

# THE TECH

VOL. XXXIII. NO. 124.

BOSTON, MASS., WEDNESDAY, JANUARY 21, 1914.

PRICE TWO CENTS

## TECH SHOW POSTER COMPETITION BEGINS

About Twenty Men Present At The Meeting—Conditions Outlined.

The call for men to enter the Tech Show Poster competition met with enthusiastic response. About twenty men, mostly from the Sophomore Class were present at the meeting held yesterday afternoon. E. L. Lucas, Publicity Manager of the Show, outlined the conditions of the competition.

The general idea of the poster should be the same as that expressed in the title and plot of the Show. It is desirable that the picture have life and action. Only two solid colors, besides black, may be used, and yellow or red should be avoided if possible. For several years the poster has contained one of these colors, so some change is felt to be necessary. The size is twenty by forty inches.

All pictures submitted must bear the words "Tech Show" in a prominent place, as well as the title "A Royal Johnny," which need not be so prominent. There must also be a blank space at the bottom, for the insertion for the place and date of the performance.

The posters must be submitted, practically completed, on February 11, for a preliminary examination. Lucas advised the men to do some work on their pictures during the mid-year vacation, so as to have plenty 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 management has been 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 cancelled. To replace the trip a series of games are being arranged nearer Boston. Massachusetts Aggies and Amherst are on this new list, and it is expected that other names will be added. Neither of these will be played at the Arena.

The resignation of Manager Goodell, 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, January 24, 1914, at 6.30 P.M. Mr. Geo. C. Kenney '11 will tell of his recent experiences while on railroad work in northern Canada. 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, at \$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 establishment of a monthly magazine at Tech was made at the meeting held yesterday in the office of THE TECH. A number of men interested in working for the new paper were present, as well as some of the prominent leaders in other activities.

Plans for organizing the proposed activity are not yet definitely formulated, but some tentative arrangements have been made, which may have to be modified in practice. E. A. Weaver, Editor-in-Chief of THE TECH, told about what had already been done to divide the work into different departments. It is now intended to have the following departments: Business, Art, Editorial, Athletic, Societies, Fiction, Special Articles, and Exchange. The last will probably include humor and jokes.

Already a large amount of material in the way of stories and edito-

(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 the lead of twenty-five of the principal colleges in the country. The application is apparent at once when one consults the American Natural History, where it said that "the beaver easily leads the mammals of the world in mechanical and engineering skill and also in habits of industry."

The report of the secretary shows that there are 6,665 members in Technology Alumni Associations, and that the branch associations number forty-two, a gain of three in the year, one of them, that of Indiana, being announced by telegram at the banquet at the Somerset a week ago. For 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 "Technology Clubs Associated" was formed. There has also been established "Undergraduates Night," at which the representatives of the student activities tell to the alumni what their respective societies are doing. This has served to awaken interest on the part of graduates in the doings of the students of today. The Potlatch Chantant in Mechanics Hall was the beginning of a larger entertainment than was possible at a Tech night at the "Pops."

The Alumni Council has served through the year to help in the consideration of matters of policy for the Institute. One of these has been the proposed housing of the students at the New Site; a second, the place of the Walker Memorial at the same place; and the third, the desirability of a course in the Institute in Engineering 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—"cTc" Awarded

The M. I. T. A. A. held a meeting yesterday afternoon at the Hotel Puritan. Those present were: Drs. Rockwell and Rowe, Messrs. Briggs, Guething, Thomas, Peaslee. For making the four "Best Times" at the Annual M. I. T. Cross-Country Run at Wakefield, on November 29th, 1913, M. C. Brock 1917, A. F. Peaslee 1914, P. M. Currier 1914, and Q. E. Best were awarded their "cTc."

The question of additional 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 or more stars should be granted, subject to the following conditions:

1. Any student winning 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, on the event of the second win, 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 initial honor, under the conditions stated above, an additional star shall be granted and further, each subsequent qualification under the above ruling shall be recognized by the addition of one more star.

3. For the purpose of this classification, the Track and Cross-Country Teams shall be regarded as independent.

(Continued on page 4)

## PEACE 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 Oratorical Contest. The subject of the orations will relate to International Peace and Arbitration. The competition will probably be held in Boston on April 15, 1914. The winner of the first prize is expected to speak in a Group Contest to be held among the Eastern colleges a few days later. The winners of the Group Contest are to go the last week in May to the Lake Mohonk Conference on International Arbitration where, after a final competition, the national prizes will be awarded.

The students of Boston College have just announced their intention to send a candidate to the state contest. The colleges formerly reported as intending to be represented are Boston University, Tufts College, and Clark University. An effort is being made to interest the colleges in the western part of the state.

