THE TECH

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TECH SHOW POSTER

About Twenty Men Present At The Meeting—Conditions Missed

The call for men to enter the Tech Show has been met with enthusiastic response. About twenty men, mostly from the Sophomore Class were present at the meeting held yesterday afternoon. E. L. Lut-

tex, Publicity Manager of the Show, outlined the conditions of the competi-

tion.

A formal idea of the poster should be the same as that expressed in the title and plot of the Show. It is de-

sirable that the picture have life and action. Only two solid colors, be-

sides black, may be used, and yellow and red should be avoided if possible.

For several years the poster has con-

tained one of the color, at no small change is felt to be necessary. The

size is twenty by forty inches.

Salmagundi should be the words "Tech Show" in a promi-

nent place, as well as the title "Royal Johnyn," which need not be so promi-

nent. There must also be a blank space in the lower part for the inser-

tion for the place and date of the perfor-

mance.

Entries must be submitted, practically completed, on February 11, for a preliminary examination. Entries are to be judged on their pictures during the mid-year vacation, so as to have plen-

ty of time for a good job.

NO HOCKEY TRIP

Unable To Secure Enough Games—New Manager Appointed

There will be no mid-year trip of the Hockey Team as was previously announced, owing to the fact that the man-

agement was unable to secure enough games to make up the required expense. The only games secured were with Cornell, Syracuse and the Army, and all these have been canceled. To replace the trip a sec-

ond game of some sort, if they can be arranged nearer Boston. Massachusetts Aggies and Needham Hammers are on the list, and it is expected that other names will be added. Neither of these will be played at the Arena.

The resignation of Manager Good-

ell, due to pressure of work, has been announced and Assistant Manager MacRea has been appointed in his place.

1911 CLASS DINNER

The Class of 1911 will hold its next Class Dinner in the Union, Saturday evening. The guests of honor will be Pro-,

fessor Fisk with his family, and the program for the evening will be announced shortly.

The dinner will be entirely informal and the charge will be $1.25 a plate.

B. A. A. TICKETS

Tickets in the Tech section for the B. A. A. Games on February 7 may be obtained from Major F. W. Briggs, 10 High Street, for $2.00 each. The tickets may be gotten by sending a check and return envelope by mail.

STUDENTS MEET TO ORGANIZE MAGAZINE

Weaver Outlines Plans For The New Publication At The Institute

Considerable progress toward the establish-

ment of a monthly magazine at Tech was made at the meeting held at the Student's Association Club, yesterday afternoon. A number of men interested in

working for the new paper were present, and it was announced that the Tech- 

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be played at the Arena.

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tained one of these colors; so some

or red should be avoided if possible.

already of one more star.

Besides this, the question of addi-

tional insignia for men winning the "T" in different forms of sport or during two or more different years in the same sport was discussed.

It was decided that additional insignia in the form of one of the colors above mentioned would be granted, subject to the following conditions:

1. Any student wanting a "T" in two different years in any one form of sport or in the same or different years in any two forms of sport as recognized by the Advisory Council shall be granted a star to be worn in addition to the "T" upon the sweater, jersey or other prescribed garment.

2. Should any student holding the "T" and a star qualify again for the same or similar sport, the above rules shall apply.

3. For the purpose of this classifica-

tion, the Truck and Cross-Country teams shall be regarded as separate branches of the same sport. (Continued on page 4)

MASCOT ADOPTED

Alumni Council Selects Beaver As Mascot For Institute

At the annual meeting of the Alumni Council of the Massachusetts Institute of Technology, the beaver was selected for the mascot of the school, following a lead of twenty-five of the principal colleges in the country.

The application is apparent once the facts have also been established that the Beaver is the official emblem of the Massachusetts Natural History, where it is said that "the beaver of Canada has a certain simplicity about his life, so that in the world of mechanical and engineer-

ing skill and also in habits of indus-

try, he is probably the best of the animal.

