

THE TECH

VOL. XXX. NO. 5

BOSTON, MASS., MONDAY, OCTOBER 10, 1910

PRICE TWO CENTS

AERO CLUB HOLDS SUCCESSFUL DINNER

H. F. Lehman, President; F. W. Caldwell, Secretary-Treasurer for Coming Year

Mr. Lehmann was the first speaker at the first dinner of the Aero Club this year, held Saturday, in the Union. He described the machines and flights at Mineola, L. I., the principal flying ground in the country. There are several Curtiss machines, an Antoinette and numerous machines of less celebrated make, all kept regularly at the Mineola flying grounds. Mr. Lehmann said he talked to several of the aviators at Mineola, but he thought that the members of the M. I. T. Aero Club had a better grasp of the principles of aviation than most of the amateurs at Mineola.

The next speaker was Mr. Custer. He described his ballooning experiences. Of particular interest was his description of the lower air currents encountered below 500 feet altitude. Passing over a hill or a forest an upward air current is always encountered and the balloon is usually lifted high above the earth at such points. Mr. Custer also described the sudden whirlwinds sometimes encountered on a perfectly calm day. These are often of great violence and are a great danger to the aeroplanist because they come entirely without warning.

E. N. Fales 1911, then described to the new men the work done by the club last year. The club started out to build a glider, which was not finally completed until after examinations last spring. Meanwhile, however, several hundred flights were made with Fales' balance glider. The longest of these flights was about one-eighth of a mile in length. At the end of the term this glider was presented to the club by Fales, and it has now been sent to Lowell at the request of the Alumni there. E. N. Fales 1911, G. H. Abel 1912, and B. C. Huber 1911, stayed over some time working on the aeroplane glider. This machine has a control similar to the Curtiss machine and was mounted on wooden wheels. Each of the men who stayed over made towed flights of over a quarter of a mile.

Mr. Merrill described his flights with Grahame-White in a very interesting manner. He then suggested a new system of lateral control. The Wright machine and nearly all other aeroplanes keep the machine horizontal by increasing the angle of incidence on the low side and decreasing it on the high side. This would cause the machine to swerve around toward the low side if the vertical or steering rudder did not prevent this. Mr. Merrill suggests the use of swing tips which can only be made to fly at a negative angle on the high side, thus depressing that side and slowing it up, causing the low side to raise on account of its relative increase in speed. Mr. Merrill's system was very favorably discussed and will probably be tried on one of the club's gliders. Mr. Merrill also described a launching device which he wished to see built, and told of his efforts to promote indoor gliding. Mr. Merrill also told of some of the difficulties which beset the enthusiast who undertakes to build a power machine.

After the dinner a regular meeting was called and the following men were made active members of the

CHAIRMAN KRUEGER URGES FRESHMEN TO REPORT

Outlook for Freshman Victory at Field Day Not Very Bright

That the interest of the Freshman class in the coming Field Day is sadly lacking is evidenced by the poor showing at the daily practice of the three teams at the field and gym. For two years now the Freshmen have been victorious in the annual under-class struggle, but present indications show a lack of enthusiasm which, unless remedied, will doubtless prove disastrous to the class of 1914.

An earnest appeal to the new men is made by Temporary Chairman Krueger in a letter to "The Tech," which is published below. In this letter the actual conditions prevailing are set forth, and they certainly show that the Freshmen must show signs of life or else lose Field Day.

The letter follows:
To the Editor of "The Tech."

In four weeks the annual Freshmen-Sophomore Field Day meet takes place. This is the most important class event of the year. Football, tug-of-war and relay race are the three events.

Whether 1914 wins or loses this biggest event of the year depends altogether on how the men get out to the field for practice. The coaches are doing their best with the few who have come out, but it is absolutely necessary that more fellows try for events. Five times the present number is needed.

The time for training is just four weeks, a short period indeed, so no one can wait until tomorrow; start today and work with might and main until November 4th.

There are dozens of 1914 men who are splendid material for tug-of-war, football and the relay, who have hesitated in coming out. Every man is needed. You may be just the man for a certain place and not know it.

Membership on the football team entitles a man to the class numerals, as does also a membership on either of the other teams, providing they win their events. Besides being a great honor, participating in the Field Day events is the best opening for an athletic career at the Institute.

Let's have a good big turnout for practice during the four weeks, and win Field Day for 1914.

