

THE TECH

VOL. XXXIII. NO. 59.

BOSTON, MASS., SATURDAY, OCTOBER 25, 1913.

PRICE TWO CENTS

TECH NIGHT SEATS ON SALE MONDAY

Special Sections To Be Reserved For Faculty and Alumni

The Sophomore committee, in charge of the Tech Night theater performance, consisting of Lucas, Shakespear and Storm, has made all the preparations for the sale of seats. As previously stated in the columns of THE TECH, the show will be the "Honeymoon Express," at the Shubert, with Al Johnson in the leading role.

The seats will be on sale in Rogers Corridor next Monday at 1 P. M. As is customary, the Sophomores, Juniors, and Seniors will have seats on the floor of the house, while the Freshmen will occupy the balcony.

The members of the different Field Day teams will have seats together. The managers of the teams will take care of the sale of tickets to the merit of their teams.

This year the committee is introducing a new feature, a reserved section for the Faculty and the Alumni. Sale of seats in these reservations will open at 1 P. M. Monday and close at 2 P. M. the same day. The Faculty will sit in the first row of the orchestra under the balcony. The location of the Alumni section has not yet been announced.

TRAINING TABLE

Cross-Country Team Secures Place At 31 Newbury Street.

The management of the Cross-Country Team has succeeded in getting a training table at 31 Newbury street, and from all indications the service will be very satisfactory. The men will get luncheons and dinners there every day of the training season, beginning Monday. Until the team is picked on next Saturday all men on the squad will eat there. The men making the team and those of the Freshman class that are going to make the Freshman Cross-Country Team will be the only ones eligible after that date.

The charge will be five dollars for fourteen meals, special arrangements being made for men that are living out of town.

T. C. A. SPEAKERS

Correcting an error made in yesterday's issue of THE TECH, the list of speakers at the meetings of the T. C. A., which are held in the Union Thursday noons, is announced as follows:—

October 30—Rev. Willis H. Butler, assistant pastor of the Old South Church. His topic will be "Spiritual Efficiency."

November 6—Mandikane Qandiyani Cele, a Zulu Prince.

November 13—Rev. Norman M. Thomas, English pastor of the East Harlem Presbyterian Church, New York City.

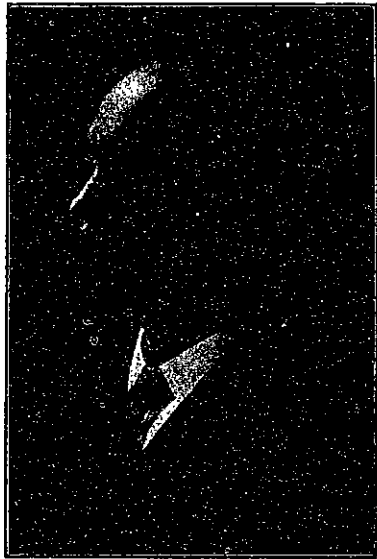
November 20—Rev. A. R. Williams of the Maverick Church, East Boston. The subject will be "Some Glimpses of the Underworld."

MECHANICAL SMOKER A GREAT SUCCESS

Mr. Cory, Prof. Miller and Prof. Haven Main Speakers of Evening—Large Attendance

Last evening the Mechanical Engineering Society held a very successful smoker and general good time in the Union. There was an exceptionally large attendance, numbering about two hundred, men and the speakers of the evening were enthusiastically received.

President H. W. Treat of the Society first introduced Mr. T. R. Cory, one of the members of the firm of Wm. Filene Sons Co., and the subject of his talk was "Shop." Mr. Cory dealt in great detail with the problems arising in his company, and the methods which had been adopted



PROF. EDWARD MILLER

to overcome them. The Filene Store has developed during their business career an ever-increasing force of employees, and at the present time their number is as great as thirty-five hundred people. With such a large body as this, there is a necessity of co-operation both between the partners of the firm and the employees. In order that both bodies shall cooperate it is essential that logical thinking be done by both parties.

At Filene's there is a Co-operative Society among the employees, and practically everything is settled by arbitration. The firm is not represented on the board of arbitration, and 55 per cent of the cases are decided against the company. Eleven questions relating to increases in salary and promotion are handled by the board without interference from the company. The employees have a bank in the store, and at the present time are (Continued on page 4.)

CUTS IN GLEE CLUB

Leader Stallman of the Glee Club announced at the close of the rehearsal today that at the next rehearsal on Tuesday at 5, the men will be tried out in quartets. A cut must be made, and it is the purpose of these quartets to see who will be dropped.