The report of the secretary shows that there are 6,665 members in Tech Alumni Association, and that the branch associations number forty two, a gain of three in the year, one of them, that of Indiana, being an-

ounced by telegram at the banquet held at the Boston Opera House last Wednesday night. The first time the annual banquet of the Alumni Association was held outside of Boston, the dinner being in New York in January, at which the "Tech-

ology Clubs Association" was formed, has also been established "Un-

dergraduates Night," at which the representatives of the student activitys tell to the alumni what their res-

pective societies are doing. This line awoke interest on the part of graduates in the doings of the students of today. The Follett Club presented their Machine Division, and there was a beginning of a larger entertainment than was possible at a Tech night up to that time.

The Alumni Council has served the best interest to the help in the con-

sideration of matters of policy for the Institute. One of these has been the pro-

posed housing of the students at the New Site; a second, the place of the Walker Memorial at the same place; and the third, the feasibility of a course in the Institute in Engi-

neering and Business Administration which is probably to be established.

M. I. T. A. A. MEETING

NEW INSIGNIA AWARDED

To Be Given To Men Qualifying For "T" More Than Once—"VISITORS" Awarded

The M. I. T. A. A. held a meeting yesterday afternoon at the Hotel Puritan. Those present were: Drs. Reser, and Royer, and others. Guesting Thomas, Peaslee. For making the four "Best Times" at the Annual Cross-Country Run at Wakefield, November 29th, 1913, M. C. Brocki 1917, A. F. Peaslee 1914, E. M. Clutter 1914, and Q. E. Best were awarded their "TEs."

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PLACE SOCIETY CONTEST

The Massachusetts Peace Society has offered a first prize of $100 and a second prize of $75 for winners of the Massachusetts Intercollegiate Or-

natorical Contest. The subject of the com-

petitions will probably include humor and jokes. An effort is being made to secure additional insignia for men winning the "T" in different forms of sport or during two or more different years in the same sport as recognized by the Advisory Council. (Continued on page 4)

TECH DEFEATED IN HARD FUGHT GAME

Tufts Victory By Score Of 4 to 3—Rough Play In Second Period

Teach was defeated by Tufts in a closely contested and rough game last evening. The contest was nip and tuck all the way, the final score being only 4 to 3. The interest of the spectators was at a high pitch during the entire period of play. For the result was not determined until the last two minutes of the game.

Both teams showed a great improve-

ment since they played last. The In-

stitute men displayed better team-

work than in any other game of the season, but the men seemed a little short of condition, due to lack of prac-

tice. Tufts, which was a strong fa-

vorable on account of its victory over the strong Massachusetts Aggie team, showed much better all-round work that Tech, but was obliged to fight hard for the win.

In the first half Fletcher scored the first goal for Tech with its second two minutes of play, but Gaudet of Tufts re-

taliated immediately by pushing the puck from the side of the rink. For a time the puck went up and down the ice, and neither side could gain the decided advantage. Finally Fletcher, aided by the good team-

work of the Tech men, succeeded in scoring again. The rest of the half was slow.

The second period was character-

ized by rough playing. Tufts, real-

izing that she was behind, made ex-

tra efforts to tie the score. Gately succeeded in doing this on a side shot. After this six or seven men were put off the ice within a short time for tripping and body-checking.

Tech was again placed in the lead by Winton, who worked his way down the ice by good dribbling. Tufts took the puck to the goal with its first five minutes of play by scoring two goals in quick succession, thereby tying the game again.

Both teams were successful, each in scoring. Tufts 4, Tech 3

Adjelson, g, 0. L. Brant, g, 0. P. Gould, c p Gately, r w, Fletcher Laurie, c, Winson Whitaker, r, MacLeod (Capt.) Kelly (Capt.), Wescoct, 1, and 1, Sawyer

WEATHER

For Boston: Snow or rain tonight and probably Wednesday; colder Wednesday, increasing northerly winds.

CALENDAR

Wednesday, January 21, 1914.

1:15 m. M. I. T. A. A., Pachar—Nor-

man's, 3 Park Street.

4:00— Rifle and Pistol Practice—First Course, Cadets Armsy, Colum-

bus Avenue.

