

# THE TECH

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BOSTON, MASS., WEDNESDAY, NOVEMBER 12, 1913

PRICE TWO CENTS

## ELECTRICALS HEAR TECHNOLOGY ALUMNUS

**H. A. Morse '93 Tells Of Wire Insulation—Trips Discussed.**

Last evening the Electrical Engineering Society held a meeting in the Union. There was a short business meeting at which the subject of the mid-year trip was taken up and itineraries of the Schenectady trip and an alternate trip leaving out that city were given. A provisional list of the men who are going and their preference of the trips is to be made out and the sign up paper is with Miss Payson in 15 Lowell.

After stating that there would be three trips to the Simplex Wire and Cable Company's plant in Cambridge, beginning with today, President Richmond introduced Mr. Morse of the Simplex Company, who gave a very interesting talk on the production of the wire. Mr. Morse began by explaining that the company only insulates the wire, buying the wire bare. The wire is then made up as single wires or cables and insulated. Very often large wires are wanted and if they were only one strand they would be stiff, so several strands are wound together and then treated as one.

Rubber is the chief insulating material but sulphur is a necessary constituent of the rubber and this is detrimental to the copper. So, to counteract this difficulty, the wire is coated with tin, which is put on by immersion in a bath of melted tin. The layer of tin is very thin but it is a perfect insulator. The rubber used, he said, comes from Brazil and the Far East and is in the form of balls of all sizes. These are put through machines which tear the rubber out into long sheets and take out the dark and foreign materials. It is then thoroughly dried and used with other materials to make the insulating materials, which never contain more than forty per cent of rubber and often practically none. This is worked over till the whole is a very smooth sheet, when it is ready to use. Mr. Morse spoke of two methods of putting the rubber on the wire, one of which, wrapping the rubber on, is not so generally used. The other is putting the rubber into a press and forcing it through a die with the wire (Continued on page 3.)

## INSTITUTE COMMITTEE

**Appointments To Be Ratified And Constitutions Discussed**

A regular meeting of the Institute Committee will be held in 8 Engineering C tomorrow at 4.15 P. M.

The Executive Committee has appointed men to serve on the Point System, Bulletin Board and Union Committee, and these appointments will be submitted to the Institute Committee for ratification.

Plans for disposing of the copies of Technique 1910, which are now in the possession of the Institute Committee will also be discussed. The question of having a uniform constitution for all the classes will be taken under consideration, and it is probable that definite action will be taken.

## TALK TO MECHANICAL ENGINEERING SOCIETY

**Men From Courses II and X Invited—Insulation Of Cold Storage Plants Subject.**

This afternoon at four Mr. C. B. Rowley '12 will address a meeting of the Mechanical Engineering Society to be held in Room 11, Engineering B.

Mr. Rowley, who at present is connected with the H. W. Johns-Manville Company, will speak on the subject of the "Insulation of Cold Storage Plants." The lecture will be illustrated by lantern slides showing typical applications of the uses of cork for this purpose. He will give the history of cork boarding in connection with cold storage insulation. All men from Courses II and X as well as members of the Society are particularly invited.

## TALK ON TIRES

**Chemical Society To Hear Tech Graduate Friday Evening.**

The Chemical Society has secured for its next speaker Mr. W. W. Duncan, M. I. T. '04, of Course V. Mr. Duncan is head of the Hood Rubber Company, and will talk on the subject of "Tires." It is expected that he will deal more particularly with the chemical problems encountered in the manufacture of tires. The officers have selected Mr. Duncan on account of his reputation of being a good speaker. They say that an interesting lecture is to be expected.

The talk is to be given in the Union at 7.30 P. M. next Friday, November 14. Refreshments will be served, which will be free to the members of the society. Non-members will be charged 25 cents.

## MARINE INSURANCE

A lecture will be given on Marine Insurance by Mr. William H. Lincoln at 4 o'clock, Tuesday, November 18th, in Room 32, Engineering C, to students in Naval Architecture; invitation to this lecture is extended to others who may be interested.

Mr. Lincoln, who is a member of the Corporation and of the visiting committee of the Department of Naval Architecture and Marine Engineering, was for many years the agent for the Leyland Line of steamships, and was formerly President of the Boston Chamber of Commerce.

## 1916 NOMINATIONS

Sophomore Nominations are now open and the last opportunity to hand papers in will be Saturday, November 15, at 4 o'clock P. M. Papers are to be handed in at the Cage, addressed to the Election Committee of the Sophomore Class. The officers to be elected are: President, Vice-President, Secretary, Treasurer, two members of the Institute Committee, two members of the M. I. T. A. A., and two members of the Executive Committee.

This weather makes us hustle.

