

THE TECH

VOL. XXXIII. NO. 45.

BOSTON, MASS., WEDNESDAY, OCTOBER 8, 1913

PRICE TWO CENTS

RECEPTION GIVEN BY THE ELECTRICAL SOCIETY

Tomorrow Night in the Union—All Men From Courses VI and XIV.

The members of the Electrical Engineering Society will hold a reception to the Juniors and Sophomores of Courses VI and XIV at the Union tomorrow evening at 8 P. M. A number of speakers from the Faculty and Senior class will be present. Professor Pender of the Electrical Engineering Research Department will speak on the "Objects of the Electrical Engineering Research Department," and Professor Jackson will tell of the "Relation of the Society to the Institute."

The purpose of this reception is to acquaint the members of these two courses with the advantages of membership. Although Sophomores are only admitted to associate membership, the real advantages are open to them. They enjoy the lectures and are entitled to all the excursions of the society. They are not given a right to vote in their Sophomore year, but may do so upon becoming full members in their Junior year. Many things are open to members of the society, which would otherwise be closed, and thus the benefits are obvious.

All those attending may be sure of a hearty welcome and a profitable evening.

C. E. SOCIETY BALLOTS

In yesterday's issue of THE TECH the statement was made that the C. E. Society nominations should be handed in to J. W. Hine. This is an error. Mr. Hine is secretary of the E. E. Society and the C. E. nominations should be handed in at the Cage for F. Foote, secretary of that society.

COLUMBUS DAY RACES

Yesterday afternoon the following men reported at the Boat House and took the first practice row: Todt, 1; Whittemore, 2; MacRea, 3; Lee, stroke and Candy, coxswain. At present the object of the club is to enter as many men as possible in the Columbus Day races, which will be held next Monday afternoon. So far several men have handed in their names for entrance in the races. All applications should be in today before 4 P. M., left at the Cage addressed to Eugene Lucas, Jr.

FRESHMAN TUG-OF-WAR

Place of Practice Announced—Candidates Irregular.

Manager Wood wishes to announce that practice for the Freshman tug-of-war team will be held at 4 o'clock every day. Today it will be held at the Oval. Thursday the practice will be back at the gym and Friday at the Oval again. The gym and Friday at the Oval again. The team seems to be irregularity. The men who want to qualify for the team should realize that regular attendance and hard work are great factors in determining the final make-up of the team.

Number one for the Athletics.

FIRST T. C. A. TALK OF YEAR THIS NOON

Dr. George A. Crawford to Speak on "Why Doesn't God Forgive Everyone?"

Tomorrow noon the first of the weekly talks held under the auspices of the Technology Christian Association will be held in the Union. This will be the first opportunity for the new men at the Institute to be present at one of these talks, and the T. C. A. has secured an excellent and popular speaker to start the series. The speaker will be Dr. George A. Crawford, Chaplain U.S.N. (Retired), of Brookline.

Rev. Mr. Crawford spoke last year in the Union and spoke on "An Unanswerable Argument." Tomorrow noon he will speak on the subject, "Why Doesn't God Forgive Everyone?" Dr. Crawford needs no endorsement in the minds of Tech men, for he is already well known to most of the students.

The T. C. A. meetings are held in the Union every Thursday noon, at 1.30, and are well attended by the students at large. The T. C. A. aims to have speakers present who will speak interestingly on subjects relating to the practical side of life, and on the various social problems of the day. The talks are in themselves an education, and much good is derived from them. The fact that they are popular with the students was shown last year by the large attendance at the meetings.

The T. C. A. hopes to see a large number of the Freshmen at tomorrow's meeting, at 1.30 in the Union, and the Association hopes that the men of '17 will give the talks their full support.

INSTITUTE COMMITTEE

There will be a meeting of the Institute Committee on Friday afternoon at 4.15 in Room 8, Eng. C. All new representatives and last year's class representatives are required to be present. The following committees, appointed last year, will be prepared to report: The Point System Committee, the Bulletin Committee, and Union Committee.

