

# THE TECH

VOL. XXXIII. NO. 110.

BOSTON, MASS., THURSDAY, JANUARY 1, 1914.

PRICE TWO CENTS

## HON. W. C. FORBES NEW MEMBER OF CORPORATION

**A Man Of Great Executive Experience Who Understands Need For Technically Trained Men.**

By the election of the Hon. W. Cameron Forbes to life membership in the Corporation of the Massachusetts Institute of Technology, which was done at the recent meeting of that body, the name of the family is again connected with the school in which it has always had so much interest. John M. Forbes, who was an earnest friend of Professor William Barton Rogers and always a benefactor to Technology found place among the early members of the Corporation, and for nearly thirty years, from 1866 till 1892 was a member of the finance committee, which in those early days was no sinecure. R. Bennett Forbes, who is represented in the letters of Professor Rogers as going in his own ships to La Plata and elsewhere, was a speaker at the first meeting of the Institute as the Society of Arts, on which occasion his paper considered sub-aqueous gun firing. W. H. Forbes was made a member of the Corporation in October, 1893, remaining till his death four years later. Since that time the name has been absent from the list, but the members of the family have cared for important Institute matters by large and timely gifts. It is of interest here that one of the first pieces of property in the possession of the Institute was from a Forbes.

The interests that the new member of the Corporation will have will be in line with his great executive experience. Technology has been fortunate in associating with itself men of largeness of view and of experience, Theodore N. Vail, one of the last previous acquisitions, being a case to the point. Governor Forbes further understands the needs of just those regions of the earth to which Technology is sending out its influence. He is familiar with the outlying portions of the country's possessions, and knows how necessary are technically trained men, and furthermore the kind of training that will be most beneficial.

Governor Forbes will make his debut before the Alumni of Technology

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## SOPHOMORE DINNER

**No Tickets Can Be Obtained After 4 O'clock Today.**

The Sophomore dinner committee wishes to inform the class that there will be no tickets sold after 4 P. M. today, owing to the fact that the caterer demands notice of the number who will attend at that time so as to make provision for the preparing of the dinner.

## FACULTY NOTICE

The problem books for the Physics Heat Course may be obtained in the basement of the Walker Building.

## MR. G. G. DANA '92 GIVES TALK TO M. E. SOCIETY

**Tells Of Work Of Underwriters' Bureau And Methods Of Reducing Insurance Rates**

Yesterday afternoon the methods of making buildings fireproof were taken up in a very interesting talk given before the Mechanical Engineering Society by Mr. Gorham G. Dana. Mr. Dana graduated from Technology in 1892 from the Civil Engineering course. He is now General Manager of the Underwriters' Bureau of New England. The information he gave was very valuable, as the particular phase of engineering which he took up is not touched upon at the Institute.

There are three large associations dealing with insurance existing in this country: The National Fire Protection Association; the Board of Engineers, which makes tests on structural materials under stress and heat; and the National Board of Underwriters, whose duty it is to inspect buildings for insurance, and to advise engineers as to the proper construction of factories, stores, etc. The up-to-date manufacturer will always show his plans to the underwriters and often for an almost negligible expense reduce his insurance rate as much as ninety per cent.

Mr. Dana said that in this day of concrete structures there was not much to be said about rendering them fireproof, and his whole talk dealt with the rebuilding of old structures. In the city, where buildings are close together, skylights should be made of glass in order to prevent firebrands and sparks from breaking through. All cornices should have partitions or stops every thirty feet and are often covered with tin. It is best to have as little sheathing and plastering as possible, so that the fire may have no inaccessible places in which to do damage. The spaces between walls and ceilings should also be stopped to prevent fire from spreading. Stairways, elevator shafts and light wells should be made of brick to keep the flame from spreading from one floor to another. There are also restrictions on electric wiring and gas piping.

Quite a full discussion of automatic sprinklers was given, as well as the different kinds of alarm service. Both of these are important factors in the reduction of insurance rates. The automatic sprinkler is a device which when heated to a temperature of about 160 degrees Fahrenheit automatically sends out a spray of water at about a hundred pounds pressure. It is best fed from tanks on the roof

(Continued on page 3)

## INSTITUTE COMMITTEE

The regular meeting of the Institute Committee will be held Thursday, January 1st, at 4.15 P. M. in Room 8, Engineering C. In addition to the regular reports of the standing committees the principal business will be the report of the committee investigating the M. I. T. Co-operative Society.

## TECH SHOW CANDIDATES FOR PUBLICITY OFFICE

**Freshmen Competitors For Second Assistant Will Meet This Afternoon**

E. W. Lucas, First Assistant Publicity Manager of Tech Show, will meet Freshmen candidates for the position of Second Assistant in the Show office either at 1.30 or 4 o'clock today. Questions as to the nature of the work will be answered, the duties of the competitors will be described and work assigned to those who wish to compete.

