

THE TECH

VOL. XXXIII. NO. 154.

BOSTON, MASS., WEDNESDAY, MARCH 18, 1914.

PRICE TWO CENTS

FIRST NEW TECH BUILDING COMPLETE

Aerodynamics Laboratory is Ready At Technology Site.

The first structure that the Massachusetts Institute of Technology has caused to be erected for its own uses on its site in Cambridge is the new aerodynamic laboratory. The building is finished and the apparatus is in process of installation. This together with the fact that Technology has already instituted courses in the study of this science makes it the first college in the land to be fitted to prepare students for what must in the future be an exceedingly important line of development.

The laboratory is one established by Technology out of its own funds and belongs to the department of Naval Architecture and Marine Engineering of which Professor C. H. Peabody is head. The new building is a modest construction on the Institute's land at Vassar Street. The portion of its equipment that is first to be installed, in fact is nearly ready for use, is the four-foot wind tunnel with its accompanying blower. This is of the pattern now in use at the National Physical Station at Teddington, England, an up-to-date institution which has graciously furnished the plans of its own well-tested apparatus. One result will be that when Technology gets the machinery in place it will be able to start ahead at full speed. The preliminary ground in which it is usually necessary to spend time in experimenting has been pretty well worked over and results may here be looked for, while the patterning of the station after one of known success will point to immediate effectiveness in the tests.

One of the questions that is likely to be asked at once is why such experimentation and such a course of

(Continued to Page 4.)

T. C. A. SPEAKER

D. Francis to Speak on Ideals At Tomorrow's Meeting

Tomorrow noon, the T. C. A. will have one of the most popular speakers in greater Boston, and one who is constantly in demand to speak at men's meetings. The speaker is the Rev. Mr. James A. Francis, the pastor of the Clarendon Baptist Church, of this city. Dr. Francis is not entirely unknown to Tech men, for he has been a T. C. A. speaker at the weekly meetings in the Union for the past two years. Last year, he spoke on "The Real Dynamic Behind Civic Government," and he will without doubt be remembered by many Tech men. His subject this year, he announces, will be "Ideals."

TECHNIQUE SIGN-UP SLIPS COME OUT TOMORROW MORNING

Book Contains Many Special Features—Edition Limited to Nine Hundred Copies.

The sign-up books for Technique 1915 will be out tomorrow morning at nine o'clock. The edition will be limited to nine hundred copies, so those who delay signing up too long may be unable to get copies, as was the case last year with a large number.

The price is the same this year as last,—two dollars and seventy-five cents. Only seventy-five cents is payable upon signing, the balance being due upon receipt of the book.

Sign-up slips may be obtained from any one of the following members of the Technique Board:

Harold R. Crowell,
George Urquhart,
Theodore F. Spear,
Gabe B. Hilton,
Henry L. Leeb,
O. R. Freeman,
I. B. MacDaniels,
W. M. Africa,
T. A. D. Fessenden,
H. P. Sabin,
H. B. Pickering,
C. M. Runels,
St. E. T. Piza,
P. L. Small,
J. M. Livermore.

Every man in the Institute will have an opportunity to contract for a book during the following week. More than one chance cannot be guaranteed, as all indications point to an excessive demand for the issue.

The chief aim of the 1915 Technique Board has been to get out a book that will be different from the

SENIOR CLASS DAY

Ballots For This Important Election Mailed Today.

The ballots for the election of the Senior Class Day Committee were mailed to the members of the class today. Only the names of those who had paid their dues for this year were included in the list, and only those ballots will be counted which bear the signature of one who has paid his dues. The dues may be passed in with the ballot however, and the vote will be counted in that case.

The Election Committee wishes to emphasize the importance of this election, as the success of Class Day depends largely upon the men elected, and hopes that each and every Senior will make it a particular point to see that his vote is at the Cage before noon Tuesday, March 24, at which time the election closes.

books of the past few years. To this end many of the old formalities have been dropped. New features have been introduced with the purpose of making the book more interesting and more representative of student life at Tech. The past year has been filled with many important events in the history of the Institute. In order to record these events in the most attractive manner a new department has been introduced. This department is called "The Year In Review" and gives a record of Institute events that should be in the home of every Tech man.

Technique 1915 will be unusually rich in photographs. There will be over fifty informal pictures of Juniors taken about school as well as a large number of pictures of well known professors. These are all characteristic, and have been arranged so that they will appeal to every Junior.