Although Harvard University will not be represented in the state contest this year, a local competition is likely to be held at the university under the auspices of the Speakers' Club, for which Dr. James L. Tryon, Secretary of the Massachusetts Peace Society announces a special prize of fifty dollars.

## TECH DEFEATED IN HARD FOUGHT GAME

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

Tech 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 improvement since they played last. The Institute men displayed better teamwork than in any other game of this season, but the men seemed a little out of condition, due to lack of practice. Tufts, which was a strong favorite on account of its victory over the strong Massachusetts Aggies team, showed much better all-round work than Tech, but was obliged to fight hard for the victory.

In the first half Fletcher scored the first goal for Tech within two minutes of play, but Gaudet of Tufts retaliated immediately by pushing the puck in from the side of the rink. For a time the puck went up and down the ice, and neither side could gain any decided advantage. Finally Fletcher, aided by the good teamwork of the Tech men, succeeded in scoring again. The rest of the half was slow.

The second period was characterized by rough playing. Tufts, realizing that she was behind, made extra 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 Tech team off its feet in the last five minutes of play by scoring two goals in quick succession, thereby winning the game.

Tufts, 4	Tech, 3
Adelson, g	p, Lowengard
Le Blanc, p	p, Cochrane
Gaudet, c p	c p, Gould
Gately, r w	r w, Fletcher
Laurie, c	c, Winton
Whittaker, r	r, MacLeod (Capt.)
Kelly (Capt.), Wescott, l w	l w, Sawyer

## WEATHER

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

## CALENDAR

Wednesday, January 21, 1914.

1.15—M. I. T. A. A. Picture—Notman's, 3 Park Street.

4.00—Rifle and Pistol Practice—First Corps Cadets Armory, Columbus Avenue.

Thursday, January 22, 1914.

Last exercises of the first term.

Friday, January 23, 1914.

Beginning of Mid-Year Examinations.

# THE TECH

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al District and outside of the United  
States, must be accompanied by postage  
at the rate of one cent a copy.

WEDNESDAY, JAN. 21, 1914.

## In Charge of This Issue:

Editor—E. F. Hewins, '16  
Associates—Ralph Millis '16, H. E. Lobdell '17, E. W. Curtin '17.

With exams so close upon us we are brought face to face—a little abruptly, it seems to some of us—with the fact that another eighth of our time at Tech is drawing to a close. A time such as this is fitting for retrospection, for a looking back over the work of the last fifteen weeks with the better sense of proportion which the present lends; and it is fitting also for a looking out into the future, for an examination of the path which we are to follow for the fifteen weeks after vacation.

We hope that in making a mental reconnaissance of his relations with the Institute—none of us can help making one at times such as this—each of us will remember to apply, so far as he is able, the methods of work which the classroom and laboratory have taught him. Too many of us are unable to deal with ourselves as machines to recognize that our own lives are to be worked out very much as are problems in mechanics and physics and surveying.

Why not run a plant test on yourself during the vacation? Why not give some thought to yourself, to the kind of machine you are, to the kind of work which you can do and ought to do? Why not look as carefully for the strong spots and weak spots in your own makeup as you would for those of an engine whose purchase you were contemplating? When you are out in the professional world you will be working always for efficiency and maximum production. If you apply the same requirements to yourself—and it can be done with very nearly the accuracy of an actual plant test—you will be enabled to gain the maximum of usefulness and happiness, which can only be gained by a systematic analysis of your possibilities.

## COLLEGE NOTES

Three of Indiana's leading agricultural organizations held their annual state conventions at the farmers' short course at Purdue University last week and the enrollment passed the 2,000 mark.

The Wisconsin basketball team was exposed to scarlet fever on the return trip from Indiana last Tuesday when one of the players was declared ill with the disease last Friday. The fraternity house in which he lives has

been quarantined and the entire team may be quarantined if the Madison board of health sees fit.

The annual snow battle between the Freshmen and Sophomores of the Virginia Polytechnic Institute was fought under unusually good conditions of snow and men. The fight was participated in by a very large number of men because of the fact that there was no snow last year.

The annual dinner of the Sons of Brown of Boston will be held at the American House on January 28.

A branch of the Intercollegiate Prohibition Association at Wesleyan is being organized. The purpose of the organization is to study the liquor problem in its official and civic relations, and to be of service in its settlement. The movement is organized in 225 colleges.

The subject of Professor Kuhn's talk before the Junior Class of Wesleyan was "The Invisible Line." This he said was the unseen line which marks the boundary between what is right and wrong.

The Dramatics Club of Queen's University in Ontario is offering a prize of \$25 for the best three or four act drama before February 1, and if the play is produced on the stage a royalty of \$50 will be given.

The tuition at Yale has been raised from \$150 to \$180 in the Sheffield Scientific School and from \$155 to \$160 in the College.