CHEMISTS HEAR OF NEW PHOTOGRAPHY

Prof. Norris of Simmons Tells of Latest Discovery—Dinsmore Elected to Committee

Last night one hundred and ten chemists and chemists-to-be met in the Union to get acquainted, and to listen to Prof. Norris of Simmons talk on "My Hobby." Many familiar faces from the instructing staff were there to enjoy with the Chemical Society members the treat of hearing Prof. Norris.

After the dinner had been disposed of, and the men were in a happy mood, President Dickson announced the results of the special election for senior member of the Executive Committee. R. P. Dinsmore, 1914, Course X., was elected. Dickson also called the attention of the men to the tags which had been provided to help the men get acquainted. Then he introduced Prof. Norris as an old Tech man and former member of the Chemistry Faculty.

Prof. Norris said that he had gone to Simmons because of the opportunity it offered him to become more useful. He defied Simmons as a "female" Tech, and made it seem very attractive to the men.

He then began to speak of his hobby, photography, and described some of his experiences with it while in Germany several years ago. While there he encountered the usual difficulty of getting both dark foreground and light background in the same print in equal detail. He said that during the last summer he had found the way to overcome this difficulty while he was working on an entirely different phase of photography.

He works with a solution made by mixing his hypo and developing baths, using double normal keto-hydroquinone developer solution to which has been added enough hypo to make the strength of the latter in the solution about three per cent. In this solution development and fixing take place simultaneously and slowly, the silver being so finely colloidal that it is yellow by reflected light, rather than black. The success of (Continued on page 2.)

SOPHS DEFEAT LATIN

Practice Games Result In Two Victories For 1916.

After easily defeating the second team of the Boston Latin High school in a practice game yesterday afternoon, the Sophomore Football Team of the Institute inflicted a defeat on the first team as well. The Latin High boys were no match for the 1916 players, the latter winning by a score of 35 to 14.

The games, which took place on the grounds of the National League Baseball Club, began at 5 o'clock. The line-up for the Sophomores was as follows: left end, Duff; left tackle, Hill; left guard, Burford; center, Hunt; right guard, Lovejoy; right tackle, Clarkson; right end, Stowell; quarter, Roper; halves, Dewson and Miller; full back, Jewett. No game is scheduled for the Sophomores for today.

FALL HANDICAP MEET TODAY AT THREE

Running Events Well Contested—But Few Entries In The Field.

The Annual Fall Handicap Meet will be held this afternoon at the Field promptly at three o'clock. Although the entry books were closed Thursday night, it is not too late to register; and entries will be received at the Field up to the running of the event. Up to the present, the great weakness seems to be in the weight events, in which men of no special ability have been forced to enter to fill in. Coach Kanaly hopes that others interested in the weight events will come out and compete.

In the 100 yards, Wilson is scratch man, and Loomis has a slight handicap; but they will have their hands full in finishing ahead of the other men favored with bigger handicaps. O'Hara and Wilson are scratch men in the 220, and should furnish an interesting contest even though they may not win the event. In the 440, Guething is scratch, and he will have some trouble in overhauling Reed and Peaslee, who have ten and twelve yards respectively. T. H. Guething and K. Dean will afford the spectators a close finish, and it would not be surprising to see the younger man, favored with his handicap, win his event.

In the mile a most interesting race will be run off. C. Guething, Benson and Brown are all on scratch. All these men have been showing up well in their cross-country work, and are in good form. A fast mile may be expected.

Cook and Benson are on scratch in the two mile, and as these men have been finishing neck and neck throughout the season, it is impossible to pick the winner. Capt. Nye has a hundred yards handicap, and it is probable that he also will be in the race at the finish.

In the high hurdles there are but two entries: Huff and Foster; while in the 220 low hurdles there are five. This lack of interest extends to the field events, and it is for this reason that Coach Kanaly has extended the entry time in the hope that others may come out.

In case of very bad weather the meet may be called off, but the cross-country men will practice, rain or shine.

The list of handicaps follows:—
100 yards dash—Wilson, scratch; Loomis, 2 1-2 yards; Reed, 7 1-2 yards; Friend, 5 yards; Day, 6 yards; Sullivan, 7 yards; Erb, 7 yards; K. Dean, 8 yards; Lawrason, 8 yards; Doom, 8 yards; Kennedy, 9 yards; Lawrence, (Continued on page 3.)

WEATHER

For Boston and vicinity: Rain Saturday; increasing easterly winds.

CALENDAR

Saturday, Oct. 25, 1913
2.30—Fall Handicap Meet—Field.
8.00—Chess Tournament with Harvard—19 Gray, Harvard.