The athletic department is something more than a bare record of events this year. Accounts of the year's work of each team have been written by men who are intimately connected with the teams. The athletic department is also filled with informal pictures of Field Day and other athletic events.

The grind department will speak for itself. Those who should know say that it is the funniest work of the Institute's funniest men.

This book costs \$800 more than Technique 1914. It will be an all deluxe edition bound in the heaviest ooze leather with stiff covers. There will be five full pages in full color instead of one as in the past. The quality of the engraving cannot be surpassed.

Technique 1915 offers you all these improvements for the same price as last year's book—\$2.75.

GLEE CLUB REHEARSAL

There will be a special rehearsal of the Glee Club Thursday afternoon, at five. This rehearsal is very important as there are but few more before the Spring Concert. It is also necessary to practice a couple of new songs which are to be sung at the Natick Concert Friday night. A double fine will be imposed for absence.

NEW CLEANER HERE

Spencer Company Loans Machine for Tests.

The Spencer Company has loaned the Institute a Spencer Turbine Vacuum Cleaner, which is being used in connection with Senior laboratory work. Various tests are conducted, in which the men determine how much power it uses, the amount of air it exhausts, etc. The cleaner has been placed in the turbine room.

ORCHESTRA TO PRACTICE WITH REST OF SHOW

Mr. William Howard Will Conduct—Violinists Are Needed for Orchestra.

A music rehearsal of the Tech Show, with all departments working together, will start at 4.15 this afternoon, in the dining room at the Union. Mr. William Howard will be in charge. Mr. Howard has had experience that especially fits him for the position which he holds with this year's Show. He has been concert master of a large number of important concerts which have been held in various cities of New England. He is at present a member of the Boston Festival Orchestra. For five years he has very satisfactorily conducted all the Boston Municipal Concerts.

Mr. Howard hopes that a number of violin players will report at this rehearsal. The management wishes to call the attention of any men at Technology who are able to play this instrument to the fact that besides his work in other musical fields, Mr. Howard is an expert violinist and has studied under Winternitz, the violin master.

Every man who expects to go on the stage at all during the production of the Show should be present promptly at quarter past four today. This includes those who are in any of the specialties as well as the members of the ballets, the cast and the chorus.

INSTITUTE COMMITTEE

There will be a special meeting of the Institute Committee Friday afternoon at five. The report of the committee investigating the reorganization of the Cooperative Society will be considered, and in addition a report from the Tech Advisory Council will be heard.

WEATHER

Generally fair; colder tonight; moderate variable winds.

CALENDAR

Wednesday, March 18, 1914.
7.45 p. m. E. E. Society, Union.
Thursday, March 19, 1914.
1.30 T. C. A. Union.
4.00 Show Pony Ballet rehearsal—Room B, Union.
5.00 Special Glee Club rehearsal, Union.
Friday, March 20, 1914.
4.00 p. m. Show, Pony Ballet, Room B, Union.
5.00 T. C. A. Union. Rooms A and B.

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.

Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

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Subscriptions, \$2.00 per year, in advance. Single copies, 2 cents.
Subscriptions within the Boston Postal District, and outside of the United States, must be accompanied by postage at the rate of one cent a copy.

WEDNESDAY, MARCH 18, 1914.

IN CHARGE OF THIS ISSUE.

R. B. Stringfield, '15; H. S. McQuaid, '17.

One source of pleasure and profit which many come a long way to enjoy, yet which most Tech men neglect, because it lies at their very doors, is the lecture courses given by the Lowell Institute. The present series, given by Professor Bertrand Russell, of Cambridge University in England, presents some particularly novel and substantial ideas for such as enjoy them.

Professor Russell admits with smiling frankness that philosophy has engaged more thought with less result than any other branch of human speculation; but he is here to tell us of what he believes to be a new philosophy, an introduction of order into what has been for practical purposes chaos. Mr. Mackaye's words before the Forum, telling us of the introduction of the scientific method into the realm of morals, have scarcely died away, when from across the ocean comes one of the greatest minds of the age to tell us that philosophy, which gives us the closest possible knowledge of the cosmos, is also to rank as a science.

We are impressed that science is a method. Independent of subject matter, it has forged ahead and made itself indispensable in every field where it has had opportunity to show its worth. That it is finding an application so broad and so thorough as to lend to its sister field, philosophy, is of some interest to us who are privileged to know it at its best.

COLLEGE NEWS

Since Pennsylvania can boast of only two songs, which are entirely her own, the Musical Clubs have offered a prize of twenty-five dollars to the man who will create the words and music of a new University song.