## CIVILS TO VISIT COMMONWEALTH PIER

**Engineer For Port Directors To Speak Thursday Afternoon—Trip Friday.**

The second regular meeting of the Civil Engineering Society will be held in 11 Engineering B. Thursday, November 13, at 4 P. M. Mr. John A. Ferguson '97, assistant engineer for the Directors of the Port of Boston, will give a talk on the construction of the new Commonwealth Pier. This is intended as a sort of introduction to a trip which the Society will take to the pier on Friday. The details of this trip will be announced at the meeting. At this time the shingles and pins will be ready for distribution. An arrangement has been made whereby all who desire pins may obtain them at the meeting, whether they have previously ordered them or not.

The Commonwealth Pier is a noteworthy piece of engineering work, both as to size and outlay of money. It is 1200 feet long and 400 feet wide. The actual core of the pier is 300 feet wide and 1150 feet long. This part is composed of a sill with solid granite retaining walls having rip-rapped slopes. Outside of the core is a concrete platform 50 feet wide, extending all around the pier, resting on oak piles with concrete beams and floor slabs. The pier carries six railroad tracks, one on each platform and two pairs on the middle structure. There are three parts to the superstructure, a central passenger shed and two freight sheds. The head house, a four-story structure, is the principle architectural feature of the work.

This pier is built on and around an older one which is fifteen years old. The curtain wall of the new pier is built around the retaining wall of the older one. The new structure, when completed, will cost about \$3,000,000.

## TENNIS TOURNAMENT

**Semi-Finals Commence Today At Tech Field.**

The third round of the M. I. T. Tennis Tournament was completed yesterday at the Tech Field. Today the semi-finals will commence. The scores of yesterday's games were as follows: Carr '16 defeated Blakely '14, 7-5, 6-4; Warren '15 defeated Curtis '16 by default; H. R. Stewart '16 defeated Fay '14, 6-1, 6-4; Polley defeated Makepiece, 8-6, 6-2. This afternoon Warren vs. Carr and Stewart vs. Polley are the matches scheduled. This will determine the players of the finals.

## SOCCER PRACTICE

Coach Kanaly will be out at the Field today to look over the soccer practice. The Field will be marked out as the game requires and definite plans will be discussed. Several Freshmen have substituted soccer for gym, and those interested hope more will do so, that the sport may have good, strong support.

The nucleus of a Spanish American club will meet tonight.

## MUSICAL CLUBS GIVE CONCERT

**First Performance Of Year Well Received—Dance Held Afterward.**

The Combined Musical Clubs held their first concert of the year at Franklin Square House last evening. Both the vocal and instrumental numbers were well received, especially the Stein Song, given by the Glee Club as the final selection. The encores for the Mandolin Club were given by a quintet consisting of E. C. Taylor, K. T. King, G. R. Duryea, R. H. Dickson, and R. Moorhouse. Encores were also given by a selected quintet of the Banjo Club.

The program was as follows:—

The Sword of Ferrara Bullard '87  
Glee Club.  
The Stars and Stripes Forever Sousa  
Banjo Club.  
Solo Selected  
Clarence W. Howlett '15.  
Peter Piper S. R. Henry  
Mandolin Club.  
Mrs. Cozy's Boarding House  
J. C. Macy  
Glee Club.  
The Darkies' Dream G. L. Lansing  
Banjo Club  
For You Alone Geehl  
Vernon F. Tallman.  
Song of the Boatmen on the Volga  
Russian Folk Song  
Mandolin Club.  
Stein Song Bullard '87  
Glee Club.

## WEATHER

For Boston and vicinity: Fair today, with westerly winds.

## CALENDAR

Wednesday, November 12, 1913.

1.30—Economics Club—8 Eng. C.  
2.00—E. E. Society Trip—Simplex Wire Cable Co., Cambridge—Meet in Library in Lowell.  
4.00—M. E. Society—11 Eng. C.  
4.00—1917 Basketball—Gym.  
4.00—Cross-Country Practice—Field.  
4.00—Soccer Practice—Field.  
4.00—Du Pont Cup Competition—Field.  
5.00—Sale of Kommers Dinner Tickets Closes—Cage.  
5.00—Tech Show Orchestra Rehearsal—Union.  
8.00—Spanish-American Students Meeting—Hotel Westminster.  
8.00—Architectural Engineering Society—42 Pierce.

Thursday, November 13, 1913.

2.00—E. E. Society Trip—Same as Wednesday.  
4.00—C. E. Society—11 Eng. B.  
4.00—Du Pont Cup Competition—Field.

There is still much room on THE TECH for energetic and reliable men. Drop in at the office and see how you like it.

The N. E. I. C. A. A. Cross-Country Run is at Hanover this Saturday

# THE TECH

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WEDNESDAY, NOV. 12, 1913.

## In Charge of This Issue:

Editors—L. E. Best '15, Ralph Millis '16.  
Assistant—H. E. Lobdell.

