

THE TECH

VOL. XXXIII. VOL. NO. 47.

BOSTON, MASS., FRIDAY, OCTOBER 10, 1913.

PRICE TWO CENTS

DR. CRAWFORD GIVES FIRST T. C. A. TALK

A Large Number of Men Hear Inspiring Talk in Union Yesterday.

Yesterday noon, Dr. George A. Crawford held the attention of every man in the Union, throughout the whole amount of time allotted him to speak in the first T. C. A. talk of the year. Rev. Mr. Crawford, who is a retired chaplain of the U. S. N. and who spoke here at the Institute last year, had for his topic, "Why God Doesn't Forgive Everyone," and his talk proved to be an interesting and admirable one to begin the series of T. C. A. talks.

Dr. Crawford was of the opinion that a particular relationship must exist between the parties in question, the party to be forgiven, and the party to forgive. Without this relation, pardon can not be expected. Dr. Crawford told that he had recently been serving in his capacity as chaplain at the State Prison, and he spoke of one particular prisoner who, in spite of the fact that he was very clever and skilful along various lines, found himself back to prison time and time again. The speaker said that it would do no good to pardon this man in question, for the reason that it would not change the individual. The act could be pardoned, but the condition would not be. The prisoner could be forgiven for stealing, but not for being a thief.

Similar criminals, he said, were sentenced to prison not because they happened to have committed a theft, but because they were thieves. Dr. Crawford said that in this fact lay the difficulty. Society, he went on, does not know how to handle criminals. A man, according to the chaplain, is not a sinner because he sins, but he sins because he is a sinner; he is not a liar for the reason that he lies, he lies because he is a liar.

Church and Society reformers make the great mistake, in the mind of the speaker, in trying to make criminals. If a man can be made to stop being a thief, he won't steal. It is wholly a question of changing the condition, and not of pardon.

Dr. Crawford said that a man can not be a Christian on Sunday and be something else every other day. A man who is a Christian is a Christian by nature; it is his condition. It is no use to forgive a man if his condition can not be forgiven. A bad man, the speaker said, has only one chance, and that is to change his condition, to be born all over again, and start anew. It is after all, not a question of pardon, but a question of fundamentals—of principles.

EPISCOPALIANS

The Tech Chapter of the Brotherhood of St. Andrew will hold a meeting this evening at Trinity House, 93 St. James avenue, for the purpose of devising means of interesting the new men at the Institute in the Society. The meeting will be called sharply at 7 o'clock. All members are urged to be present.

FINANCE COMMITTEE MEETING YESTERDAY

Cadet Corps Invited To Send Representative To Committee.

Last night the Finance Committee held its second meeting in the Union at 7.30, with "Pa" Coburn as the graduate member. Reports were received from all activities except the Classes of 1916 and 1917, the Institute Committee, the Orchestra, the Musical Clubs, the Union Dining Committee, Technique 1914, and the Biological, Mining and Wireless Societies.

After the reports had been read and discussed carefully, the committees appointed at the meeting of last week reported informally. None had finished the work intrusted to it, and so final reports are to be made at the next meeting.

Then the question of the M. I. T. Cadet Corps was discussed. A statement of conditions as they now exist was given by one of the members, and as a result of this it was voted that the M. I. T. Cadet Corps be invited to send a representative to the Finance Committee regularly. It was also voted that the Boat Club and the Hare and Hounds Club be invited to send each a representative to the Committee.

Later consideration of the M. I. T. Cadet Corps question led to a vote that the Finance Committee recommend to the Institute Committee the advisability of suggesting the organization of an executive committee of the Cadet Corps, to be elected by companies, to have charge of social activities, and to have representation on the Finance Committee.

SOPHS SCRIMMAGE TODAY

Practice At North Brighton With Mechanic Arts High.

At 4.15 this afternoon the 1916 Football team will have practice with the Mechanic Arts High School team. This is not a practice game but merely scrimmages between the two teams. The work-out will take place at the North Brighton Playgrounds. Shower baths and lockers will be available.