The coaches will meet men any evening at 4 o'clock, in front of Walker Building. After that time candidates for the tug-of-war should go to the gymnasium, and football and relay candidates to the Field.

THEO. KRUEGER,
Temporary Chairman.

club: E. H. Blade 1911, W. C. Broga 1914, E. B. Cotton 1912, W. G. Thomas 1914, G. W. Forrester 1912, and J. E. Rush 1911. P. J. Franklin 1914, and L. L. Custer 1914, joined as associate members, but signified their intention of becoming active later on. The following officers were elected: President, H. F. Lehmann 1912; Secretary-Treasurer, F. W. Caldwell 1912; Librarian, W. J. Murray 1912; Engineering Committee, Lehmann, Caldwell, Fales, Abel and Forrester.

Work with the aeroplane glider will be resumed as soon as a suitable shed can be obtained.

INVASION OF CHOLERA IN AMERICA FEARED

Prof. Sedgwick to Aid Government in Study of Important Question

When the Advisory Public Health Board, recently formed by the United States Government, convenes in Washington, D. C., today, Professor William T. Sedgwick of the Institute's Biological Department will be among the members to report. The special session of the board is called for the purpose of considering the possibilities of the invasion of cholera from the infected sections of Europe.

The board, which is an advisor to the public health service, is composed of Professor Sedgwick, Dr. Herman Flexner of New York, director of the Rockefeller Institute for Medical Research; Victor C. Vaughn of Ann Arbor, Mich., president of the Michigan State Board of Health; Professor Frank Westbrook of Minneapolis, Minn., and Professor William Henry Welch of Baltimore, pathologist at the Johns Hopkins University Hospital.

This question of the invasion of cholera from Europe is a serious one and is being gravely regarded by the public health and marine hospital service. A striking evidence of the alarm with which the service is viewed by the authorities is the fact that the service has decided to double its officers at every port from which steamships sail, or at which immigrants gather in Italy, Germany or Russia.

The increasing death rate in Russia and the spread of the scourge into Italy and Germany has set the public health service on double guard. The whole situation is to be laid before the Advisory Board, and the public health service expects to have the advice and co-operation of the foremost scientists in the country.

CROSS COUNTRY

In preparation for the annual race against Harvard, Coach Kanaly has been working hard to get the cross-country squad in form. A thorough course of daily training was mailed to every one who had shown any interest in long distance running early in August. The men were urged to follow it in the hope that they would report at the Field this fall ready for actual practice.

On Saturday, October 1, the first run at Hyde Park brought out only twenty-eight men, in spite of the ideal weather. On the first run last fall—also held at Hyde Park—thirty-eight men reported. The hares were R. D. Sampson, 1913, V. V. Ballard, 1912, and M. Font, 1912. The trail was unusually hard to follow on account of the high wind, which scattered the scent. R. D. Bonney, 1913, and K. Cartwright, 1912, captured the bags. Four Freshmen appeared but none of them finished within the first ten. W. S. Davis, 1911, led at the finish, followed by W. R. Byland, 1913, and L. O. Mills, 1911. Frank Kanaly ran with the squad over the entire course.

On Tuesday a run was held over

Continued on page 3

"PANAMA CANAL" MR. ROURKE'S SUBJECT

Well Known Boston Engineer Speaks at First Dinner of Civil Engineers

That the construction of the Panama Canal was being carried on in a very thorough, economical and sanitary manner was the main feature of the talk given by Mr. Rourke before the Civil Engineering Society at their opening dinner last Thursday evening.

Mr. Rourke, who has recently been appointed superintendent of the street department of Boston, was for six years engineer on the Canal, having charge of the central division, which includes the great Culebra cut which has presented so many engineering difficulties. Mr. Rourke laid great stress upon the good organization which the American engineers had made of the work; contrasting it with that work done by the French. To a large extent the same equipment was used by each, some of the old French dredges and engines being still in use, but the work is now being carried on much more cheaply as well as more rapidly, and under good sanitary conditions. This last feature was one of the hardest to cope with, yellow fever being so common that "men died like flies" under the old regime. Over twenty millions were spent in sanitation, and now the death rate does not exceed that of Boston.

One of the most interesting problems in connection with the Canal was the much discussed question of sea level vs. lock canal. Mr. Rourke gave his opinion that the latter was the only design which could have been adopted without the expenditure of twice or three times the amount of money which it is costing at present. The principal reason for this is the danger of floods in the Gatun River, which has been known to rise forty feet in one night. By the construction of the Gatun dam a large lake is formed which will take care of the heaviest flood of the river, and which also serves as a portion of the canal, thus eliminating a large amount of excavation. Thus, as Mr. Rourke said, "we make the Gatun River our servant."