The University of Florida has joined the army. The faculty have decided to give special credit to students who belong to the Prohibition Club. The club is promoting scientific research upon the different phases of the liquor question.

The recent snow during the first week of the month furnished a rare opportunity for a snowball fight at Chattanooga.

For the first time since Stanford University was founded the trustees, last Saturday issued a financial statement, which showed that the wealth of the institution amounts to twenty-four million dollars. This includes the original endowment for general maintenance, the capital increase since then and other endowments and special funds, but it does not include the value of campus lands, buildings, equipment, etc., since they are not revenue producers. The income last year was over one million four hundred thousand, which is small compared to that of other universities of the east. This fact is undoubtedly due to the fact that tuition is free to residents of California and only thirty dollars a year to non-residents.

There are fifty-four "L" men in college at Lehigh. Out of these fifteen letters were awarded in football, nine in baseball, eight in lacrosse, six in basketball, ten in track, two in wrestling and one in gymnastics.

Wellesley gets three weeks vacation on account of the fire in College Hall.

COMMUNICATION

The Lambda Chi Alpha Fraternity is very grateful to the Technology men who offered help during and after the fire at their chapter house on Monday night.

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**DRAWINGS EXHIBITED
IN DESIGN ROOM**

**Rosenberg, Barrows, and Goeth
Get First Mentions
In Problem.**

A number of drawings made by Professor Williams while a student at the American Academy are on exhibition in the Design Room in Pierce.

The Advanced Year design problem, "A Conservatory of Music For a City of Importance" has been judged and is also on exhibition. The awards were:

First Mention (1) L. C. Rosenberg.
First Mention (2) W. W. Barrows.
Second Mention (1) R. C. Goeth.
The Senior Problem, "A Library For a City of Size" has been judged as follows:

First Mention (1) F. S. Wheaty.
First Mention (2) F. H. Kennedy.
Second Mention (1) R. D. McEnary.
Second Mention (2) P. L. Small.
Second Mention (3) P. S. Howes.
Third Mention (1) F. Whitten, Jr.
Third Mention (2) B. A. Abuldnour.
Third Mention (3) Miss Constance Fuller.

Third Mention (4) J. A. Root.
Third Mention (5) E. E. Merrill.
Two Junior Problems are hung. One is a six hour sketch for a "Subway Entrance with An Advertising Tower" and the other a "Railroad Station for A Small City." The mentions on the former are:

First Mention (1) E. B. Goodell, Jr.
First Mention (2) O. R. Freeman.
First Mention (3) H. P. Sabine.
Second Mention (1) M. W. Pettibone.
Second Mention (2) B. L. Johnson.
Second Mention (3) R. W. Baldrey.
In the latter of the two they were:
First Mention (1) W. G. Sprague.
First Mention (2) B. L. Johnson.
First Mention (3) E. P. Norberg.
First Mention (4) H. L. Von Rosenberg.

First Mention (5) L. S. Robinson.
Second Mention (1) W. E. Ash.
Second Mention (2) T. K. Hine.
Second Mention (3) M. W. Pettibone.
Second Mention (4) H. P. Sabine.
Second Mention (5) S. M. Spalding.

B. Y. M. C. U. MEET COMING

**Wrestling Squad Working Hard
—Prospects Good.**

The wrestling team is now just recovering from the soreness obtained in last Saturday's match with Yale, and the men are diligently practicing for the biggest meet of the year, that with the B. Y. M. C. U., next Saturday night. It is still doubtful whether Treat will get into the meet as his arm is still sore from the sprain received at New Haven. Captain Kelly announces that all men on the squad will have a chance to make the team for Saturday night as he expects there will be twelve or fourteen bouts. Tryouts will be held tomorrow afternoon to pick the men who will work.

Practice for the Freshman-Sophomore meet is now being regularly held in the gym. Captain Kelly says that there will be at least one bout in each class, and he is trying to arrange more. Tryouts will be held about March 26, and the teams

will be then picked. Meanwhile there is a chance for every freshman and sophomore to make the team even if he does not know one hold from another.

**FRESHMAN GLEE TO BE
HELD NEXT MONTH**

**The Provisional Dance Order
Will Be Published Next
Week.**

At a meeting of the Class of 1917 Governing Board held yesterday in the Union, plans were perfected for the Glee to be held April seventeenth. The Board wishes to state that contrary to article in THE TECH yesterday the dance is to be called the Freshmen Glee. They claim that they are not competing with the Junior Prom in any way and that the persons who gave the information to the paper that the affair was the Freshman Prom did so without authority.