To reach the Playground one should take a Cambridge Subway or Harvard Square surface car. At Central Square get a transfer and take a Western Avenue car to the grounds.

Coach Curry wants all the candidates out as this will be the last opportunity to test out the plays before the Wellesley High School game on Monday. The lineup used will be the same as that to be used against Wellesley. The later game will begin at 3 o'clock Monday, and the train to be taken will be announced in tomorrow's issue of THE TECH

GLEE CLUB TRY-OUTS

The Glee Club try-outs will take place in the Union this afternoon at 4.15. There is a great opportunity for all fellows who sing. The management desires to have a large number of candidates. If you sing, be sure to come to this meeting.

JUNIOR NOMINATIONS BROUGHT TO CLOSE

Large Number of Candidates in Field—Co-ed Out For Secretary.

The nominations for the Class of 1915 have closed with the following men up for the several offices:—

President.

F. P. Scully.
H. P. Sabin.
E. B. Goodell.

Vice-President.

R. S. Fletcher.
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Clerk.

M. L. Marion.
C. E. Sifton.
R. D. Waterman.

Institute Committee.

J. B. Franks.
C. W. Fry.
J. A. Tobey.
C. W. Wood.
C. W. Howlett.

Executive Committee.

T. R. Johnston.
F. C. Foote.
T. G. Brown.
N. L. Foster.
L. E. Armstrong.

Athletic Association.

C. L. Morse.
M. E. Hill.
A. B. Curtis.
T. H. Huff.
A. C. Blodgett.
T. E. O'Brien.

The ballots will be ready at the Cage about Saturday. They will be due on October 21, 1913, and the class dues must be paid up before this. Otherwise the ballots will be void.

ARCHITECTS' MEETING

Reception Next Friday Evening.

At the first meeting of the Architectural Society in Pierce yesterday, the names of the Sophomores who have applied for admission to the Society were read and will be given careful consideration before acted upon.

Next Friday evening, Oct. 17, at 7.30 o'clock the Society will give a reception to the new instructors and students. It will be a very informal affair with plenty of eats and smokes. This reception will furnish an excellent opportunity to see some of the works by the new professors, including those of Associate-Prof. Le Monnier, Associate-Prof. Edgar I. Williams and several of the other instructors.

Look over the new editorial head. There are several changes.

Number three for the Athletics. Two and one.

COSMOPOLITAN CLUB TO START SEASON TONIGHT

Club Makes Arrangements For Big Smoker—Foreign Students Invited.

The Cosmopolitan Club will begin the season's activities tonight with a good old smoker. A carefully planned program has been arranged as follows: 1. Welcome by the President of the Club. 2. Vocal solo by Mr. V. M. F. Tallman. 3. Talk by Dean Burton. 4. Flute solo by Mr. T. C. Hsi. 5. Talk by Professor Seaver. 6. Vocal solo by Mr. Howell Taylor. Following this the Tech songs will be sung, refreshments will be served, and a general good time will be enjoyed. This is really a reception to foreign students and all are urged to be present to represent their respective countries.

Not until recent years has the Cosmopolitan Club been recognized as one of the important activities of the Institute, and the members are most anxious that this year shall surpass all others. In past years entertainment has been furnished by the various members in ways characteristic of their own countries. This method has proved decidedly interesting and instructive and has won the attention of the Faculty.

All foreign students are cordially invited to attend and enjoy one of the pleasantest gatherings afforded by their Institute life. The meeting will be held in the Union at 7.45 sharp.

BAMBOO TESTING

It is very probable that the tests which were to be made last year in regard to the use of bamboo and reinforced concrete will be carried out this year in thesis work by one of the Chinese students. The bamboo was imported last year by H. C. Chow and was intended to be used on thesis work but arrived too late. This year the tests will probably be made on the tensile strength to determine the actual value of bamboo in engineering work. The tensile strength of bamboo, its strength when filled with concrete, and its use in reinforced concrete will probably enter into the tests.

