

THE TECH

VOL. XXXV. NO. 64

BOSTON, MASS., MONDAY, FEBRUARY 7, 1916

PRICE THREE CENTS

MUSICAL CLUBS HAVE A SUCCESSFUL TRIP

Many Places Visited—Technology Men Welcomed Everywhere—Concerts Good.

The midyear trip of the musical clubs was a great success socially, if not financially. The men returned feeling that they had had a very interesting and worth-while experience.

The party left for New York by the Fall River Line on Sunday, January 30; about two-thirds of the men were there, the others having gone on ahead.

At 4.30 p. m. they left for Montclair. The first concert was the most successful. The audience was large and select, and, what is almost as important, the program was performed with only a few slips. The dance that followed and the hospitality of Technology's Montclair friends made this evening the most memorable of the trip.

An early start was made the next morning, Tuesday, for Philadelphia. The concert, which was given that evening at the New Century Club under the auspices of the Technology Club of Philadelphia, went off very well. The blame for the smallness of the audience may be laid to the weather, which was still bad.

The next day they proceeded to Schenectady by way of Albany, where they had to wait a long while on account of bad connections. The concert was given at the Edison Club. The attendance was fair, and the dance afterward was very agreeable.

Next after Schenectady was Pittsfield. Here the men were entertained at the Country Club and other places. The concert that evening was at the Masonic Temple. Favors were passed out, and after the concert a band of favor horns was

(Continued on Page Three)

BOXING TEAM FORMED

Meets Will Be Arranged With Other Colleges.

This term a boxing team is to be organized by Coach Boutillier, and if enough material comes out, matches are to be held with other college teams. This is not the first time a boxing team has been developed here, for two years ago Mr. Boutillier conceived the idea of having such a team and arranging an intercollegiate tournament. The University of Pennsylvania had at that time a team which was challenged by the Technology boxers but the project fell through. This was the first college boxing team in this part of the country although Harvard is now claiming the distinction of being the pioneer in this field.

There have been men out for boxing during the first term, but not enough to pick a team. The practice is open to anyone who can pay the fee for instruction. The subject taught is scientific boxing and not prizefighting. The first work will be done on Wednesday, Feb. 9, when the coach will be at the Gym from 2.00 until 6.00 o'clock. Arrangements will be made at that time for future work, the coach being scheduled to come twice a week.

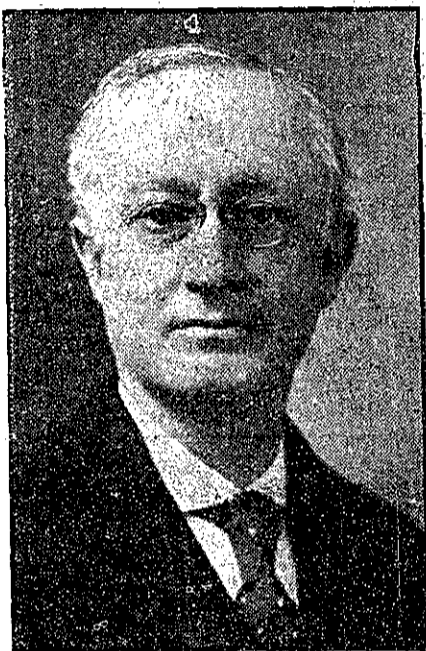
The coach has a long and successful record in the amateur boxing field, coming first into prominence in 1901. He started to coach the boxing candidates at M. I. T. two years

PROFESSOR C. F. ALLEN TO RETIRE THIS YEAR

Member Of Faculty For 30 Years—Prominent As Engineer And As Lawyer.

President Maclaurin announces the retirement of Professor C. Frank Allen under the benefits of the Carnegie Foundation, the same to take effect at the close of the present academic year.

Professor Allen is from Roxbury and a graduate of the Roxbury Latin School, taking his S. B. at the In-



C. FRANK ALLEN
Professor of Railroad Engineering

stitute in 1872 and being connected with the Institute for the past thirty years as one of the Faculty.

