the fuel is burned.

In choosing a coal for use in a given plant the following points should be considered:

- 1.—The amount and character of the volatile matter in the fuel.
- 2.—The amount of ash and its tendency to clinker.
- 3.—The moisture in the coal.
- 4.—The coking and caking qualities of the coal when heated.
- 5.—The size of the coal.
- 6.—The amount of coal to be burned in a given furnace.
- 7.—The kind of furnace—hand fired or automatic.
- 8.—The draft available and its regulation.
- 9.—The character of the load—steady or variable.
- 10.—The ability of the firemen.

The paper then took up at some length the matter of proper mixture of the combustible gases, the proper amount of draft, the use of steam jets in this connection, the design of the combustion chamber, and the use of automatic stokers.

Examples taken from a large number of tests were given which showed a great loss of combustible CO, due to poor damper regulation, too thick a fire, too heavy and intermittent firing and poorly designed combustion chambers.

General deductions may be drawn as follows:

(a) Plain and hand fired furnaces may be operated with but little smoke with low volatile coals, or, in some cases, with other coals if the rate of combustion is low.

(b) Hand fired furnaces with brick arches, etc., are more easily operated without smoke than the plain furnaces.

(c) Almost any hand fired furnaces may be operated by means of steam jets so as to produce but little smoke.

(d) While all the above may be accomplished with a skilled fireman, such plants cannot be depended upon for smokeless results at all times.

Experience has shown that a change of fuel or a change of fireman may cause them to become smoky plants.

(e) Stokers without suitable combustion chambers or when improperly operated may be expected to smoke.

(f) Experience has shown that the best stokers, properly installed, are superior to hand fired furnaces for economy and smokelessness.

In concluding, smoke from power plants may be greatly reduced by

(Continued on Page 3.)

## INTERCOLLEGIATE CROSS-COUNTRY TODAY

Coach Kanaly Expects Team to Place Second For the Third Consecutive Time.

### MICHIGAN HAS STRONG TEAM.

Cornell Logical Choice For First—Harvard Expected to Finish Well to the Front.

The annual Intercollegiate Cross-Country run will be held this morning at 9 A. M., at Princeton, N. J. As usual, ten colleges will participate, they being Cornell, Harvard, Dartmouth, Michigan, Penna., Princeton, Yale, Columbia, College of the City of New York and M. I. T. Two years ago the run was held over this same course and Cornell won an easy victory, Tech finishing second. Last year our own Technology course was used, Cornell again winning with Tech close on her heels. Cornell is expected to repeat another victory this year without any great difficulty. Coach Moakley has developed a well-balanced team, and with several new men who have been making even better time than Berna, sees no reason why his team should be hard pushed.

The Harvard squad is expected to finish well up among the leaders from the showing which they made in the recent runs against Yale and Technology. They are handicapped, however, from the fact that Jacques, the individual star of the team, is in poor condition, due to getting cold during the Yale run, which was held in a drizzling rain. He will run, however, and with Lawless should finish early in the race. The team which Coach Shrubbs has chosen is as follows: Capt. H. Jacques, Lawless, P. Withington, Viets, Groves, Nichols, Everett and Burrage.

Coach Kanaly of the Tech team feels that the squad has a good chance to make second place for the third time in view of the excellent team work which has been shown in the races thus far this year. He feels that the temporary soreness of Watkins, Mills and Cartwright will wear off easily and that only Cornell will lead Tech at the finish. Manager Benson is not so optimistic, however. He thinks that in view of the recent unfortunate disasters at the hands of Harvard and Brown, the team should not be expected to do as well as it has the last two years. On account of the poor condition of Capt. Watkins' ankle, he does not hope to pull better than second or third position. He picks Cornell for first and Harvard second. The M. I. T. team will be Capt. H. G. Watkins, Manager H. S. Benson, E. E. Ferry, R. M. Ferry, K. Cartwright, W. S. Davis, L. O. Mills.

(Continued on Page 3.)

## CALENDAR.

### Saturday.

Intercollegiate Cross-Country Race at Princeton, N. J.

Hare and Hounds' Run over Handicap Course.

Tech-Columbia Telegraph Rifle Meet.