THE TECH

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SATURDAY, OCTOBER 25, 1913.

This afternoon comes the first athletic event in the year which is of interest to the Institute as a whole. This is an important event in itself in that it represents an attempt to equalize by handicaps the partialities of nature and give a fair show to everybody who is willing to try.

Its main interest to us, however, is the light which it throws on the attitude which the Institute of this year, and particularly the incoming class, take toward athletics. In order to be a success, Technology athletics need something besides men to come out and take part; they need financial as well as moral support from the student body, specifically in the form of gate receipts. This support has in the past been accorded in varying degrees, and nothing pleases the supporters of Institute athletics more than to see an incoming class give this evidence of the true Technology spirit.

The Freshmen have been showing in other ways that they are nowise behindhand in Institute affairs. They have outdone their predecessors in coming out and working for the Field Day events, and are giving every promise in other ways of becoming a credit to Technology. We hope in this respect also they will not prove deficient, and that the upper classes will set them a good example.

It is deplorable that some students have to be reminded periodically of the respect we owe to our Alma Mater, lest they show their lack of it in the little things that are so much more significant than larger ones. We refer to the growing habit of wearing hats into and out of Huntington Hall and other lecture and recitation rooms. It is very little more trouble to remove them on entering, and will render us much more self-respecting and less liable to misconception from without.

The Penn State game at Cambridge Saturday is said to promise the first real fight of the season for the Harvard team.

ENGINEERING AND SCIENTIFIC NOTES

Among the new devices on exhibition at the current electrical show in New York, one of the most revolutionary in character is a new form of electric lamp which has not yet been entirely perfected. The filament of this lamp is tungsten, but instead of being evacuated, the bulb is filled with nitrogen. The electrical world was startled when the present tungsten lamp was introduced, reducing the cost of electric lighting to about one third that of the carbon lamp, and now this new lamp bids fair to outdo the present tungsten by again halving the cost. The Edison Company plans to bring out these new lamps in about six months, and they calculate that the resulting increase in heating and lighting consumption will offset the decrease of consumption on the present installations. The light from this new lamp has a closer approximation to daylight than the vacuum lamp and is well suited for outdoor illumination. The bulbs at the exhibition are large affairs and are rated at 5,000 candle power.

Another form of lamp is exhibited by a French scientist, M. Claude. It produces the nearest approach to artificial daylight yet attained, and so perfect is the approximation that the lights of the Great White Way seem very yellow by comparison. The lamp is built of five concentrics, sixteen feet long, which are evacuated and operated at a potential of 6,000 volts. The three inner tubes are of the familiar Hewitt type of photograph studios, etc., which emit light strong in green rays. The two outer tubes are the new Claude tubes, which are made in such a way that they glow at an intense orange under the influence of the electric current. The proportion of these colors is such that a white light is produced by chromatic addition, which has a startling resemblance to daylight.

Quicksilver is used mainly, according to the United States Geological Survey, in the manufacture of fulminate for explosive caps, of drugs, of electric lighting and scientific apparatus, and in the recovery of the precious metals, especially of gold, by amalgamation. An increasing demand has been reported in manufactures of electric appliances. An interesting and increasing use in Scotland is the floating of the lights of lighthouses upon a body of quicksilver. The metal is not consumed, of course, and the loss in use is insignificant. Concerning this Consul Fleming writes as follows:

"Edinburg is for resilvering mirrors and for 'floating' the revolving lights in lighthouses. The commissioners of northern lighthouses, Edinburg, have in their charge 90 lighthouses on the coast of Scotland. Up to the year 1900 the revolving lights were borne on rollers. The 'float' system has been gradually introduced, however, and is now in operation at 30 coast stations and will be used at all others. The lighting machinery rests on a pontoon which runs on quicksilver in a groove. The quantity of mercury required for this purpose in a lighthouse is from 7 to 8 flasks of 75 pounds each. As the waste is trifling, the total present demand for this purpose is small."

Tech's thanks to the whole "Smith" family.

CHEMICAL SOCIETY

(Continued from page 1.)

this particular mixture is due to the fact that the temperature co-efficients of both the rate of fixing and of developing are so nearly the same that the process is workable between the freezing point and 80 degrees Fahrenheit, or above this if an acid fixing bath is used subsequently.

Professor Norris has obtained some interesting results with his process. He has eliminated "over-exposure." Plates which are over-exposed 300 times come out in condition to make good prints, and a plate exposed for 20 minutes at noon in full sunlight at the side of his house still showed detail when developed. Plates 25 years old gave perfect negatives without fog. If one is in doubt as to the length of time to expose, he says to give it from two to twenty times as much as you think necessary, and then fix and develop.