Following graduation Mr. Allen had a varied experience. He was engaged in work connected with the water systems or sewers of various municipalities; Newton, Providence, and Boston among them. In 1878 he went West and from that year till 1885 was assistant engineer of the Atchison, Topeka & Santa Fe Railroad. (Continued on Page Three)

DR. SHIMER TO TALK

Will Speak Before Boston Scientific Society Tomorrow.

At a meeting of the Boston Scientific Society, to be held tomorrow evening at 7.45 p. m., the speaker will be Dr. Hervey W. Shimer, associate Professor of Paleontology. Dr. Shimer will take as his subject one of the comparatively new chapters of the ever-interesting story of evolution, and will tell how, in their methods of helping one another, the animals have contributed to improvement in various forms of life. The title of Professor Shimer's lecture will be "How Helpfulness to Others Has Affected Evolution of Life Forms," and his talk will be accompanied by illustrations. All who are interested will be welcome, and Technology students are particularly invited. The Society will hold its meeting in the Chauncy Hall Building, 585 Boylston St.

CLASS DAY COMMITTEE

TECHNIQUE SIGN-UPS TO BEGIN TOMORROW

Board Aims For One Thousand Sales By March 1—Book Well Under Way.

Tomorrow morning Technique 1917 will start a systematic sign-up campaign, with the objective of over a thousand sales to the undergraduates before March 1. The Board plans this year to keep the Institute acquainted with the progress of sign-ups, and for that purpose will indicate the total number three times a week by means of "barometers" in The Tech and on the Technique bulletin in Rogers. Although no sales are supposed to be made until tomorrow, it is stated that several members of the Board have surreptitiously begun work already, in their eagerness to get a start on their unsuspecting confreres.

The price of the book is to be the same as in the past few years, two dollars and seventy-five cents per volume, of which seventy-five cents are paid as a deposit when the sign-up is made. In order to facilitate the handling of the returns, no sign-up books will be issued to men outside the Board.

Work on the annual itself is progressing rapidly. The faculty section, which has been thoroughly revised, is nearing completion, and the Athletics section is finished to date, with the exception of a few headings and the picture of the Cross Country Team. The Portfolio has, as expected, proven the most difficult section as far as collection of material is concerned, on account of the extreme modesty of the Seniors. The formal photographs have all been taken by Bachrach, and a large majority of the statistics cards have been handed in, but the fourth year men seem very reluctant to loan characteristic snapshots of themselves. Those men who have not handed in informal negatives by March 1 will be dropped from the Portfolio, as the Board feels that it cannot jeopardize the prompt appearance of the book nor the uniformity of such a feature section even to accommodate (Continued on Page Four)

RIFLE TEAM WINS

Results Of First Intercollegiate Match Announced.

Technology's Indoor Rifle Team started its intercollegiate matches about the middle of January, and since then has been practising regularly, and taking part in weekly matches. The targets are sent to the National Rifle Association by L. F. Hamilton, the local N. R. A. judge, and the official scores are announced from Washington. The scores of the first match have already been announced.

M. I. T. won the match against Saint Thomas College by default. Technology's score was:

	First	Second	Total
Stahl '17	90	97	187
Tuttle '17	88	95	183
Parker '18	86	93	179
A. S. Johnson '18	83	89	172
Bond '19	81	88	169

Team Score 890
Since this match the team's score has increased considerably. All scores will be published in The Tech as soon as they are officially announced.

There will be a meeting of all men on the squad and candidates this afternoon. The place of meeting will be

WRESTLERS LOST TWO MEETS ON TRIP SOUTH

Penn State and Lehigh Win—Technology Joins In Wrestling League.

The Technology wrestling team did not have a very successful trip during the vacation, losing their two meets. They were defeated by Penn State and Lehigh, both meets being lost by the score of 28 to 2. The Institute opponents won six bouts in each meet, the seventh being a tie.

PENN STATE MEET

In this meet, although the score was large, Technology lost six of the bouts by very narrow margins, and tied one. In several cases the bouts went to a draw, and instead of standing as a tie, the matmen were asked to wrestle extra periods.