The greatest amount of dry excavation occurs at the Culebra cut, which is over four hundred feet deep at the highest point. The material here is an argillaceous sandstone, with dikes and pockets of hard trap rock. The process of excavation consists of breaking this up with dynamite and then loading it onto trains by means of a large number of steam shovels. By this method the rock is taken out at a cost of about forty-nine cents per cubic yard, which is a remarkably low figure, the average price on American railways being \$1.25 per cubic yard.

A meeting of the combined musical club was held yesterday afternoon at four-thirty. A new plan in regard to the position of general manager was drawn up. Last year the manager had more business than he could conveniently attend to, and on that account this year two managers will work together in the position. S. W. Selfridge, 1913, and H. A. Franzheim, 1913, of the Mandolin Club, were elected the managers.

THE TECH

Published daily, except Sunday, during the college year by students at the Massachusetts Institute of Technology.

Entered as second-class matter, Sept. 29, 1910, at the post office at Boston, Mass., under the Act of Congress of March 3, 1879.

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All communications should be addressed to the proper departments.

Subscriptions \$2.00 per year in advance. Single copies 2 cents.

Subscriptions within the Boston Postal District and outside of the United States must be accompanied by postage at the rate of one cent a copy.

Printed by Croke Printing Co.

THE ARENA.

New shell for the Crew! There are now two shells with places for eighteen men, and on the average fifteen report for practice. Come out some afternoon at four and try pulling an oar in an eight-oared shell. Perhaps you'll like it. Everybody gets a chance.

1914 is certainly starting off wrong if one can judge by the number of Freshmen who report for tug-of-war. About fourteen show up when they feel inclined to, but where the other eleven required to make up the team which will defend 1914 against the upper class on November 4 is a question that Coach Duyser does not attempt to answer. Do the men realize what it means to lose on Field Day? A squad of between thirty and forty men should be out with the material available in the class, and with this number to pick from a good team should result. At the Field, relay practice brings out about ten regularly, including some very promising candidates. While this showing is better it is hardly satisfactory. Wake up, 1914. A victory on Field Day requires previous practice—hard and regular. Don't let 1913 win twice without a struggle.

TEN DOLLARS.

To the man who secures the largest number of subscriptions to The Tech before Saturday, October 15, at 4 P. M., The Tech will give a cash prize of TEN DOLLARS. Besides, there is a commission on each individual subscription. Subscription books and further details can be obtained from the Circulation Manager in the upper Tech Office, The Union, from 8.30 to 9.00 any morning, or from 1.30 to 2.00. Get after them NOW.

SEASON TICKETS

Added Inducements for the Coming Season of Athletics

The added inducement of a reserved seat in the grand stand on Field Day has proved a strong factor in increasing the sales of season tickets for athletics this year. This privilege alone costs one dollar, and the student has been quick to utilize the fact that admission to all other events during the year in this way amounts to only two dollars.

The season tickets cost three dollars as in former years, although last year they entitled the holder to admission only, and not to a grand seat on Field Day. Except for this one extra feature the tickets are the same as last year, admitting the bearer to all Inter-Class meets; to all home track meets except the N. E. I. A. A. meet; to all basketball games at the Tech Gym; and to all other athletic contests at Tech Gym under the direct auspices of the athletic association, including gym meets, indoor track meets, etc.

The system of selling a season ticket was instituted last year in a hope of placing athletics on a firm financial basis and to save the student from the constant calls for subscriptions made by the managers of the different teams. This hope was in a great measure realized and the attendance at athletic contests was increased slightly while the sale of tickets was not so essential, since each branch of athletes receives its share from the sale of the season tickets.

Those men who have not yet obtained one of these tickets can obtain them from the manager of the different teams—hockey, basketball or track—for three dollars.

ASSISTANT TRACK MANAGER.

Competition for the position of Second Assistant Track Manager opens today. Those interested should communicate with Manager N. S. Benson 1912, or Assistant Manager M. L. Waterman 1913, as soon as possible. The duties consist of helping the manager in arranging meets and dates with managers of other college track teams, figuring costs of trips and allied work, together with assisting the manager at the Field. The man who makes the best showing in the competition will be confirmed in his position by the Athletic Association in January. This office is the first step leading to the managership of the Institute Track Team. The manager goes with the track team on all its trips and is awarded a T at the end of the season.