The faults of his process are the fact that under-exposures give no better results than with the ordinary development (although all chances of fogging are eliminated), and the natural doubt as to the permanence of the negatives. He finished by outlining several of the possibilities of the method, such as making sepia prints directly upon gaslight paper.

After the fellows had thanked Prof. Norris and had adjourned for an informal good time by giving a regular M. I. T., Prof. Norris continued to initiate enthusiasts into the simplicities of the process, and to show them actual negatives.

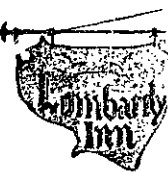
Secret practice for the Sophomore Football Team is "something of an innovation.

The relative strength of the Freshman and Sophomore Relay Teams has assumed a definite proportion; unfortunately Coach Kanaly is the only one who has the "dope," and he refuses to be separated from it.

The 1916 Tug-of-War Team still needs more men. With the small number out the men are unable to get the important practice of pulling with a full team against a full team.

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Students desiring to obtain their physical laboratory note-books are requested to call for them at once in Room 16, Walker.

All books remaining unclaimed after November 1st will be confiscated.
H. M. Goodwin.

ALTERATIONS OF SECOND- HAND UNIFORMS

A representative of the uniform contractors will be at the Armory during the Wednesday drill periods, Oct. 22 and Oct. 29, to take charge of all parts of uniforms requiring alteration as to fit or ornamentation. Students are at liberty to have the work done anywhere providing it is done properly but arrangement has been made to have this work done by the contractor at rates which are reasonable and probably cheaper than those charged elsewhere. This work should be attended to at once as when the new uniforms arrive the workmen will have all their time occupied by work on them and excuses will not be accepted for work delayed through carelessness. The address of the tailor employed for this work is James Greatorex, No. 27 Causeway St. You can go there, but will save trouble by turning in the articles at the Armory not later than October 29th, and better still on the 22d.

EDWIN T. COLE,
Major, U. S. Army.

TECH CHESS CLUB PLAYS HARVARD CLUB TONIGHT

Match Will Be First Of Series Of
Tournaments Between
The Two Clubs

This evening the first of a series of tournaments between the Chess Clubs of the Institute and Harvard College will be held at Harvard at 8 o'clock in 19 Gray. Last year the tournaments of which the Technology Club won two out of three, excited much interest, and the tournaments of this year are expected to be even more interesting. The team which will play Harvard will be composed of Jones, Woodbridge, Dunning, Blank, and several to be picked from the following list of men: G. A. Saladrigas, S. Lewiton, H. M. Baxter, R. B. Stringfield, R. F. Goudy, Cowdry, A. F. Petts, and E. Weaver. These men are requested to report at 12.00 o'clock to be tried out to fill the vacancies on the team. Those who are to play on the team against Harvard are to meet in the Union at 7.15 and go in a body to Cambridge.

All entrance fees for the tournament now in progress among the members of the Club must be left at the Cage for Woodbridge before Wednesday, Oct. 29th. The fee is fifteen cents.

FALL HANDICAP

(Continued from page 1.)

9 yards; Axtmayer, 9 yards; Guilhot, 10 yards; Child, 11 yards; Lapham, 11 yards; Fletcher, 13 yards.

220 yard dash—Wilson, scratch; O'Hara, scratch; Loomis, 4 yards; Reed, 6 yards; Sullivan, 11 yards; Friend, 11 yards; Erb, 13 yards; Lawrason, 14 yards; Kennedy, 11 yards; Axtmayer, 17 yards; K. Dean, 18 yards; Lawrence, 20 yards; Lapham, 22 yards; Guilhot, 22 yards; Roberts, 25 yards; Childs, 25 yards.

440 yards—Guething, scratch; Reed, 10 yards; Peaslee, 12 yards; C. Guething, 12 yards; Loomis, 18 yards; Huff, 18 yards; K. Dean, 20 yards; Baker, 22 yards; Sullivan, 22 yards; Williams, 25 yards; Kennedy, 25 yards; Lieber, 26 yards; Nye, 28 yards; C. Dean, 28 yards; Lawrence, 28 yards; Gagnon, 32 yards; Roberts, 35 yards.

880 yards—Guething, scratch; K. Dean, 25 yards; Nye, 30 yards; Kennedy, 35 yards; Pollard, 40 yards; C. Dean, 45 yards; Best, 50 yards; Lapham, 50 yards; Goldstein, 55 yards.