LEHIGH WINS

In the Lehigh meet, the score was 28 to 2, and here again the bouts were all closely contested, the M. I. T. men losing by the narrowest margin.

WRESTLING LEAGUE

Technology has joined with Harvard, Yale, Brown and Springfield in the formation of a New England Intercollegiate Wrestling League.

The summary of the wrestling meets during vacation:

Technology vs. Penn State.

115 lb. class—Long of Penn State won from Loo of Tech on decision. Time 9 min.

125 lb. class—Brown of Penn State won from Rounds of Tech on decision. Time, 9 min. and one extra 6 minute period.

135 lb. class—Hoffman of Tech lost to Long of Penn State on decision. Time 9 min.

145 lb. class—Pickets of Penn State won from Morse of Tech on decision. Time, 9 min. and extra 6 min. period.

158 lb. class—Yerger of Penn State threw Wirt of Technology in 4 min., 38 sec.

175 lb. class—Todd of Tech and

(Continued on Page Four)

C. E. SOCIETY

Ralph Adams Cram Will Speak On Trades Guilds.

The Civil Engineering Society will hold the first meeting of the second term on Friday evening, February 11, at the Union. The society has secured as the speaker of the evening, Professor Ralph Adams Cram, the head of the Architectural Department and a member of the firm of Cram and Ferguson of Boston.

Professor Cram is a recognized authority in this country on ecclesiastical architecture especially that of the Gothic type. He will address the society on "An Architectural and Engineering Experiment." The "experiment" takes up the building of a church near Philadelphia which is being erected under the supervision of the firm of Cram & Ferguson. The work on the building itself is being done in the manner of the old English Trades Guilds of the middle ages.

The talk will be illustrated by a number of lantern slides which Professor Cram has prepared.

The Society will provide free smokes and refreshments for all present. Members of the Architectural Society have been invited to attend the meeting.

TECH

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FEBRUARY 7, 1916

s to state that pub- ended from January ary 7th due to the ations. Due notice s, through an over- in our last issue.

do not receive their will oblige us by culation Manager at ne, in other words, es are regular until of an irregularity.

CLASS DAY COMMITTEE

whether the mem- or Class realize fully responsibility that rust upon them by ive Committee when for Class Day elec- ted. The substance will be found on the panos which have already been mailed to the whole class. In addition, it will be remembered that the st Marshal is to be Class Orator; e chairman of the Class Day Com- tee will be elected by the Com- tee. It was apparently assumed at the honor of receiving the high- number of votes would prove so piring as to carry with it the gift oratory, that which ever of the zen or so most widely known men the class happened to get the best number of votes would some- undergo Patrick Henry's de- tful and epoch making exper- ie. However that may be, it might least be a wise precaution to see t a few of the men who have an X rked by their names know what to with their feet when on the ros- m and that they are acquainted h the elements of the English uage.

But the responsibility of the voter by no means ended when he has efully marked off a few men, any whom he considers might be safe- entrusted with the office of first rshal. The rest of his votes should given with equal care to the men the class whose judgment can be ied upon and whose ability has en proven by their previous rec- ls.

The duties of the Class Day Com- tee require about as great a di- rsity of talent and taste as it is ssible to have distributed among enty-five men. The officers of the ommittee and the sub-committees ong which the detailed work is ided are as follows: Chairman, e-Chairman, Secretary, Treasurer, minating Committee, Class Day ercises Committee, Dinner Com- tee, Printing Committee, Dance mmittee, Picnic Committee, Pops ght Committee, Baccalaureate Ser- n Committee, and Budget Com- ittee.

The Chairman is chosen by the mmittee. He is the executive head the Committee and as such is ul- tately responsible for the success failure of Senior Week.

The first Marshal is Vice-Chair- n ex-officio. In addition to being ss Orator, he is president of the ss Day Exercises Committee and

TRACK TEAM ENTERED TWO INDOOR MEETS

O'Hara And Sullivan Capture First Places — Relays Lose Both Races.