ANNOUNCEMENT.

The break in the publication of The Tech was caused by a shift of printers from downtown to the Back Bay. This rearrangement will make it possible for us to have the paper out at eighty-three sharp, as soon as things get into working shape. You can help us greatly in this undertaking by paying your subscription in advance by getting a subscription book now.

For two dollars you will get all The Techs for the year, including whatever special issues may be issued. This will mean a saving of one dollar and thirty-six cents over the two cent a day idea, and moreover, you will not be bothered with a pocket full of pennies. Any ticket is good for any issue, so that you can put a strip in each of your coat pockets so that you will always have one with you. They are light and convenient. Help us and yourself in consequence.

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COSMOPOLITAN CLUB

With flags and representatives from nations scattered all over the world, the Cosmopolitan Club opened its second year last Saturday evening. The Union was filled with groups of men exchanging ideas of all sorts expressed usually in English, but frequently interspersed with another tongue that was easier for the speaker and at least very interesting to the listeners.

President L. M. Sandstein, who comes from New Zealand, opened the meeting with a short account of the purposes of the club. He then introduced Dr. Maclaurin, who here made the first talk of the year.

Dr. Maclaurin emphasized the importance of social life. It is necessary to be able to know your fellow workers and to understand human nature in order to accomplish more than the mere machine work of a man only filled with scientific facts. He thought that in this club would be found the greatest opportunity to acquire this appreciation of human nature, particularly as it was here possible to get in touch with the real scientific spirit that pervades all countries, even with the differences of local customs.

Dean Burton showed how he, for one, had appreciated the work of the club to date, and gave in detail the story of the Chinese night held last year. He hoped that it might be repeated in the same spirit by these as well as other foreign representatives.

Professor Langley then expressed the interest that the department of Modern Languages would take in the welfare of the club and hoped that the department could be of service to the club.

Then followed the most unique events of the evening. F. T. Yeh first gave a solo on the oriental banjo, the San Hiang (three strings). He then accompanied F. C. Seetoo in a duet. The former played on the Yueh Ching (mon harp), and the latter on a Yang Ching (foreign harp). The final piece was given by T. C. Hsi on a Tieh (flute). This music is characterized by a much shorter beat, which makes the notes fairly fly after each other. Its other most striking element is the end in the middle of the scale instead of at the end of the

scale, as is our custom. It was remarked by one of the representatives from the Far East that just as it was difficult for Americans to see the melody in the oriental music, so it was difficult for them to see the value of the Western airs. In fact they had seemed to be quite a jumble of discordancy until repetition had accustomed the Easterners to their sense.

Professor H. W. Smith then gave his beautiful series of lantern slides taken by him in the South Sea Islands. Many of them had been seen last year, but they could never lose their interest, even without the new ones he had inserted.

CROSS COUNTRY

Continued from page 1

the Harvard course. Seventeen men covered the distance, starting from Highland Station, West Roxbury.

Saturday, thirty men visited Wellesley. Starting from the Y. M. C. A., R. M. Ferry 1912, and E. L. Macdonald 1913, laid an exceptionally good trail of about seven miles, circling Lake Waban. The scent was well distributed and the few "blinds" were just puzzling enough to keep the two squads well bunched. W. S. Davis 1911, and H. G. Watkins 1912, led the first squad at the finish, and E. W. Dewitt 1911, was the first of the slow squad to report. The features of these runs were the groups of long distance runners and pedestrians from other colleges—most Wellesley—on the roads, at sight of whom even the trailers hit up their lagging steps and dashed by in true professional form—as far as the next turn.

The squad will run from the Gym tonight, and another practice run over the Harvard course will be held tomorrow. An effort is being made to have the Harvard race come a week earlier this year instead of on Field Day, as usual, but it has not been settled as yet.

The course is 4-1/2 miles long and leads from Highland Station, West Roxbury, to Tech Field. Of the last six runs held over this course, Tech has won four. It is understood that Harvard has an exceptionally good team this year, but all of Technology's team are back except Jacobs, and if the men will only come out to practice regularly, another victory may be looked for.

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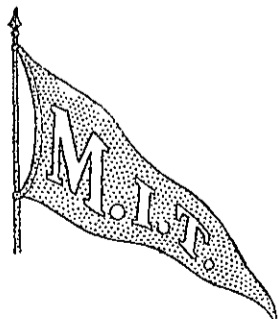
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FACULTY NOTICES.