We wish to call attention to the high quality of the talks the T. C. A. are giving this year. The attendance has, indeed, been excellent, but it includes practically the same men week after week, showing that a large proportion of the undergraduates are regularly missing this opportunity.

This Thursday's talk is by a well-known speaker and on a subject which should interest any man who cares to learn of the problems confronting his country. We are safe in saying that any man not familiar with these talks will be well repaid for cutting his lunch short tomorrow and joining the crowd in the Union. cares to subject which should interest any man who cares to learn of the problems confronting his country. We are safe in saying that any man not familiar with these talks will be well repaid for cutting his lunch short tomorrow and joining the crowd in the Union.

Once or twice during the present term we have had occasion to remark the tendency which exists at Tech to let states of affairs rest as they always have been, even when there is no reason stronger than the force of custom why they should so continue. We wonder whether this is not the case with the day on which Field Day is held.

Would it not be better if, in the future, the date of Field Day were set for the first Saturday instead of the first Friday of November? The present arrangement is admittedly awkward, for, with the games in the afternoon and Tech Night in the even-

## KOMMERS DINNER TOMORROW NIGHT

Good List Of Speakers—Tickets Must Be Bought By 5 P. M. Today.

Tomorrow evening the Annual Kommers Dinner will be given in the Union. The Tech Show management has arranged for many interesting speakers, and a large number is expected. The tickets will be on sale till 5 o'clock this afternoon, and those who desire to go must have their tickets by then as Steward Colton must know just how many to expect. Tickets will be sold in the Union this noon.

The principal speakers will be Dean Burton and Mr. Litchfield, C. P. Fiske, last year's stage manager, will have something to say to those present, as will R. Weeks, last year's general manager. F. L. Surlis, who is to conduct the orchestra this year, will talk about the orchestra. The business end will be discussed by Roger Lord, business manager. This year's stage manager, D. M. Hughes, will also speak.

Manager Lord wants all business candidates to meet him in the Show Office at 4.30 this afternoon to tell how many tickets have been sold.

## MEASURED FOR SWEATERS

Junior Class To Have Baseball Team Next Spring.

Yesterday at one o'clock in the Union the members of the 1915 Baseball Team were measured for the sweaters which were voted them at the class meeting last Monday. The list of men to whom the sweaters have been awarded has already appeared.

Manager Thomas when interviewed yesterday stated that the Junior class will be represented on the diamond again this year. A good schedule will be arranged, and he hopes to have an even better team than that which did so well last spring.

## ARCHITECTURAL TALK

The Architectural Engineering Society will hold a meeting at 8 tonight in Room 42 Pierce. The speaker of the evening will be Mr. C. H. Blackall, who will talk on the subject of "The Business of Architecture and Its Relation to Architectural Engineering." A social meeting will follow the speaking.

The lectures at the Boston Public Library on Sunday afternoons and Thursday evenings are well worth hearing.

ing, those who enjoy the full benefit of the occasion cannot prepare Saturday's work. If Field Day were on Saturday, however, things would be much more convenient. The Faculty could suspend exercises on Saturday morning instead of on Friday afternoon, which would give us a whole day unmarred by work without involving a greater loss of time Friday, so that many of our friends would enjoy the games who are now prevented from so doing by business or other cares. Another important advantage of a change in date would be the rest which it would enable the teams to take both before and after the ordeal.

We know that there are disadvantages as well as advantages in having Field Day come on Saturday, but we submit our views in the belief that they will appeal to the majority of Tech men.

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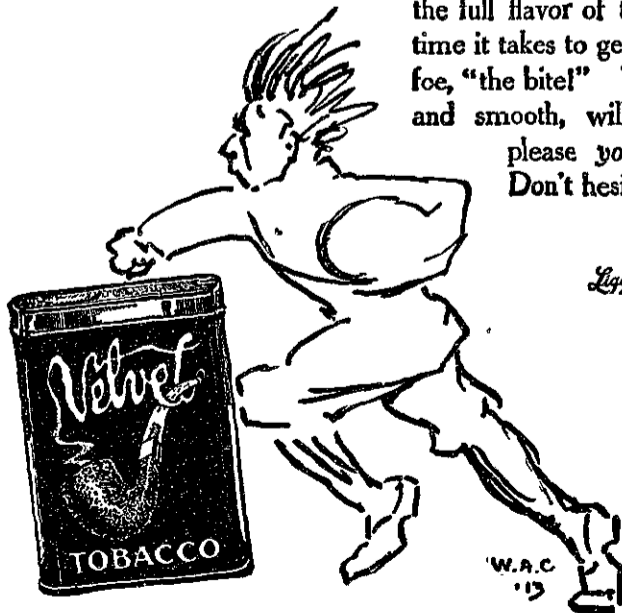
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### TIME EXTENDED ON DU PONT COMPETITION

Lower Classmen Have Another  
Week To Try For Yearly  
Prize.