It is hoped that at least twenty will be out as that is the usual number appearing for the competition. This will be the last call, and so it is important that those who intend entering come to one or the other of the meetings named. The competition will not interfere with the mid-year examinations, as no work will be assigned after two weeks from Saturday until the second term.

Those who find trouble in locating the office are requested to inquire at the Cage.

## E. E. SOCIETY TRIP

**Fore River Shipbuilding Plant To Be Seen By Electricals.**

The Electrical Engineering Society will make an excursion to the Fore River Ship Building Corporation's plant at Quincy tomorrow afternoon. Members intending to go will meet at South Station by the gate outside of Track 21 at 2.25. Those who wish to start from Lowell Building should leave at 1.45 if they walk, or take the 2.06 train from Huntington Avenue Station.

Over thirty-five men have signed up to go although only twenty-five can be accommodated, indicating a very popular trip. Another trip will be made for next term for those who are unable to go at this time.

## CHESS CLUB

Friday afternoon at 4 o'clock a meeting of the Executive Committee of the Chess Club will be held in the Union. All members of the committee are requested to be present as the team which is to play against the Alumni on Saturday will be chosen.

## CHEMICAL SOCIETY

Dr. F. J. Moore, professor of Organic Chemistry, will give a lecture before the Chemical Society Friday, January 2, at 7.30 P. M. The subject will be "A Summer Cruise to Iceland and Spitzbergen." The meeting, which is to be the last one of the term, will be held at the Union and all are invited to attend.

## WEATHER

For Boston and vicinity: Colder today, with prevailing northwest winds. Probably snow.

## WESTINGHOUSE HEAD TO ADDRESS BANQUET

**Electrical Engineering Society Will Hold Dinner At Engineers' Club.**

On Tuesday evening, January 6th, at 6.30 P. M., at the Engineers' Club, corner of Commonwealth Avenue and Arlington Street, the Society will hold the annual Mid-Year Dinner. While the price of the tickets is \$1.25, every one will be assured of getting his full value. Mr. B. A. Behrend, who in reality succeeded Mr. Westinghouse as the head of the Westinghouse Electric Manufacturing Co. at Pittsburg, will be present to talk on what chances a Technology graduate has when he goes with that firm. Mr. Behrend has personally placed several graduates in late years, so it is very important that all take this opportunity to meet Mr. Behrend. Mr. C. W. Green will give a talk on the work in the E. E. Laboratory.

It is especially important that every Junior attend this talk in order to get started right next term. Those who have heard a lot about the Laboratory are urged to come and hear the truth. This will also interest the Seniors.

There will be many other big attractions, including an excellent opportunity to see the Engineers' Club. The number of tickets is definitely limited, and all are requested to purchase one not later than Saturday.

## CALENDAR

**Thursday, January 1, 1914.**

1.00-2.00—Sale of 1916 Class Pipes at Union

1.30—Assistant Publicity Manager Competition—Show Office.

4.00—Same.

4.00-6.00—Sale of 1916 Class Pipes at Union

1.30—T. C. A. Talk by Dean Burton—Union

1.40—Meeting of all men on THE TECH—Office.

4.00—Institute Committee Meeting—8 Engineering C.

**Friday, January 2, 1914.**

1.00-2.00—Sale of 1916 Class Pipes at Union

2.25—E. E. Society Trip—South Station, Track 21.

4.00—Meeting of the Chess Club Executive Comm.—Union.

4.00-6.00—Sale of 1916 Class Pipes at Union.

7.30—Chemical Society Smoker—Union.

**Saturday, January 3, 1914.**

1.00-2.00—Sale of 1916 Class Pipes at Union.

1.30—Combined Musical Club Picture—Notman's, 3 Park Street.

8.00—Wrestling: Tech vs. Clapp Memorial Association—East Weymouth.

Worcester Tech intends sending out calendars for the purpose of advertisement. The faculty believe that R. P. I. is obtaining many otherwise Worcester men by her methods of circulating literature.

**No 1916 Dinner Tickets After 4 P. M. Today**

# THE TECH

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

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THURSDAY, JANUARY 1, 1914.

## In Charge of This Issue

E. F. Hewins '16.

Assistants—W. A. Houser '15. G. H. Stebbins '17.