The Temperance Society at the University of Chattanooga is offering prizes amounting to \$100 for the best orations written by undergraduates on some constructive phase of the liquor problem.

Water basketball has been introduced at the University of Chicago and will be adopted in Conference meets this year.

## NOTICES

If there are any members of the Technology Aero Club now in the Institute would they kindly communicate with J. M. Livermore '15, by leaving their names at the Cage.

Every wandering Greek at the Institute is requested as soon as possible to send his full name, fraternity, and college to the Cage, addressed to the Society Editor of Technique.

The examination schedule posted by the office and the one issued by THE TECH are both subject to change by bulletin.

The lecture notes for Third Year Physics Heat are now on sale at A. D. Machlachlan's.

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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 directly. The enormous amount of energy which is received on the surface of the earth in the form of heat radiations from the sun is very evident to those of us who are familiar with the intense heat 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 study the manufacture of steam by focussing 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 onto a comparatively small 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, we 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 \$7,800, and the expense of 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 \$3,800, 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 \$25 per ton, it requires no extensive economic calculations to show the superior efficiency of the sun power plant.

This field of engineering is still in its infancy but is it not worth serious consideration? When Robert Fulton's puny steamboat first crept slowly up the Hudson many skeptics shook their heads and declared, "It cannot be done." But now the pioneer's adherents, if 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.

# Velvet

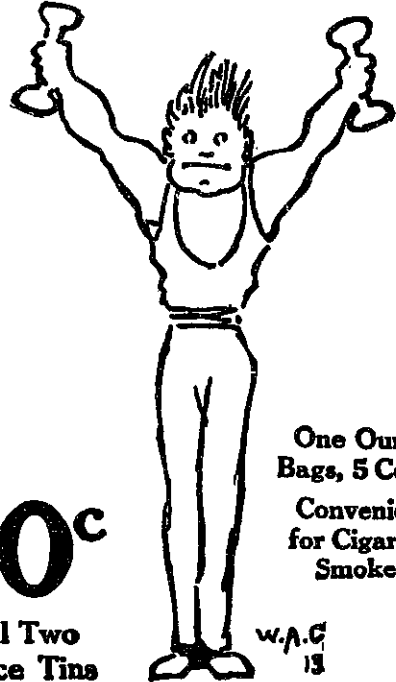
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**T. C. A. TO ELECT  
NEW PRESIDENT**

Miles E. Langley '13 Resigns—Elections To Be Held In February.

The Technology Christian Association at present finds itself without an official president, owing to the resignation of Miles E. Langley, who held that office. Mr. 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 nomination 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: J. W. Bolton '14, M. C. Brock '17, K. Dean '16, C. E. Fox '14, T. H. Guething '14, C. T. Guething '16, F. P. 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 \$6.00, and the waltz will be played at the Prom.

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**TECH MONTHLY MEETING**

(Continued from page 1)

rials has been collected, and it will be possible to publish the first number in March if the business end of the scheme works out. Several of those who started the plan, as well as such men who come out for the Business Department, will work during the mid-year vacation, securing advertisements.

It is probable that all men who compete for positions on the new paper will be required to get some advertising. By these means it is hoped that the paper may be enabled to begin publication soon. In order to avoid competition with THE TECH in circulation and advertising, the business departments of the two publications will be combined, though the news and editorial departments will be entirely separate.

The monthly is intended to interest men who like literary work, but who are prevented by lack of time from doing the work necessary on the daily. It is hoped that men who are not particularly interested in any of the activities of the Institute may find work on the new paper congenial, and that a large amount of undeveloped talent may thus be brought out.

Positions on the monthly will be filled solely on merit. In order to have the decision impartial, the Managing Board of THE TECH will make the first elections.

About a dozen of the men present at the meeting signified their desire to work for the proposed publication. Anyone else who may desire to compete is requested to send his name and address to E. A. Weaver, at the office of THE TECH.

**M. I. T. A. A. MEETING**

(Continued from page 1)

ent organizations, but the Relay Team shall be included in the former of the foregoing.

4. No student shall be regarded as eligible for qualification for additional insignia until after beginning his third academic year.

5. Present holders of the "T" who are eligible under the foregoing regulation, may qualify for additional insignia only after January 1, 1914.

6. The placement of the first and succeeding stars shall be decided at a subsequent meeting of this Council.

The report of Mr. Smythe-Martin on wrestling schedules, etc., was read and accepted.

On Hockey, Mr. Briggs was authorized to consult with the manager as to a coach, and an expenditure was authorized, in his discretion, preferably not to exceed \$50.

The report of Mr. Briggs, treasurer, for the period from July 1st to December 31st, 1913, was read and accepted and placed on file.

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