

# THE TECH

## DAILY

VOL. XXIX. NO. 44.

BOSTON, MASS., THURSDAY, NOVEMBER 18, 1909

PRICE ONE CENT

### AERO CLUB PROGRESSIVE FIRST MEETING HELD

#### Permanent Officers Elected-- Committee Reports On Hills

Some good work is to be expected from the Aero Club if the attitude of the members at the first meeting held yesterday afternoon is any indication.

The meeting was opened by temporary chairman Creeey, who was elected to this position at the organization of the club last Friday. There were about twenty-five men present yesterday, most of whom had previously signified their intention of becoming full members.

As many prospective members desired to know the provisions of the constitution as drawn up last week. Mr. Creeey commenced the meeting by a reading of this document. Among the important points in it are the division of regular members into two classes, full members and associate members. A third class is also provided for, to be elected from men outside the Institute by a three-quarters vote of the club. Full members may be dropped to associate members for non-payment of dues or failure to do the required work, and associate members may be dropped from the club for the same reasons. Both of these penalties must come as a result of a three-quarters vote of the full members. The constitution was accepted as read.

The election of officers was the next step, and Mr. Elisha Fales was nominated and unanimously elected president of the Aero Club of M. I. T. Mr. Woodward Selfridge 1913, was elected secretary-treasurer.

Mr. Fales then took the chair and spoke concerning the offices to be filled. The club, he said, needed a librarian, whose duties would be to gather and take care of such publications, clippings etc., as would be necessary or useful to the club. He also asked that members turn over to the librarian any literature in their possession which would be of interest to members in general. C. H. Strang 1913, was elected librarian.

Report from members of the temporary engineering committee on an investigation of hills for gliding were heard. H. D. Kemp reported that, of three hills he had looked over, two were at least partially suited for the desired purpose. Both of these hills were in the West Roxbury district of Boston. H. F. Lehman reported that two hills which he had been asked to look over were not suited for experimentation.

There followed some discussion as to the advisability of having shingles for members as is the custom among the other professional societies at the Institute. A vote of the club decided in favor of having shingles, and a committee was appointed by the chair to look into the matter. The members of this committee are Mr. Strang, Mr. Lehman and Mr. Selfridge.

It was decided to call this the first meeting of the club as the organization of the club which took place last Friday night was not a meeting, strictly speaking.

The election of the permanent engineering committee brought out some little discussion in which it was made clear just what the requirements and duties of men on it will be. Those men will have charge of the laying out of the work and will assign the three hours work of the full members. They will be held responsible for the execution

(Continued on page 3.)

### MECHANICAL SOCIETY DISCUSSES TURBINES

#### Low Pressure Units The Theme -- Greater Efficiency Gained

The Boston Branch of the American Society of Mechanical Engineers enjoyed a very instructive talk on low pressure turbines. The meeting was held at 6 Lowell, commencing at 8 o'clock last night.

The object of the discussion was to find a better means of converting an ordinary steam engine into a more efficient affair, thereby utilizing all the steam which would otherwise go to waste.

This state would be brought about by introducing a third element, the low pressure turbine.

Mr. Stov, President of N. Y. Interborough Rapid Transit, was the first speaker. His talk was chiefly on the success that his company has had with low pressure turbines since they had been installed. The engines are of Manhattan type generating a power of 8,000 kilowatts and making 75 revolutions per minute. By various tests they are able to run the engines to their full capacity without any loss of power.

In low pressure turbine work it is necessary to get rid of the water and oil before it enters the turbine, otherwise it causes friction and loss of heat in steam. This function is brought about by placing a separator between the engine and the turbine. The combination of the two gives an increased economy of 23 per cent.

Mr. Scott of the General Electric Company of New York went into the details of the engines, speaking on their efficiency and capacities. He spoke of the need of them in the New England Mills. Mr. Emerson spoke on the life of the turbine, and said that it was known about fifty years ago. A very interesting speaker was Mr. Robertson, who by his intermingling of jokes, kept the society in a continuous uproar. He said that by mixing the two elements together it destroys the two units, flexibility and reliability. He said in manufacturing and mills simplicity and continuance of service were more important than the economy of fuel and steam.

Professor Miller asked for a presentation of a low pressure turbine to the Institute.

There were about three hundred present at this meeting. After the speaking the meeting became an informal smoke-talk, and there were some lively discussions concerning the use of low pressure turbines in general.

### N. Y. STATE CLUB

This evening the New York State Club of the Mass. Institute of Technology will hold its first dinner of this term. This affair will take place at the Union.

All men who are residents of New York State are eligible for membership, and all are requested to be present whether they have received invitations or not. This club had a roll of over thirty members last year, and while there have been a few lost by graduation this is about made up by the New York members of the entering Class.