WEATHER

Forecast for Boston and vicinity: Unsettled with probably local rains; moderate easterly winds.

CALENDAR

Friday, October 10, 1913.

2.15—Arch. Eng. Society Meeting.
4.15—Institute Committee—8 Eng. C.
4.15—Glee Clubs' Tryouts—Union.
5.00—Chess Clubs—Union.
7.00—Brotherhood of St. Andrew—93 St. James Ave.
8.00—Cosmopolitan Club Reception—Union.

Saturday, October 11, 1913.

2.14—Leave Back Bay Station for Hyde Park—Hare and Hounds Run.
5.00—Senior Nominations Due—Cage.

THE TECH

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FRIDAY, OCTOBER 10, 1913.

Aside from the entertainment and instruction afforded by the weekly T. C. A. talks, they fill one other need in the life of the Tech man who makes the best use of them: they teach him to think. The speakers, for the most part, are not the narrow type of men who confine themselves to imparting information; they aim rather to provide the starting-point for lines of independent thought on the part of their hearers. Such is the case with yesterday's talk, of which a report is given in another part of this issue.

This is a point which we often hear emphasized, yet which we always tend to under estimate. We are told repeatedly in the class-room, in talks to professional societies, etc., that education consists not so much in the knowledge we store away as in the power we acquire of exercising the gray matter of our brains. Each one of us, if he stops to think, knows this to be true; yet we scarcely ever apply this knowledge even to the professional side of our education, not to mention that more important and more difficult branch sometimes described as cultural. How many of us ever went into the general library and hunted up a book with the specific purpose of compelling ourselves to think? Yet this is perhaps the easiest way, next to attending a T. C. A. talk, of attaining that object.

The idea of adding wrestling matches to the Field Day events has been suggested, and while we are not certain of its desirability, it is at least worthy of more attention than it has received. While the main idea of Field Day is to provide a safety-valve for the animosity of the two lower classes, any addition which will give to more men the benefits of participation deserves consideration. Of course if the wrestlers would be drawn from the other events the benefits would be doubtful, but the scheme appears to be worth a trial.

This weather is the despair of the athletic organizations, especially the tennis association.

ENGINEERING AND SCIENTIFIC NOTES

According to Mr. F. H. Page, an English aeroplane designer, for machines of equal span, cross section, etc., the monoplane has about 15 per cent more lift than the biplane with equal speeds. The monoplane has a slightly less resistance than the corresponding biplane, but what is gained in this direction is offset by the increased size of the under-carriage members for a given size propeller. For machines having an area of 250 to 275 square feet the monoplane is conceded to be the most economical type, but with larger area the bi-plane leads.

A submarine telephone is to be laid between Holland and England. The length of the cable will be over one hundred miles and the total expense is conceded to be the most economical type, but with larger area the bi-plane leads.

Some rather queer and yet often disastrous causes of explosions in grinding mills are the sparks by fragments of iron caught between the rollers which ignite inflammable materials such as oil, cotton waste, etc. Several European mills have succeeded in overcoming this difficulty by constructing powerful electro-magnets inside revolving drums called magnetic separators, which serve to pick out such objectionable obstacles from the material to be ground and to carry them upward until removed by a suitable scraper. In the improved types, the inside magnets are wound with aluminum wire, self insulated by the oxide, so that the coils are heat and moisture proof and the device is very reliable. Such magnetic separators are recommended for cocoa or bone mills, chemical works, coal crushers, sugar refineries and grain mills, as well as in the textile industries.

MANDOLIN TRIALS

Next Rehearsal Thursday—New Men Report Then.