6.30 P. M.—Tech Show Kommers Dinner—Union.

7.30 P. M.—Orchestra Rehearsal—Union.

8.00 P. M.—Cosmopolitan Club—Club Room.

### Monday.

4.00 P. M.—Mandolin Club Rehearsal—Union.

5.00 P. M.—Basketball Practice—Gym.

# THE TECH

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SATURDAY, NOVEMBER 12, 1910.

In order to facilitate arrangements and economize time, the Institute has set definite hours for the beginning and ending of each exercise. But procrastination is now almost a recognized custom. This was particularly noticeable in the convocation yesterday which the President had called for 2 P. M., but men came in as much as twenty-three minutes past the hour, with only seven minutes of grace before the end of the half hour. Now it is extremely difficult to secure as speakers from the "activity of the outside world" men of the calibre of Samuel J. Elder, a man of international fame in peace conference work, and it was exceedingly discourteous to interrupt his talk.

Time is one of the most important considerations of our life here and after the Institute, and it is essential that we learn it here if we have not done so before. Moreover, it is far better not to come at all than to come in and disturb the whole sequence of thought of both the speaker and audience at a lecture of this sort. It is up to us to practice this anti-procrastination not only at time of convocations, but in our regular daily work. The evil has become very pronounced and perhaps overlooked by instructor and student. But it is exceedingly disadvantageous for student and instructor to waste time through interruptions of this nature, and they must be prevented.

The Tech is of course ready and anxious to print all important news concerning all activities at the Institute. In so doing it serves its purpose as the newspaper of Technology. The task is comprehensive and requires a broad outlook and knowledge of the happenings in every phase of the Institute life. It is impossible for one man, solely through his own initiative, to learn of the doings of the entire Institute, and it is an extremely difficult task for a comparatively small group of men without the co-operation of those immediately concerned in these activities.

In more specific words, The Tech lacks the co-operation of many of the Institute organizations. Only a few take the trouble to send in notices of the dates of coming meetings and of their plans for the immediate future. Thus The Tech is unable to furnish all the newsy advance articles called for, and the organizations become a bit peevish for want of publicity. If the secretary or manager of each organization would take the slight trouble to leave notices for us, The

Tech will be enabled to print fuller and better accounts for the organization. One of our cherished aims is to keep our paper well balanced and give each activity a just and due proportion of attention in our columns. This is possible only with such co-operation.

(Continued from Page 1.)

Mr. Merrill talked on the stability of aeroplanes and gliders and showed many interesting slides and diagrams. In the opinion of Mr. Merrill, the automatic control will never be successfully used. He thinks the best way is to construct a machine which is unstable because it responds quickly to control, and if the machine is easily thrown out of equilibrium it is just as easily brought back into equilibrium again; whereas when a machine of any great stability is thrown out of equilibrium it is a pretty hard proposition to again adjust it. Hence the surest way to gain stability is through the control. Mr. Merrill then showed a number of slides made at the recent Harvard Aero meet and elsewhere, demonstrating the different controls used in the various types of machines in use today.

He concluded the lecture by showing how by using the right form of dimensions a biplane could be built which would fly with as great speed as a monoplane.

The Aero Club have practically finished their new glider, on which they have been working several weeks. The following figures give some idea of the size and efficiency of the machine:

It is a biplane with two lifting surfaces: length, 20 feet 11 inches, and chord, 5 feet 3 inches, camber.

Length of beams, 4-21 feet 3 inches x 1 1-16 inches.

Struts, 12-4 feet 7 1-2 inches x 3-4 inch.

Wires, 16-6 feet 3 inches x 3-64 inch.

4-5 feet 2 inches x 3-64 inch.

Max drift for non-lifting parts, 2.8014.

**Lift and Drift of Planes.**  
Area, 105.49 square feet and using .0045.

	Lift.	Drift.
-3°	45.95	5.74
-1°	63.09	4.79
+1°	82.41	4.45
+3°	103.67	5.39
+5°	123.42	8.04
+7°	138.61	11.78
+9°	150.38	15.79

Parties were organized to make flights on Wednesday and Saturday afternoons, and much work is expected to be done along this line from now on.