FRESHMAN RELAY

Up to the present time seventeen men have reported for practice at the Field. The men who have been out so far are Angell, Barnard, Briggs, Day, C. Dean, Dodge, F. Ford, W. Ford, Freind, Gardner, Quillot, Sullivan, Williams, Winton, Atkins, Frb, Futterer, and Stearns. Considering the poor weather conditions of the last few days, this is a pretty fair showing, but there is room for about three times as many. The preliminary tryouts come in about three weeks, on the 20th. This makes it necessary for every man, who has serious intentions of trying out for the team, to come out immediately. There are ten regular and two substitute positions to be filled, so there is a chance for everybody. Anyone who would like to try should go out to the Field where they will find Coach Kanaty and Manager Freind any afternoon.

COSMOPOLITAN CLUB RECEPTION FRIDAY

Many Interesting Entertainments Provided For—Foreign Men Invited To Come.

There will be a reception of all foreign students by the Cosmopolitan Club Friday night at 7.45 in the Union. The reception will be conducted as an informal smoker in order that it can be a real get-together meeting and everyone may feel at home. The purposes and aims of the club will be explained, and the activities into which it enters will be fully discussed. Songs and light entertainment will also assist greatly in making a very pleasant evening.

The officers of the club have asked several of the Technology professors to talk on subjects which shall be of interest to the men from the various countries represented. Inside the club there is much talent, and men from all parts of the world will entertain in a manner characteristic of his own nationality. The Chinese members have amused and perplexed the crowd with their skillful sleight-of-hand performances on many occasions.

The Cosmopolitan Club is one of the foremost activities at Technology, and an activity which every foreign student would do well to join. Here one can meet men from nearly every country of the world. The advantages of such contact are invaluable. The club extends a cordial invitation for the reception Friday night to all the foreign students at the Institute.

MUSICAL CLUBS' MEETING

Talk On This Year's Work Today at 4.30 In Union.

The talk which is given to the M. I. T. Combined Musical Clubs for the benefit of the old members, and enlightenment of the new men who expect to join, will be held at 4.30 this afternoon in the Union. The plans for the coming year will be outlined, the rather extensive trips, which the Musical Clubs expect to make this year being discussed.

The mandolin and banjo trials will be held Thursday afternoon at 4.15 in the Union. Anyone who knows how to produce a note on an instrument allied to the banjo or mandolin is welcome. It is also hoped that a large number of candidates will be on hand for the Glee Club trials to be held in the Union on Friday at the same hour. President Taylor and General Manager Salisbury desire to have the Clubs as large as possible; as it is believed that better results are then possible.

SENIOR NOMINATIONS.

Nominations for the Senior Class Officers are due October 11 at 1.00 P. M. The offices to be filled are those of President, Vice-President, Secretary, Treasurer, Executive Committee (two), Institute Committee (two), Athletic Association (two). The papers must be signed by at least ten members of the class who have paid their dues. The Election Committee desires to have at least two nominees for each office.

MEMORIAL PRESENTED TO THE INSTITUTE

Given in Memory of Dr. Jacob Biglow, a Founder of Technology.

The latest gift to the Institute of Technology is a bust of Dr. Jacob Biglow, M.D., presented by his grandson, Dr. William S. Biglow, of this city. The chief interest of this to Tech students is that this man was one of the Bostonians who gave encouragement and financial aid to Professor Rogers in the establishment of this Institute.

Born in 1786, Dr. Biglow early became noted as a physician, a teacher of medicine and a student of natural science. In 1816 he delivered the inaugural address at Harvard University. As early as 1829 he began to call public attention to the relations of Technology to the arts by giving a course of lectures on the subject. Twenty-five years later when Professor Rogers came to Boston filled with the idea of a technical school he found in Dr. Biglow a ready sympathizer and enthusiastic supporter. Dr. Biglow became one of the first four vice-presidents of the Technology Corporation elected in the first meeting held May 6, 1868. This position he held until two years before his death, which took place in 1879. Dr. Biglow was the author of a number of scientific works, but the chief interest of Technology students in him is the fact that the founding of Technology was in a large measure due to him.