The following men were present at the try-out for the Mandolin Club yesterday and will report at the first rehearsal next Thursday, October 16, at 4.15 o'clock in the Union: W. J. Beadle, E. P. Brooks, P. V. Cristal, W. B. Ford, R. K. Fessenden, F. L. Ford, R. T. Friebus, F. F. Glen, R. E. Haylett, J. H. Holton, D. O. Hooper, K. T. King, D. L. Patten, S. E. Piza, A. Simmons, R. B. Stringfield, A. R. Stubbs, C. J. Ward, F. E. Stern. Any men who formerly belonged to the club, but who were not present at the trials are expected next Thursday. Any new men who were unable to come to the trial should make an effort to be on hand at the first rehearsal.

1916 RELAY PRACTICE

More Men Needed to Strengthen Team—Fifteen Out Yesterday.

The 1916 Relay Team is fast getting in form under the management of Capt. Dean and Coach Kanaly. Fifteen men showed up for practice at the Field yesterday afternoon. They were: Guething, Loomis, C. S. Reed, Hine, Hayes, Dean, Page, Goldstein, and Lieber, all last year's men; and the new candidates were Burford, Laurason, Gagnon, Fletcher, Garita, and Childs.

Captain Dean wants all men who have any idea of coming out to show up for practice immediately, as the 1917 team is showing up well. As yet Kittredge and Comisky of last year's team have not turned out, and it is hoped that they will soon come out for practice.

BOSTON BASIN GEOLOGY

Considerable interest attaches to the field work which is being carried on this season by the Geological Survey in the State of Massachusetts. The geology of the Boston Basin, including the areas known as the Boston, East Boston and Framingham quadrangles, is being examined in great detail by Geologist Lawrence La Forge, and this season's work will complete his field studies necessary to the preparation of a geologic folio, including geologic and topographic maps, describing the interesting and complicated geology of this area. The publication is expected to be of high educational value, as well as of local interest and importance. In several other quadrangles, in the central portion of the state, geologic mapping for folio publication is in progress by Prof. B. K. Emerson. The Pleistocene geology of a portion of the state, including the Housatonic area, is being investigated by Frank B. Taylor.

In the eastern part of the state, through an arrangement with the Federal Bureau of Mines, studies of the peat bogs have been made by Charles A. Davis, and have disclosed most interesting evidence of the gradual sinking or subsidence of this area still in progress. While this sinking of the peat bogs is of considerable geologic interest, the rate of subsidence is too slow to warrant any alarm on the part of the people living in the vicinity.

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COMMUNICATION

To the Editor of THE TECH:
It seems to me that the House Committee should get busy and place some up-to-date magazines in the Union. At present there are but four in the Union, Harper's, Life, the Scientific American and the Saturday Evening Post. With the exception of the last named these are all old. With more magazines to read the Union would become quieter and less rough-housing would take place.
Respectfully,
A READER.

Professor Jackson says education is not a process of driving facts in, but of assimilating and sorting out facts for one's self. Otherwise one is merely a sewage disposal plant.

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ANNUAL FALL INTER-CLASS HANDICAP MEET

Preliminary Meet October 18—New Men Show Up Well—Generous Handicaps.

The Annual Fall Handicap Meet will take place Saturday, October 25. This is one of the few interclass contests of the year and it is a splendid opportunity for any man to score for his class and make his numerals, as there are four places in each event and very generous handicaps are given to new men. Handsome medals are given to those scoring.

In order to make a close and interesting contest proper handicaps must be given. For this purpose a preliminary meet will be held a week before on the 18th. Although new men are showing up exceptionally well as regards both numbers and ability, it is especially desirable that the men who were on the regular team last year should show up more regularly from now on as the first meet is only a little more than a week distant.

FRESHMEN vs. JUNIORS.

1917, 12; 1915, 10; In Short Scrimmage Yesterday.

The Freshmen and Juniors engaged in a short scrimmage yesterday afternoon at the Tech Field. 1917 scored two touchdowns; and 1915 two safeties and one touchdown. The following Juniors took part: Boynton, Scully, McDaw, Proctor, Howlett, Morse, and White. Thompson starred for the Freshmen at left half, making three long runs, and one touchdown by a line plunge from the 15-yard line.