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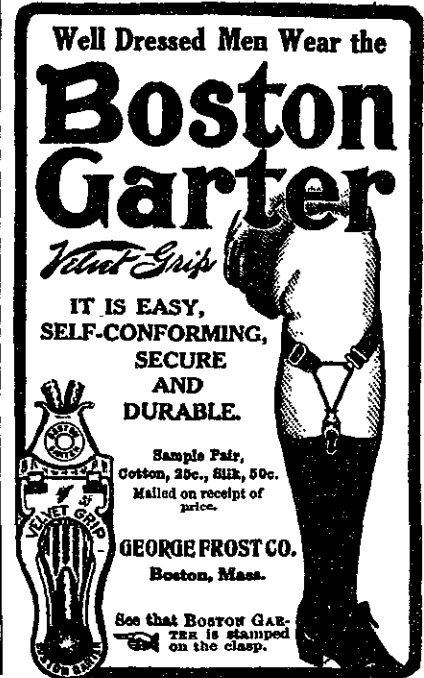
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(Continued from Page 1.)

adopting the following methods:

1.—Use low volatile coals or mixtures of bituminous coal with coke or anthracite in all hand fired furnaces. Use steam jets if necessary to prevent smoke at high rates of combustion.

2.—Use automatic stokers in all plants in which the expense can be offset by the savings due to better combustion, a reduction of labor and the use of cheaper fuel.

3.—Build central plants for heat, light and power to replace the numerous small boiler plants in the business districts of our cities.

During the discussion which followed the reading of Mr. Randall's paper a method of studying some of these problems was brought out. This consisted in plotting smoke observations by use of the Ringelmann charts (as explained in The Tech recently), with the number of the smoke as ordinates and time as abscissae. This gives a convenient method of studying the amount of volatile matter, rate of combustion, excess of air, etc.

Many Course II men were present at this meeting and took a lively interest in the paper and discussion.

(Continued from page 1)

Coach Hillman of Dartmouth does not expect to set the world afire with his team. The squad from Hanover is said to be long on endurance but short on speed. Hillman expects to take away fourth or fifth place.

Yale's stock has depreciated somewhat since last Saturday's defeat at the hands of Harvard, but it is generally conceded that they have a strong team and will give the favorites a run for their money.

Michigan has developed a very strong aggregation this year and will, in all probability, give the leaders a scare before the race is over.

U. of P., Princeton and Columbia are not considered especially strong, and the C. C. N. Y. is practically unknown. However, any one of these may prove to be a dark horse.

The Tech will post the results of the race Saturday noon, immediately after the finish, special arrangements having been made to receive the score at once.

NOTICES.

DU PONT CUP.

Time for competition extended until Tuesday, Nov. 15. Old track men will be at Field to act as judges daily, except Saturday.

W. C. SALISBURY,  
Captain Track Team.

FIRST YEAR.

Military Science—Course B.

The hour for Course B in Military Science will be Wednesday, 4-5, in Room 22, Rogers.

WALTER HUMPHREYS,  
Registrar.

CANDIDATES FOR GRADUATION.

November 7, 1910.

Notes in regard to status with reference to graduation have been sent to Fourth Year students. Any student who has not received a note should consult me if he expects to be a candidate for graduation in June, 1911.

A. L. MERRILL,  
Secretary of the Faculty.

TECH-COLUMBIA  
RIFLE MATCH

Telegraphic Rifle Match Will  
Take Place This  
Afternoon.

H. R. Wilbur, assistant in the Military Science Department, has arranged a telegraphic rifle match with the Columbia University team to be held today. Each team will shoot on its own range, officers in the U. S. army being in charge, and the scores will be exchanged at the end of the shoot. The events will be two sighting shots and ten shots for record at 200, 300 and 500-yard ranges, with six men on each team. Columbia has one of the strongest rifle teams in the college world, and the M. I. T. contingent will have to do some remarkably good shooting in order to win out.