The bust, which is of marble, is to be placed in the library, together with those of Mrs. Rogers, Mr. C. C. Perkins and Dr. Walker.

WEATHER

For Boston and vicinity: Wednesday, probably occasional rains; brisk to moderate northeast winds.

CALENDAR

Wednesday, October 8, 1913.
4.00—Tug-of-War—Oval.
4.00—Time limit on application for boat races.
4.30—Musical Clubs' Meeting—Union.
8.00—Electrical Engineering Society Meeting—Union.
Thursday, October 9, 1913.
1.30—T. C. A. Talk—Union.
4.00—1917 Tug-of-War—Gym.
4.15—Mandolin Clubs—Union.
5.00—Banjo Club—Union.
5.00—Junior Nominations Due—Cage.
6.30—Finance Committee Dinner—Union.
Friday, October 10, 1913.
4.15—Institute Committee—Union.
4.15—Glee Clubs' Tryouts—Union.
5.00—Chess Clubs—Union.
8.00—Cosmopolitan Club Reception—Union.
Saturday, October 11, 1913.
Afternoon—Hare and Hounds Run—Hyde Park.
5.00—Senior Nominations Due—Cage.

Nine Sophomores are reported as the total number of candidates for tug-of-war team.

THE TECH

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WEDNESDAY, OCTOBER 8, 1913.

The plans made this year by the T. C. A. for the assisting of new men have met with universal approval throughout the Institute. The same thing, it is true, has been done in the past, but the scale of its accomplishment this year, and the careful attention to every detail, make the present work especially effective. Mr. Talbot and his assistants are to be congratulated on the successful completion of what seemed at first an impossible undertaking.

We wonder whether the spirit which has animated these men might not well find a slightly wider application. Could not even those of us who have not felt able to shoulder the responsibility which falls upon a student adviser, yet be a bit more alive to our little opportunities to help those who have come as strangers among us? More than once we have heard of man coming to Tech from a distance, unknown, friendless, and awed by the iron indifference of the machine in which he had become a cog, struggling for weeks with loneliness as well as with lessons, and finally giving it up in despair. It is true that there is no necessity for any man feeling himself a stranger at Tech after the first week, for opportunities are afforded to become acquainted with his fellows and with the social life of the city; but there are always a few who are timid, or who are not reached by the "opportunities" and "advantages" which are presented and who want nothing but plain friendship. To speak of sympathy or human kindness in a school like this is sometimes accounted sentimental twaddle, but these qualities are the only lubricant for the wheels of fate, and we are in no danger of having too much of them.

ENGINEERING AND SCIENTIFIC NOTES

Cassier's Engineering Monthly for September contains a very interesting account of a gigantic power plant under construction at Keokuk, Iowa. This plant is located at the foot of the Des Moines Rapids, where the energy of a very large body of water falling a moderate distance of from 30 to 40 feet is to be converted into 200,000 horse-power of electrical energy. In order to make possible the utilization of the entire flow of the Mississippi, a dam over 4,500 feet long has been constructed perpendicular to the line of flow, and adjacent to this is perhaps the largest power house in the world, measuring 1400 by 123 feet. The power is developed from the falling water in turbines of the well-known Francis type which have a capacity of 10,000 H.P. each. These machines are driven at a moderate speed and are built on the "reaction" pattern which has proven more efficient in the existing conditions than the "impulse" turbines which operate so well with a small body of water having a large head. Coupled directly to the turbines are the generators, enormous machines some 31 feet in diameter and standing over 11 feet in height.

The distribution of this energy once it is generated presents in itself a difficult engineering problem. The nearest large city is St. Louis, 144 miles away, and the energy is to be transmitted thence at a potential of 110,000 volts along wires supported by steel structural towers.