In spite of the superior advantages of our new athletic field, the sale of the old one, endeared by such long associations with Technology life, occasions many a pang of regret among her students. This is a forerunner of the sorrow which will temper our joy in our new surroundings, when the "Tech on Boylston Street" is no more, and Rogers Steps are only a tradition. Technology, however, is independent of such circumstances as time and location; her spirit, instead of losing by the change, will go on with increased vigor under the new conditions, on account of the closer relations her students will have with each other and with her.

Since catchy music is one of the foremost requirements for a good Tech Show, the mediocre result of the preliminary music competition is particularly discouraging. The tunes are the most lasting feature of each Show the duration of their popularity being a measure of its success; such importance surely deserves more than nine competitors.

Although at a technical school a wealth of musical genius is not to be expected, there must still be some available talent. All who can do anything at all in this line should rise to the occasion and help out an activity which means so much to Technology.

Today's communication on the uniform class constitution brings up a



It has been decided to hold this year's I. C. A. A. A. Track and Field Championship at Franklin Field, Philadelphia.

Pictures of prominent hurdlers in action are now on Coach Kanaly's bulletin board in the Gym.

"Spig" Guething is entered in the 600-yard run in National Junior Indoor Champs, to be held in Brooklyn this Saturday night. The record for this event was made last year by Bon-sib of Columbia, who won on 1:16. The breaking of this record is expected this year as three men are reported to have done better: Hirsch of the Irish American, Kelly of the same club, and "Jimmy" Burke of the B. A. A.

Members of the Track Team squad who desire to run in outside meets are reminded that they must be registered with the N. E. A. A. U. They may leave the necessary twenty-five cents with the Assistant Manager, D. B. Webster '16.

The Dartmouth Freshman one-mile relay is said to be very fast. Rumor has it that they expect to lower the record when they go to Pennsylvania.

The present record for the indoor mile four man relay run is 3:25 1-5. Jack Ryder has hopes of turning out a team that will lower the record this year. One of the men who will probably run on this team is Carl Gramm. M. I. T. '09.

Friday evening, January 9, is the date set for the Annual Indoor Inter-class Meet, to be held at the Gym.

The entry list for the C. A. C. games to be held January 24 is now open. The fee is twenty-five cents and spikes are allowed. Entries close on the 16th.

Some men do not seem to realize that even the partial obstruction of the track is a severe handicap to a runner. When the track is being used it is but courtesy for those not running to step inside the pole and give the others entire freedom.

Yesterday's work consisted mostly of starts and a short fast run.

## SALE OF TECH FIELD

Evening before last the town of Brookline voted to appropriate \$95,000 to buy the Technology Field, to be used as a playground and an inclosed field for the athletic activities of the High School. Tech will be allowed the use of the field, however, until the New Technology Field is completed.

point which is well worth consideration. From one point of view, any change tending to decrease the already low percentage of voters is undesirable; on the other hand, results might be improved if elections were controlled by those who take a serious interest in them, and who know enough about the candidates to make a prompt choice.

On the whole, however, it seems that one day is too short a time to allow, though a week is more than necessary. We recommend this change to the consideration of the Institute Committee.

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### ASSISTANT TRACK MANAGER COMPETITION

Competitors For Assistant Manager  
Of Tech Track Team To  
Meet Monday

The competition for the position of assistant manager of the Institute track team will start Monday, January 5. On that date Manager Thomas will meet candidates in the Track office at the Union at 1.05 and 4.05 P. M. and will outline the nature of the competition.

The competition is open only to members of the Freshman class. The successful competitor will be the assistant manager during his Sophomore year and manager during his Junior year. The manager is entitled to wear a "aTa" and may be awarded a regular "T" at the discretion of the Athletic Association. The manager is the representative of the Athletic Association at meetings of the I. C. A. A. A. A. and of N. E. I. C. A. A., and has charge of all trips made by the track, cross-country and relay teams.

Managership counts nine points under the point system of the Institute Committee, ranking with business business manager of "Technique," of THE TECH and of Tech Show, stage manager of Tech Show and president of the Junior Class.

### COMUNICATION

To the Editor of THE TECH:  
Dear Sir—In the uniform Class Constitution published in your issue of December 29, there is a sentence in Article XI, Section 3, which reads: "The polls shall be opened at 8 A. M. and shall close at 6 P. M."

It is a lamented fact that at the present time only about twenty-five per cent of the members of any class vote, and even that small number is brought about due to a certain amount of electioneering on the part of the friends of candidates. Such was the case when the polls remained open a whole week. With the time limit diminished to one day what per cent of a class will vote? About two? To require everybody to get around to the Union on one set date for an event like a class election, which is considered unimportant by the "dead-heads," is going to cut the number of voters at least in half. All efforts should be made towards increasing the vote in order to make an election as representative possible.

It seems to me that the framers of this Constitution should reconsider this matter and also the members of the classes who have to adopt the Constitution.