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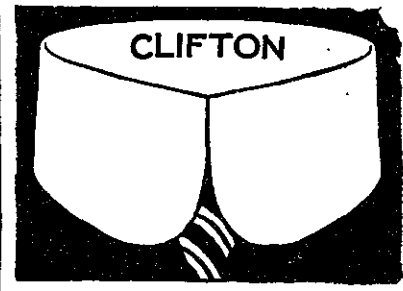
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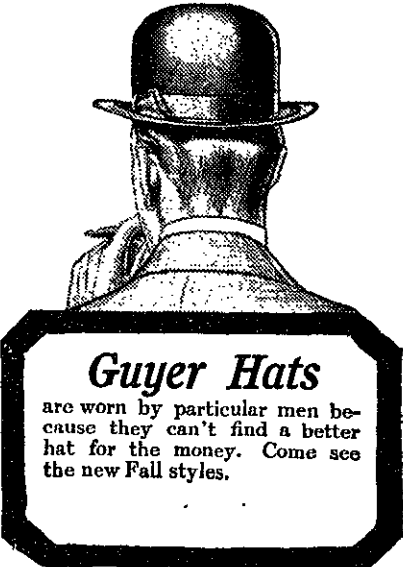
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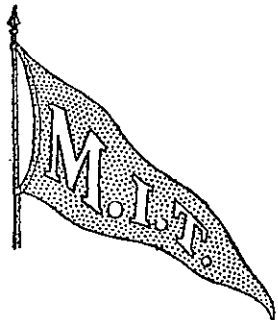
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**THIRD YEAR.**

**ARTICLES AT THE CAGE.**

On and after Wednesday, November 11, 1910, a storage fee of five cents per day will be charged on all articles left in the Cage over three days.

Per order, UNION COMMITTEE.

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Free tickets of admission to the Museum of Arts for the year 1910-1911 will be issued to students upon application at the ticket office at the entrance to the Museum.

H. S. STORY, Curator.

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY.**

November 7, 1910.

Attention is called to the following rule of the Faculty:

"All marks of D, except in Physical Laboratory, incurred during the first term must be removed not later than the end of the following March; those incurred in the second term must be removed not later than the end of the following November; except that extension of time may be granted by the Faculty in the case of subjects which from the character of the work can be pursued to better advantage in the term for which the record is given. All deficiencies in Physical Laboratory work must be removed at a date to be determined by the instructor, which date shall not be later than the end of the following November.

In case a mark of D is not removed at the date thus determined, the student shall be required to discontinue any dependent subjects which he is taking, and can obtain a clear record only by repeating the subject in which the D was given."

Petitions for extension of time must be presented before December 1.

A. L. MERRILL, Secretary of the Faculty.

(3)

M. A. H. S. Club holds its first regular meeting of the year in 26 Rogers, November 16th, at 1 P. M. All M. A. H. S. men should come (34-35)

**ASSISTANT MANAGERS OF TECH SHOW.**

Competition for assistants in Tech Show, 1911, has begun. There are three assistants to be chosen, preferably one Sophomore and two Freshmen. Manager Lenaerts will be in the Show Office, Room B, daily, from 1 to 2 o'clock, to meet all candidates.

**NOTICE.**

1911, 1912, 1913, 1914—Get your tickets for the Tech Show Kommerz Dinner at the "Cage" today. A good dinner and a good time for fifty cents. (2t)

**SECOND YEAR.**

November 8, 1910.

All students having deficiencies in Structural and Field Geology (870) are to report to Mr. Allan before November 14th.

WALTER HUMPHREYS, Registrar.

NICE ROOMS—Every convenience; price reasonable. 166 Huntington Avenue, Suite 4. Foster.

A COLLEGE DANCE will be given on November 21, at Temple Israel, Commonwealth Avenue, for Jewish college students whose homes are not in Boston. Invitations will be sent to all such who will leave their names at the office of the President's Assistant, 10 Rogers, not later than Saturday, November 12. (3, 4, 5, 6, 7) 1914.

The Gymnasium classes in Physical Training begin this week, according to the Tabular View. The attendance at the first two classes was very poor, and a large number of men have one absence against them already. There are only four cuts allowed during the year, and each man must report at his classes in order to obtain a clear record in that subject.

**DYNAMO ELECTRIC MACHINERY.**

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Problems may be obtained by applying to Room H, Lowell Building. (2) HARRISON W. SMITH.

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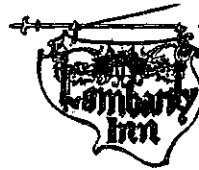
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