Here is a step towards conservation and a powerful attempt of man to harness the forces of nature. To quote, "The mighty Mississippi River is to be hitched to the machinery and devices of civilization just as truly as ever a work horse was harnessed to plow or wagon."

The article is illustrated by several excellent photographs and drawings.

ANTIMONY A BY-PRODUCT

While no antimony was produced in the United States last year from domestic ore, a considerable quantity was saved in the form of antimonial lead, which is obtained at the smelters of precious metals in the course of their operations, and large quantities of antimonial alloys are recovered from secondary sources, such as scrap bearing and type metals, solder, and antimonial lead drosses. From antimonial lead of both domestic and foreign origin but smelted in the United States, according to figures compiled by the United States Geological Survey, 1,949 short tons of antimony were produced, while from old alloys, scrap, dross, etc., 2,506 short tons of antimony were recovered.

Frank Kanaly is expecting the finest Freshman relay team of recent years.

Membership in most of the professional societies is now open to 1915.

A few interesting brushes are beginning to appear on the track.

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Articles enumerated below have been found. Owners of same may obtain them at office of the Supt. Bldgs. and Power, 26 Trinity Place.

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TECH AND WALKER CLUBS
RECEIVE COLLEGE MEN
 Successful Entertainment Given at
Technology Club—
 Good Speeches.

The reception given yesterday evening by the Walker and Technology Clubs to men from other colleges at the Institute was attended by at least a hundred guests, besides about fifty of the club members. At 8.30 E. L. Snow, president of the Walker Club, opened the evening with a short address of welcome and explained the nature and purpose of the Walker Club. He then introduced Professor C. W. Doten, vice-president of the Technology Club, who gave a short talk, setting forth the advantages of the club, and extended a cordial invitation to the new men to join.

Dean Burton was then called upon for a short address, which was received with the usual enthusiasm, after which Professor Arlo Bates then spoke at slightly greater length and with his usual humor. The men then adjourned to the dining room to partake of some light refreshments and to get acquainted.

WRESTLING SQUAD

Freshmen Should Come Out For Practice At Once.

The Institute Wrestling Team is again looking forward to another season as successful as last year. A large number of last year's team is back and several of the substitutes also. The men are already practising every afternoon at the Gym from 4 to 6. The Freshmen this year will not be allowed to substitute wrestling for gym work unless they make good or show interest. Smythe-Martin, the wrestling team manager, advises all Freshmen who intend to substitute wrestling for gym work to come out at the present time so that their chances of remaining on the squad will be better.

The Varsity schedule has not been arranged as yet, owing to the fact that the other teams and clubs have not started to make up theirs.

FACULTY NOTICES

All commissioned officers and volunteers for commissioned offices in the Cadet corps will meet Wednesday at 3 P. M., in South Armory for instruction.

E. T. Cole,
 Major U. S. (retired.)

Beginning Thursday, Oct. 9, the First Year Class (Sects. 3-6-7-8-9), meeting in 10 Engineering B, will meet in 21 Engineering B.

Beginning Friday, Oct. 10, the First Year Class (Sects. 19-14-17-18-22), meeting in 25a Lowell, will meet in 8 Engineering C.

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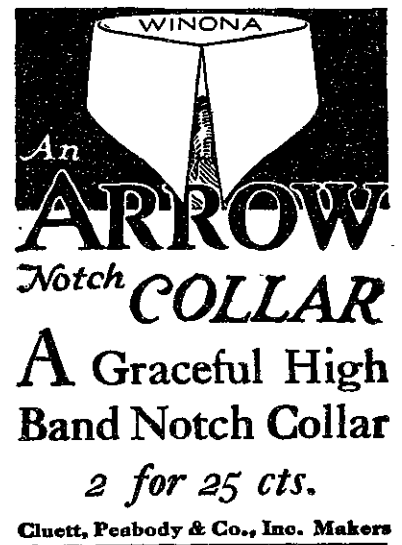
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