Thursday, January 22, 1914.

Last exercises of the first term.

Friday, January 23, 1914.

Beginning of Mid-Year Examinations.
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ENGINEERING AND SCIENTIFIC NOTES
The world's coal supply represents the results of thousands of years of geographical evolution, and yet with its present rate of consumption, this supply bids fair to become exhausted within a few decades. This important fact has received considerable attention from engineers and others who are wise enough to look into the future, and several remedies for such an approaching calamity have been devised as, for example, the utilization of the millions of horse power which are daily going to waste in the courses of our inland waterways.

In another field also engineers have sought to obtain power without the use of the exhaustible coal pile, namely by utilizing the energy of the sun's rays in tropical latitudes or even with the "hot spells" which occasionally visit our New England latitudes. Now, of course, this energy is not "going to waste." Without it the earth would be a frigid, lifeless sphere. Our coal beds, wood piles, river currents, etc., all came originally, although indirectly, from the sun's energy; but for some time men have considered the problem: Why cannot this energy be used directly, why cannot the sun's rays themselves be harnessed to the steam engine? Numerous successful experiments have been carried on to manufacture steam by concentrating the sun's rays upon a suitable boiler by means of a "burning glass" or large curved mirrors, and it has been found possible, by concentrating the energy received on a large surface, to boil water even under a considerable pressure and so obtain a steady supply of steam without any cost for fuel.

But is all this practicable? Would a sun plant be commercially efficient? Some figures and calculations recently compiled by experts upon this matter show very clearly that, in tropical regions at least, one may answer these questions in the affirmative. The figures concern a sun plant which is to be erected in Cairo, Egypt, the boiler for driving a fifty horsepower low pressure engine being heated directly by the rays of the sun.

The construction of such a plant there would cost $7,000, and the expenses in running it ten hours a day for 365 days, including depreciation and interest on capital, would amount to $780 dollars per annum. Now to construct a coal-burning plant of the same capacity at Cairo would cost $5,000, but to operate it for the same time for $780 would require coal to be delivered at the furnace door at a cost of only $2.40 per ton. As the price of coal is high in the tropics and indeed in some of the more inaccessible regions it runs over $2.50 per ton, it requires extensive economic calculations to show the superior efficiency of the sun power plant. This field of engineering is still in its infancy but it is not worth serious consideration? When Robert Fulton's sunny steamboat first crept slowly up the Hudson many a day they shook their heads and declared, "It cannot be done." But now the pioneers of the industry, of they were alive, could point to any of our big liners as she rushes along propelled by her mighty turbines and reply, "I told you so." Perhaps those who now regard the sun power plant with too much skepticism will some day receive a similar reply.

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THE TECH, BOSTON, MASS., JANUARY 21, 1914.

THE TECH MONTHLY MEETING

(Continued from page 1)

Mrs. Langley, who graduated from the Institute last year, returned and was taking some graduate work. Last year, he was elected president of the association. Owing to the death of his father recently, a change in his plans was found necessary, and he is now with the Percival Lowell Observatory offices here in the city.

The election for a new president will be held next term, on Friday, February 13, 1914. It is very probable that a social will take place on the evening of that day, and also that elections to fill any other vacancies will be made. By the constitution of the association, any member of the T.C.A. may be nominated, the nominations to be signed by at least five members. These nominations must be filed with the Secretary of the T.C.A., in his office, by noon of the fourth day preceding, Tuesday, February 10.

RELAY TEAM PICKED

Last Saturday the trials for the Relay Team which is to compete with Dartmouth were held. The six men that made the team were: I. W. Bolton '14, M. C. Brock '17, K. Dean '16, C. E. Fox '14, T. H. Guething '14, C. T. Guething '16, P. F. O'Hara '17, and D. P. Thomson '17. Those not picked for this team will form a squad to give the Relay Team practice.

PRIZE WALTZ COMPETITION

The Junior Prom Committee has voted to open a competition for Prize Waltz Music. Any member of the Junior Class may compete. The winner will receive a prize of $5.00, and the Waltz will be played at the Prom.

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