Technology athletes did good work in two big indoor meets during the vacation, several individuals meeting with great success, although neither the varsity nor the freshman relay quartets were able to win in the two meets. The best performances were made by Frank O'Hara and W. A. Sullivan. The former captured the 40-yard dash in the B. A. A. games last Saturday, from a field of crack sprinters, beating out the famed Joe Loomis, of Chicago, for premier honors; while Sullivan won the high jump in the Coast Artillery Meet on Jan. 29, with a good margin.

In the Coast Artillery meet Technology entered a number of men in many of the events. In the 75-yard dash C. I. Justheim and S. S. Swan sprinted their way into the first semi-final heats, while Swan survived another heat before he was eliminated. W. A. Sullivan made 6 ft. 3 in. in the high jump, winning over G. A. Pelletier of St. John's College, and J. O. Johnstone of Harvard who were tied for second. Sullivan had a 4 inch handicap, but won by several inches. (Continued on Page Three)

it has also been the custom for the first Marshal to appoint the ushers from Juniors nominated by the Committee.

The Secretary is chosen by the Committee. He is the permanent secretary of the class and it is he who must hold the class together after graduation.

The Treasurer is chosen by the Committee. He is on the Budget Committee and he should be elected with great care. He must be a man of unusual energy and experience in money matters as he will probably be responsible for upward of \$1500.

The Nominating Committee is made up of the Class President, Chairman of the Class Day Committee, the three Marshals, Secretary, and Treasurer of the Committee. This Committee nominates all sub-committees for the ratification of the Class Day Committee.

The Class Day Exercises Committee is made up of six men and has charge of Class Day. Men of originality and taste should be on this committee.

It has been the custom for the second Marshal to be chairman of the Dinner Committee, which is made up of three men and arranges the details of the dinner. The Committee was apparently chosen with such discretion last year that the chairman of the Class Day Committee commended the dinner as being "very successful and the conduct perfectly gentlemanly in every way."

The Printing Committee is made up of three men and involves a lot of hard work. Men who have had experience on the various Institute publications are valuable on this Committee.

The third Marshal is chairman of the Dance Committee, which is made up of six men. Former members of the Prom Committee are, in general, the best men for this work.

The Picnic Committee is made up of six men who should, as far as possible, be representative of the larger courses.

The Pops Night Committee is made up of three men, who work under the direction of the Alumni Committee.

The Baccalaureate Sermon Committee is a "committee of one" and preferably a minister's son.

The Budget Committee is made up of the Chairman and Treasurer of the Class Day Committee and the chairmen of all sub-committees. Its duty is to draw up the budget for all expenditures and to control the expenditures of all sub-committees.

And in all this it must be remembered that next June Technology will be the focus of national interest in all the eastern colleges, and that the conduct of the Senior Class must largely represent the undergraduate spirit of our great Institution. How essential it is, then, that the members of the Class Day Committee should be men who are able to think in terms of Technology rather than of class or of self, men who during their careers at the Institute have come to be true inheritors of the spirit of William Barton Rogers!



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MUSICAL CLUBS TRIP
(Continued from Page One)

formed to supplement the dance orchestra. Friday was spent in New Britain. In the morning the men visited the factory of the Eton, Crane and Pike Company, and in the afternoon they inspected the plant of the New Britain Machine Company. The last concert was given at the Central High School in Springfield and was well attended. There was no dance after this concert. The Pullman carried them back that night to Boston; they arrived early this morning.

PROF. ALLEN RETIRES
(Continued from Page One)

way. During a year, however, in this period he served as chief engineer of the water works of Las Vegas. In addition to his studies as an engineer Mr. Allen took up the study of the law, was admitted to the bar in New Mexico in 1885 and in Massachusetts in 1901. Meanwhile he was city attorney of Socorro, N. M., for a year.

He was next appointed assistant professor of Railway Engineering at M. I. T. In 1887, two years later, he became associate professor and since 1896 he has been professor, always in the department of Civil Engineering.