Scully and McDaw made long runs for 1915, and a forward pass from Morse to Scully resulted in another large gain. Morse made the only touchdown for 1915. The Freshman team made several fumbles, but considering the early date, the outlook is very promising, and a good showing may be expected in the Somerville game which comes next Monday. The men are showing a great deal of enthusiasm and can be relied upon to put up a good fight Columbus Day.

Besides this game, Manager Atkins has games in view with Lowell Textile, Newton High and Waltham High.

TECH REPRESENTED

Professor Sedgwick Talks at New Bedford.

Tech was well represented at the meeting of the Massachusetts Association of Boards of Health yesterday at New Bedford. Professor W. T. Sedgwick was there and Robert S. Weston, who is taking the place made vacant by the call to Washington of Dr. Phelps, together with two of the graduate students in Sanitation and the whole of the new Co-operative Health School that Harvard is carrying on together with Tech. In the forced absence of Dr. Phelps and Dr. Rosenau, who were scheduled to speak, Dr. Sedgwick gave an abstract of both their papers. About one hundred health officers of Massachusetts towns and cities were in the company and visited the garbage disposal plant, the intercepting sewer under construction and the pumping station and filter and dosing plants.

Results of the Fall Tournament are coming in very slowly. Only one match decided, and that by default.

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**ROSTER OF STUDENT
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Sophomores Are Wanted for Battalion Adjutants and Lieutenants.

The roster of the student regiment has been determined upon, although there are still positions open for two battalion adjutants and lieutenants. These vacancies should be of special interest to Sophomores. That the positions are valuable and that the men enjoy the work is shown by the fact that every 1915 man who was in the regiment last year has returned to drill. The roster is as follows:

Field and Staff Officers

Cadet Colonel—L. F. Hamilton '14.
Cadet Lieutenant Colonel—C. H. Chatfield '14.

Cadet Captain—C. R. Gardner '15, Regimental Adjutant.

First Battalion

Cadet Major—Parry Keller '15.

Company A

Captain M. F. Brandt '15, Lieutenant Leonard Stone '16, Lieutenant L. W. Barrett '16.

Company B

Captain C. W. Harvey '15, Lieutenant R. E. DeMerritt '16, Lieutenant R. Miller '16.

Company C

Captain J. A. Tobey '15, Lieutenant A. L. Giles '16, Lieutenant W. G. Brown '16.

Company D

Captain G. A. W. Davis '15, Lieutenant H. L. Bickford '16, Lieutenant F. E. Stern '16.

Second Battalion

Cadet Major—Harold F. Bent '14, Senior Major.

Company E

Captain Harold A. Storke '14, Lieutenant E. B. Stockman '16, Lieutenant A. C. Lieber '16.

Company F

Captain A. N. Althouse '15, Lieutenant A. H. Smart '16, Lieutenant L. S. Wright '16.

Company G

Captain H. G. Borden '14, Lieutenant H. A. Hands '16, Lieutenant T. F. McSweeney '16.

Company H

Captain B. S. Curtis '15, Lieutenant G. W. Wyman '16.
Captains L. E. Best '15, J. A. Steere '15, B. Landers '15, unassigned.

INSTITUTE COMMITTEE

The Institute Committee will hold an important business meeting this afternoon at 4.15 in 8 Eng. C. Reports are expected from all the standing committees. The need of a calendar committee and suggestions for Tech Night will be laid before the meeting. Also an undergraduate member of the advisory board to THE TECH is to be elected. On account of the importance of the business all members of the Committee are requested to be present.

CHESS CLUB MEETS

A meeting of the Chess Club will be held in the Union this afternoon at 5 o'clock. The election of officers will be held at that time and a discussion of the plans for the year. Last year a number of interesting matches were held in which the Tech team came out very successfully, and this year as good a schedule will try to be arranged.

Those interested in chess, and any who desire to join the Club should attend this meeting.

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