### CROSS-COUNTRY RACE OVER TECH COURSE

#### Cornell Looks Like A Winner But Tech And Penn Look Good

Already preparations are being made to accommodate the cross-country teams which will participate in the intercollegiate run to be held over the Tech course next Saturday. An addition has been built onto the locker room which will enlarge the latter so that no inconvenience will be felt by the runners.

The men will line up across the northern end of the field, one man from each team in a section, each section will be divided off by poles put into the ground at regular intervals.

The course is very little over six miles in length. Starting at the farthest extremity of the field it goes out of the southern gate and up the road for a distance of a little over a mile. It then makes a circuit and returns to the field, the men entering by the Pond Avenue gate. The runners then cut diagonally across the field and once more leave by the southern gate, this time going over the Larz Anderson hill and back to the field, entering by the southern gate and making one lap on the track.

This course makes an ideal cross-country course. It combines hard going with easy roads. It has a great variety of hills and levels, woods and open fields, stone walls, fences and even goes through brooks. It has the additional feature of returning on the field often enough to give the spectators something to see. As a great many people will be in town to witness the Harvard-Yale football battle a big crowd should be out to the field to see this race. Tickets can be purchased from Paul Pearson, manager of the track team or his assistants.

At the present time Cornell looks like a winner. Cross-country running is a specialty at the New York State school and they have turned out some pretty fast teams. However, they will stand a loss in Taylor who cannot run on account of a sore ankle.

The real fight will come for second place. Penn, Tech, Yale, Syracuse and Michigan are all in good trim and will fight hard for this position.

Paul of Penn is running in fine shape and will make H. G. Watkins of Tech hustle if he wants individual honors.

### BIOLOGICAL DINNER

#### Dr. Prince Of Tufts Speaks On Psychology Of Memory

Psychology of memory was the subject of Dr. Prince's talk to the Biological Society last evening. Besides the talk, the club was entertained by several of its members.

The comic part of the entertainment was original, consisting of representations of prominent professors in the Biological department. A lecture of Prof. Phelps on bacteria by Jenks 1911 was very clever. Palmer, a graduate student, represented Prof. Prescott lecturing in the "general, theoretical, industrial and practical demography and dermatology, illustrated with lantern slides of the biological baseball game." Prof. Sedgwick congratulated the club on its success, and introduced Dr. Morton Prince of Tufts, the main

(Continued on page 3.)

### FRANCIS WILL SPEAK AT SHOW DINNER

#### Lyric Writers To Meet Saturday -- Dinner Early For Celebration

Saturday evening at six o'clock will see the first gathering of Tech Show 1910 in the Union, when plans for the year will be made public and the objects and interests of the Show explained to the entering class. All who attended last year's dinner will remember the delightful talk by Professor D. C. Jackson, and Mr. James Francis needs no introduction whatever, he always has something to say and he knows the best way to say it.

On account of the celebration after the Yale-Harvard game on Saturday, it has been decided to start the dinner a little earlier than usual so that every one can get down town by about nine o'clock. This will afford all who are planning to go down together an opportunity to meet one another at an exceptionally enjoyable dinner, as all old Show men know.

This year it has been decided to have some of the old Show men speak rather than members of the faculty as has been the custom in the past, as it is felt that this dinner is essentially for the new men, and that old Show members can give them a better idea of the Show than those who do not take an active part.

A good dinner has been arranged for, with beer. "The Soul of Good Cheer" for all those who want it. Tickets may be procured at the Cage or from any of the competitors in the Business Department.

Mr. Francis will arrive in Boston on Saturday morning, and all who are interested in writing lyrics or music should see him at 12.30 Saturday in the Show Office, Room B, the Union.

### BASKET-BALL OUTLOOK

#### Practice Begins Next Monday-- Good Season In View

Starting Monday, Nov. 22, basketball practice will be held in the gym every Monday, Wednesday and Friday. There are fine prospects for a good team this year. T. B. Parker 1910, is captain of the team, and W. D. Everett 1910, is manager. Of last year's men, several are back--Capt. Parker 1910, center; Hargraves 1910, forward; Lord 1910, forward; Bennis 1912, guard; and Kenrick 1912, guard. This is certainly a splendid nucleus for the team and counting on new men to come out, the prospect is very promising.

Manager Everett has not yet completed his schedule, but it is well under way and will soon be announced. Last year's team played sixteen games, winning ten of them, defeating Dartmouth, Tufts, Amherst, Harvard, Brown and other colleges.

### CALENDAR.

Thursday, November 18.

1:00 P. M.--E. H. S. Club, in Union.  
4:15 P. M.--Banjo Club in 33 R.  
5:00 P. M.--Technique 1910 Board Meeting.

Friday, November 19.

8:00 P. M.--Entertainment at Union.

Saturday, Nov. 20.

10:00 A. M.--Cross-Country Race.  
6:00 P. M.--Show Kommers.