Professor Allen has done a large share in public and association work. He is a member and ex-president of the Boston Society of Civil Engineers, a member of the American Society of Civil Engineers, member and ex-president of the Massachusetts Highway Association, member and ex-president of the New England Railway Club, a position held by his fellow in the department, Professor C. B. Breed. Professor Allen was further a member of the American Statistical Association and ex-secretary and ex-president of the Society for the Promotion of Engineering Education.

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TRACK MEETS
(Continued from Page Two)

The relay races were not as closely contested as was expected. In the big race, Harvard and M. I. T. started off their teams over a 300 yard stretch. But Technology practically lost the race at the start when Jimmy Doon stumbled and lost his lead over E. A. Teschner of Harvard. After that it was a case of trying to overcome a bad lead, and although the Technology quartet forced Harvard, C. T. Guething, anchor man for Technology was unable to make any of the distance on the Harvard captain, W. J. Bingham. The Technology team was composed of J. W. Doon, C. S. Reed, R. L. Bent and C. T. Guething. Harvard raced Teschner, Willcox, Pennypacker and Bingham. The time was 2 minutes, 33 2-5 seconds.

In the freshman race the Harvard freshmen won by a narrow margin. Technology ran C. H. Isley, H. A. Hersog, L. C. McCloskey and L. A. Jackson, while Harvard's team was composed of Cummings, Swan, Rose and Flower. The time was 2 minutes, 39 2-5 seconds.

O'Hara in B. A. A. Meet.

F. P. O'Hara won the 40-yard dash in the B. A. A. meet last Saturday in the fast time of 44-5 seconds. The finals came after a long series of heats, and O'Hara kept in the running by just taking second in the semi-finals, and reserving his strength for the last race. He got a good start over his competitors, who were F. L. Stephenson, of the Trinity Club, N. Y.; A. B. Kelley, Holy Cross; H. Berg, Yale; Joe Loomis, Chicago A. A.; and F. D. Pollard, Boston. Joe Loomis, who had been looked upon to fight it out for the final honors with Pollard, failed to get away with the rest, although he soon made up the distance. At the finish he was going strong, but could not catch O'Hara. Loomis got second and Stephenson third, the last two named exchanging places just at the finish, when the Chicago sprinter jumped into second place.

In this meet the Technology varsity quartet met Dartmouth, while the freshmen were pitted against the Dartmouth and Holy Cross youngsters. Dartmouth won both of these races, the Technology freshmen getting second over Holy Cross. Technology's quartet in the major event consisted of J. W. Doon, C. S. Reed, M. C. Brock and R. L. Bent, Dartmouth running Trenholm, Riley, Lagay and Worthington, and the time being, 3 minutes, 7 2-5 seconds.

Dartmouth won the freshman race in 3 minutes, 23-5 seconds. The teams were, M. I. T. (J. Phelan, S. C. Fitts, C. B. Phillips and W. T. Hobbs), Dartmouth (McCloskey, Nawn, Bent and Jackson), Holy Cross (Doyle, McCarthy, Lyons and Cash).

In the B. A. A. meet the teams had to pass a Baton, thus accounting for the difference in time between the races in the Coast Artillery and B. A. A. games.

Regular practice for the track men will continue today.

BUSINESS CANDIDATES

Sophomore candidates for the advertising and circulation departments of "The Tech" can meet Dodge, Advertising Manager, or Dodson, Circulation Manager, any evening during the present week at 5.00 o'clock in the upper office. The successful candidates will be put on the new board in April.

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E. E. SOCIETY TRIP

Factories, Power Stations, Laboratories Visited.

Sixteen men, including two faculty members, took the midyear trip given by the Electrical Engineering Society. The trip included visits to New York, Philadelphia, Washington, Pittsburg, and Niagara Falls. Large manufacturing plants, power stations and research laboratories were visited, giving the men a chance to see in every-day operation these phases of Electrical Engineering.