Revised List of Hours for Sections in Political Economy.

Course VI, 1 and 2, Section Hour, Mon. 11.00; Room 42 R.; Instructor, Prof. Doten.

Course I, Section Hour, Tues. 9; Room 26 L.; Instructor, Prof. Doten.

Course II, Section Hour, Wed. 11; Room 26 L.; Instructor, Prof. Dewey.

Courses VI, 3, VIII and XIV, Section Hour, Wed. 12; Room 42 R.; Instructor, Prof. Dewey.

Courses III and IV, Section Hour, Thurs. 9; Room 26 L.; Instructor, Prof. Doten.

Course II, 2, Section Hour, Thurs. 10; Room 26 L.; Instructor, Prof. Doten.

Courses V, VII, X, XII, XIII, Section Hour, Fri. 9; Room 42 R.; Instructor, Prof. Doten.

Courses I 2 and XI, Section Hour, Fri. 10; Room 42 R.; Instructor, Prof. Doten.

D. R. DEWEY.

THIRD YEAR—Men wishing to take Advanced Composition are requested to send their names and their free hours to Professor Bates as soon as possible.

Physical Laboratory Reports.

Students during their last year's Physical Laboratory Reports and note books may obtain them in Room 16, Walker, by calling any afternoon between 1 and 4 P. M. Note books and reports which are not claimed on or before October 15th will be disposed of.

H. M. GOODWIN.

Precision of Measurements.

The special course in Precision of Measurements offered for college students will be given on Tuesdays and Fridays at 4 P. M., in Room 23, Walker Building.

H. M. GOODWIN.

British Empire.

All new students from any part of the British Empire are requested to leave their names at the Cage for THE CHAIRMAN, 11 British Empire Association.

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1914.

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FOUND.

A gold ring. Owner can have same by paying charges and applying at the Bursar's Office.

TENNIS

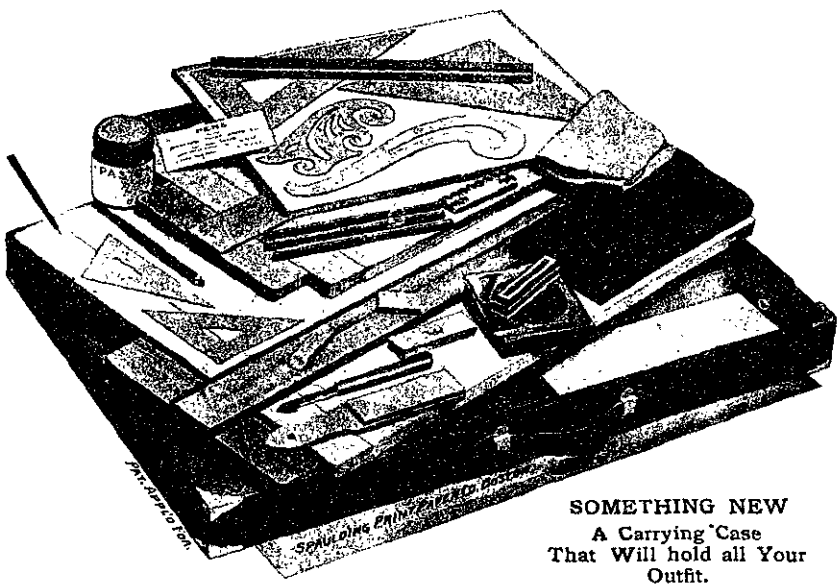
Saturday the tennis team went to Hanover for the first match of the season. Dartmouth won in everything. T. B. Parker 1911, and F. W. Covill 1911, were defeated in doubles, as were also R. Harkness 1912, and C. M. Woodward 1912. Each man then played three single sets, all of which went to the Green.

M. E. DEPT. NOTES.

During the summer the shaft of the McIntosh & Seymour tandem compound engine was replaced by a forged shaft made by the Boston Forge Company, as the old shaft had become sprung, due to the excessive load carried on the engine.

Four new jacks of larger capacity have replaced those formerly used on the 100,000 lb. beam testing machine.

A printing apparatus for making blue prints by electric light has been installed in Room 30 "B," and the carpenters are now putting a partition up to separate this from the drawing room proper. Washing tanks and a drying frame have been put in, so that the equipment is now very complete.



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