One mile—Benson, scratch; C. Guething, scratch; Brown, scratch; Wilkins, 45 yards; Hastie, 75 yards; Pollard, 80 yards; Brock, 125 yards; Gray, 125 yards; Carrier, 125 yards; Roberts, 130 yards; Barker, 140 yards; Saywood, 140 yards.

Two mile—Cook, scratch; Benson, scratch; Wilkins, 85 yards; Nye, 100 yards; Donnelly, 125 yards; Best, 140 yards; Hastie, 160 yards; Brock, 175 yards; Parker, 200 yards.

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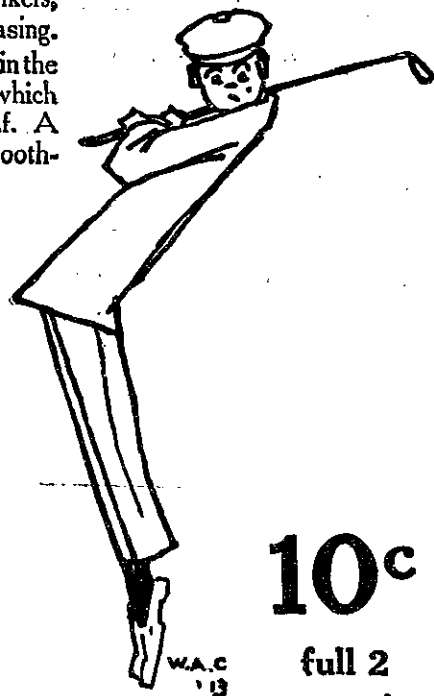
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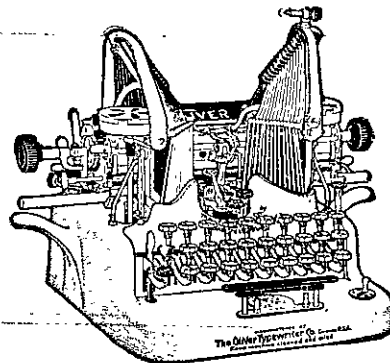
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OUR ADVERTISERS

MECH. ENG. SOCIETY

(Continued from page 1.)

ent time the total of their combined savings amounts to about \$65,000. The social arrangements of the workers are carried out in great detail, and there is something going on among the different clubs in the building every evening.

When Mr. Cory was introduced to the fellows he was made known as "Dad" Cory, and at the conclusion of his talk several questions were put to the speaker, and the first one was, "Why are you known as 'Dad' Cory?" Some of the other questions were: "How is overtime taken care of?" "How is the Christmas trade taken care of?" "Does theft in the store bother the firm much?" etc.

Professor Haven was the second speaker of the evening, and he congratulated the men on their numbers. "Every man," said the Professor, "must have an ideal of the engineer he will make when he graduates." The particular qualities of the graduates leaving the Institute has always impressed Professor Haven as being three important ones, and they are, first, entire honesty; second, preparedness; and third, courage. Every man who has these qualities has the attributes of a good engineer, and the most important of these is that of honesty. As a final shot the Professor read a political parody on "The Goblins Will Git Ye."

The next speaker was Professor Miller, who spoke on the advantages of the Mechanical Engineering Society both at present and in the future. In opening he told how Professor Thurston at Cornell started a small society for Engineers. Although this society was rather small at the outset, and met with ill favor, soon it became larger and the students at Cornell found that to be in good standing with their fellow engineers, they must become members. Out of this society grew the present Mechanical Engineering Society of the United States.

He then went on to say how difficult it is for some men to become members of this society until they accomplish some achievement of note in the engineering world. He spoke of the Student Engineering Society at Technology. This led, upon graduation, to junior membership, and finally, when they had become more advanced in their profession, to senior membership.

The senior membership enables one to get the valuable monthly periodicals of the Society. These periodicals represent years of study and research and enable one to successfully continue in the field. Then, again, one obtains the advantages of acquaintance with the members of the society, which often leads to the securing of good positions. These members act, then, as advisers and helpers in his work. The membership in the society opens to one all factories and establishments for personal inspection. Professor Miller concluded by saying a few words about the monthly meetings of the Society, and he expressed great satisfaction because of the fact that Tech men took an active part in the discussions carried on at these meetings.

COSMOPOLITAN CLUB

Officers and members are urged to be present at the regular business meeting of the Cosmopolitan Club, which will be held on Wednesday, October 29th, at 5 o'clock, in the Union, Room A.

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 Advanced Class Saturday 8 P. M.
 Assemblies Friday 8.30 P. M.

Private lessons by appointment daily
 Telephone B. B. 6050



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