This is my interpretation of the Constitution as I read it, but I may be mistaken, and if so I would like to be set right, and would request that the wording be made more clear.

Yours truly,  
Pedes '15.

M. E. TALK

(Continued from page 1)  
of the Building. The National Fire Protection Association has a record of five thousand fires, practically all of which were successfully put out by these sprinklers. If the sprinkler system is fixed so that when it is in any way disturbed it will send in an alarm it serves the double purpose of an alarm and a warning that something is out of order with the system.

At the close of the talk, Mr. Dana showed several slides in which were pictures of fire doors and shutters, and the various automatic devices referred to in the lecture.

The Freshman Class at Williams holds secret sessions.



### The Secret of Good Batting

is similar to the secret of good business—it happens to some and just misses the others.

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**MAT PRACTICE DAILY**

**Wrestling Team Is Getting In Shape For The Brown Meet.**

Stiff practice is being held every afternoon by the wrestling squad as Captain Kelly is now preparing for the big events of the season. With the Brown meet a week from next Saturday and the Harvard meet hardly a month away, the men have plenty of work ahead of them.

Means, the 125-pound varsity man is now unable to practice owing to a fractured bone in his ankle which was done during the meet with Beverly two weeks ago. At present it is not known how long this will keep him off the mat. Treat of the 145-pound class, who has been greatly bothered by an injured rib, is now much improved.

Captain Kelly has a new scheme for strengthening his team and has set a few of his 135-pounders to starving themselves down to 125 pounds. The latter class is weak, especially so since the loss of Means, and the new men are needed.

Tickets for the meet with Brown are going fast, but there is still a chance for those who have not yet obtained theirs. They may be procured from almost any member of the team or at the Cage.

**SOPHOMORE PIPES**

The members of the 1916 Pipe Committee will meet those desirous of purchasing class pipes in the Union from 1 until 2 and from 4 until 6 on Thursday and Friday, and from 1 until 2 on Saturday of this week. The price of the pipe is \$2.50 for every style. No order will be taken without the deposit of \$1.50, the balance to be paid when the pipe is delivered.

**FLASHLIGHTS TAKEN**

Pictures Taken Of The Cadets For The Boston Herald

Wednesday afternoon three flashlight pictures of the cadets were taken at the armory. The first was of one of the battalions, another of a company and a third was a group of the officers. The company posed for their picture with the front rank kneeling and the rear rank standing behind. Both ranks held their guns in the position of aim.

The ten-inch disappearing gun was then elevated and the officers of the two battalions arranged themselves in front for their picture. The flashlights were taken for the Boston Sunday Herald and will be run with an article upon the cadets in the Sunday supplement either next Sunday or the week after.

**CORPORATION MEETING**

(Continued from page 1)  
at the dinner of January 10, where he and Martin Egan are to be honored guests.

Changes in the instructing staff effected by the Corporation since the beginning of the term have been, the appointment of Dr. H. O. Taylor to be Research Associate in the Research Laboratory of Electrical Engineering, and Francis Byron Morton, S. B., M. I. T. '13, to be assistant in Physics, in place of F. I. Hunt, resigned.

**FACULTY NOTICE**

The Political Economy exercises will not be given between December 29th and January 3d, inclusive.

**ALUMNI ASSOCIATION**

**Tech Alumni Elect Officers—Other Business Transacted.**

The election of officers by the Alumni Association of the Massachusetts Institute of Technology has resulted in the following board: President, Jasper Whiting '89, of Boston; Vice-President, Henry J. Horn '88, of New Haven; Secretary and Treasurer, Walter Humphreys '79, of Brookline; Executive Committee: Joseph H. Knight '96, James F. McElwain '97, and Herbert N. Dawes '93, of Boston; and for Representatives-at-large, Franklin B. Richards '84, of Cleveland; Charles W. Eaton '85, of Haverhill; Frank A. Merrill '87, of Boston; George C. Whipple '89, of New York; and Sumner B. Ely '92, of Pittsburg Three amendments to the constitution, which create the class of "sustaining member" and which make the president of the Technology Clubs Associated ex-officio third vice-president of the Association, were carried with few dissenting votes.

One of the important matters of business was the nomination of three men to be term members of the Corporation of the Institute, subject to acceptance by the Corporation. Those men nominated for term members, who are to serve for five years, are: Frederic H. Fay '93, Franklin W. Hobbs '89, and Gerard Swope '95

Cap and Bells of Williams opens a series of five performances of "Niobe" this evening at the Academy of Music, Brooklyn.

The track team seems prosperous, but there is still a decided weakness in the pole vault and the weight events. There are only six men out for the hurdles.

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