Owing to a general misunderstanding as to the closing of the Du Pont Competition it has been decided to extend the time somewhat. Those desiring to compete may do so today and tomorrow, and from Monday to Thursday of next week. The competition will close finally on Thursday, November 20.

To inform new men at Tech, the Du Pont Competition will be explained. The prize cup was given by Coleman Du Pont. The competition is divided into two parts, the Fall and Spring Competitions. The scoring is done in three divisions. Each candidate must try out in a run, a jump, and a weight event. The maximum score in each event is a hundred, rated on the basis of a good performance. Thus the maximum score is three hundred. The idea is to develop all-round athletes and to stimulate the interests in track athletics. The competition is open only to Freshmen and Sophomores.

### HARE AND HOUNDS CLUB TO RUN AT WAKEFIELD

Men To Go Over Handicap Cross-Country Course This Saturday.

This Saturday the Hare and Hounds Club will go to Wakefield. Besides being a good practice run, this trip is the only chance new men will have of learning the course over which the Annual Handicap Cross-Country is held.

The course at Wakefield, which starts at the Y. M. C. A., ends at the green after a circuit of about six miles. The course is a combination of road, wood and field work, which makes it very interesting. The pace will not be fast as the Cross-Country Team will not be here and but one slow squad will be run.

The men will leave by the 2.14 train from North Station. The return trip fare will be 25 cents.

### ELECTRICAL SMOKER

(Continued from page 1.)  
in the center. The die keeps the rubber the correct size. The wire is led into pans or onto rolls after being covered with chalk to prevent the strands sticking together and then put into vulcanizing furnaces, where the rubber assumes the elastic form with which we are familiar.

After this Mr. Morse turned his attention to the making of lead-covered cables. Here the process, he explained, is similar to the rubber coating one. First the molten lead is poured into a press and cooten, after which it is forced out as the rubber was with the lead wire in the center, the size being determined as before by the die.

Cotton-covered wire is produced by a braiding machine, which consists of many spools working in and out with the wire in the center as before. The large cables, which are made up of many strands, are similar to the machines in a rope walk, the frame holding the spindles turning and winding the wire, although the wire itself is not twisted.

The next meeting will probably be held on Dec. 16, when Mr. L. L. Elden, the head of the Electrical Engineering Department of the Edison Power Co. will speak on the "Distribution Systems of the Company."

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**SPANISH AMERICAN  
STUDENTS DINNER**

First Meeting Of Its Kind At  
M. I. T.—Mr. R. Sturgis  
To Speak.

The Spanish-American Students of the Institute are to hold a meeting and dinner at 8 o'clock this evening at the Hotel Westminster. The speakers will be Robert Sturgis, President of the Spanish Club of Boston, and Dean Burton, of the Institute.

The committee has found it impossible to get the addresses of all the Spanish-American students at Tech, so it extends a general invitation to all interested, whether they have received written notices or not.

A very enjoyable time is promised by those in charge of the dinner, and they are anxious to have a large attendance, as this meeting is the first of its kind ever held at the Institute.

The dinner is to be informal. Tickets will be 75 cents each.

**SCIENTIFIC AND  
ENGINEERING NOTES**

Electric power plant engineers realize that during the winter months they must have enough units in operation to meet the demands of a heavy peak load while during the summer, when the load is lower, the excess units are an expensive idleness. To prevent this Chichester Electric Light and Power Company have installed an ice plant to advantageously utilize the excess power during the summer. The ammonia compressor, of the enclosed type, are especially designed to operate with as little attention as possible, and the pipes of the open-air condensers are electrically welded to prevent all possible leakage of the ammonia.

The ice tanks are provided with the Haslam system of air agitation, which keeps the water in the ice-cans continually agitated until the blocks are frozen solid. The air used is compressed and cooled to a low temperature in a special plant, and the ice produced is clear and free from impurities. The ice-cans are carried in groups on strong wrought-iron frames, and the compressed air supply is conveyed to each group by air pipes and nozzles to the cans. Connection is made to the air main by a rubber hose and union, and after disconnection of this union the group of cans are lifted by an overhead traveler, dropped into the relief tank, and emptied on a can tip, from which the ice passes down a chute either to the store or to the loading platform as required. The store, which is insulated with cork, has a capacity of about 6000 cubic feet, and is divided into three chambers, one of which is used for ice and two for general cold storage purposes. The plant has an output of 4 1-2 tons in 24 hours.

The pension fund concert next Sunday promises to surpass all concerts thus far this season.

The Freshman Class is showing proper spirit in substituting various forms of athletics for Gym.

Are you going to hear the talk on Immigration at the Union tomorrow noon?

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