On Monday, Jan. 31, the party was in New York. In the morning the New York Electrical Testing Laboratories were visited. The party was given a lunch at the laboratories. In the afternoon the station of the Interborough Rapid Transit Company was inspected. Four of the eight old reciprocating units have been replaced by three 30,000 K. W. turbine units, making a total capacity of 90,000 K. W., which is triple that of the old units removed and enough to carry the entire demand on the station.

The party spent Monday night and Tuesday in Philadelphia. In the morning the Electric Storage Battery Company was visited. This company makes the "Exide Battery" used in the United States submarine boats. The plates alone for five equipments of these batteries weigh 180 tons. Over 1000 tons of these plates have been manufactured.

The company builds switchboards for central stations, isolated lighting plants, battery charging plants, and car lighting. The New York Edison Company uses 51 of this company's batteries. Eighty percent of the storage battery street cars in this country are operated by "Exide" batteries.

In the afternoon the Midvale Steel Works was visited. Here the party saw battleship armor plate being cast and machined, howitzer shells being forged under great steam hammers, 8, 10, 12 and 14 inch rifles being machined. The making of alloy steel and the rolling of it and carbon steel were explained.

Tuesday night the party went to Washington where it was conducted through the Bureau of Standards, the work in each branch being explained by the person in charge. The accurate measuring of the various electrical quantities occurring in practice is of great commercial and technical importance as well as of scientific interest, and the Bureau is responsible for the maintenance of the units in terms of which such measurements are made. In addition, improved standards and measuring apparatus have been developed. Among the instruments tested and certified are resistance standards, precision rheostats, wheatstone bridges, potentiometers, and standard cells. Photometric work, electrolysis investigations, heat measurements, and testing of materials is also done.

Wednesday morning the party arrived in Pittsburg and went through the plant of the Westinghouse Electric & Manufacturing Company. Only the electrical part of the plant was touched.

Thursday night was spent at Buffalo and the next morning the party went to Niagara Falls. The Niagara Falls Power Company was visited first. This company and its allied interest, the Canadian Niagara Power Company, develop 175,000 h. p. The Hydraulic Power Company's plant was visited the same morning. On Saturday the Ontario Power Company and the Hydro-Electric Power Commission's plants were visited. The party left Buffalo Saturday night for Boston.

TECHNIQUE SIGN-UPS
(Continued from Page One)

the more bashful members of the class.

Societies, clubs, and other organizations which have not yet filled out their contracts will confer a great favor on Societies Editor Whitney by indicating their desires regarding inserts. Lists of members and general data are acceptable at the Technique office at any time; the office will be open every week day afternoon from 5.00 to 6.00 p. m.

Although Technique refuses to remark on the Grind section, members of the Board have been heard laughing outright over the material,—an unusually favorable sign. It is hinted even that the Statistics Editor will contribute an occasional chuckle-provoker to the general holocaust.

The Board will hold a meeting this afternoon at 5.00 o'clock, in the office.

PATRONIZE ADVERTISERS



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WRESTLING MEETS
(Continued from Page One)

Perrish of Penn State fought to a draw in 9 min. and extra 6 min. period.

Heavyweight class—Crainekie of Penn State won from Sache of Tech on decision. Time, 9 min.

Lehigh vs. Technology.
115 lb. class—Capt. Kickhuff of Lehigh with a half nelson and body hold, threw Capt. Loo of Tech. Time, 3 min., 4 sec.

125 lb. class—Murtin, Lehigh, won decision from Rounds, Tech. Time, 9 min.

135 lb. class—Hiss, Lehigh, decision over Hoffman, Tech, in 9 min. and two extra periods of 3 min.

145 lb. class—Shafer, Lehigh, decision over Morse, Tech, in 9 min. and two extra 3 min. periods.

158 lb. class—Parrish, Lehigh, decision over Wirt, Tech, in 9 min. and two 3 min. extra periods.

175 lb. class—Levin, Lehigh, threw Todd, Tech, with a half nelson and body hold. Time, 6 min., 55s.

Heavyweight class—Dayton, Lehigh, and Sache, Tech, went 15 min. to a draw.