The dance will begin at eight o'clock. A reception will be held from eight until half past and then dancing until two o'clock. A supper will be served at eleven thirty. Provisional dance orders have been made out and inserts may be obtained at the Cage early next week.

Seventy-five couples has been set as the limit and already over fifty have signed up. All sign-up books should be turned into the Board on Friday, March 20th at four. The request is made that those intending to come attend to this matter at once. Any member of the Board can receive sign-ups. They wish to state that they, as a whole, are vitally interested in the success of the dance and that they will endeavor to show everyone a good time.

SOUTHERN CLUB DANCE

**Saturday Night at The Copley
Plaza—Announcements.**

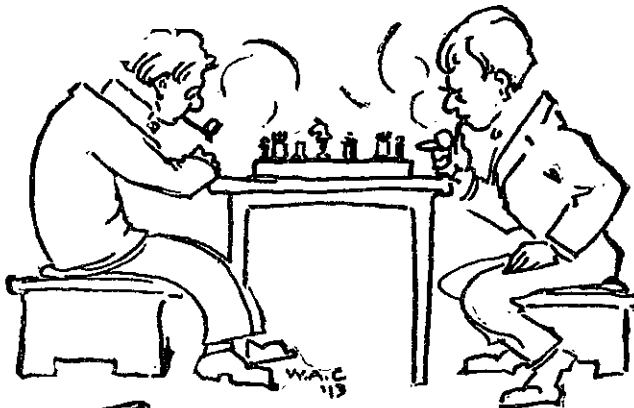
The Southern Club will give its second dance of the year Saturday night at the Copley Plaza. Preparations have been going smoothly, and the affair promises to be an even bigger success than the preceding one. The dance order will be published in THE TECH tomorrow. A. R. Williams, Chairman of the Dance Committee, announces the list of patrons and patronesses as follows: Dean and Mrs. Alfred E. Burton, Professor and Mrs. Frank Vogel, Dr. and Mrs. Henry B. Phillips, Professor and Mrs. W. E. Wickendon, Major and Mrs. Edwin T. Cole, and Dr. Joseph Blackstein.

ROAD CONSTRUCTION

**Mr. Perkins To Address Civil
Engineering Society.**

Mr. G. H. Perkins, Superintendent of Refineries for Warren Brothers Company, will speak in Huntington Hall at 8 P. M., Friday, March 27th. He will talk on "Modern Country Road Construction." The talk will be illustrated with moving pictures on road building and stereopticon pictures of roads. The meeting, which is under the auspices of the Civil Engineering Society, will be free and open to all. Further announcements will be made later in THE TECH.

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SAT., 1.45 to 5. TOSCA. Weingartner. Marcoux, Zenatello. Cond., Weingartner. Followed by COPPELIA, Act I. Galli, Caldwell, Cocchetti. Cond., Dubois.

SAT., 8 to 11. SAMSON AND DALILA. Gay, Lafitte, Danges, Wronski, Ludikar. Cond., Tournon. Pop. Prices 50c to \$2.50. Box Seats \$5

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JUNIOR PROM

THE TECH has been authorized to publish the list of the matrons for the Junior Prom. They will be Mrs. Maclaurin, Mrs. Jason Mixer, Mrs. Everett Morss, and Mrs. Jasper Whitings.

Preliminary dance orders will be out Monday and can be obtained from the members of the committee. As there are only twelve subscriptions left the committee wants all men who are not sure of going to hand in their names so that they can be put on the reserve list.

M. E. TALK POSTPONED

The meeting of the Mechanical Engineering Society which was to be held Thursday afternoon, March 19, has been postponed until Wednesday afternoon, March 25, on account of conflict with the lecture in aviation.

N. E. I. CHAMPIONSHIPS

Through the courtesy of the Harvard Athletic Association the second day of the New England Intercollegiate Championships will start at 2.15 o'clock. These championships will be held on May 22 and 23 at the Stadium. They will start at 3.00 o'clock on the first day.

CORPORATION MEMBER

M. Robert Hoyt, '09, Appointed To Institute Corporation.

Mr. Robert N. Hoyt, '09, of Wellesley Hills has just been appointed by the Corporation of Technology as special lecturer on Public Health Administration in the Institute. He is a graduate of the courses in Biology and Public Health, was health officer at Princeton, N. J. A year ago Mr. Hoyt came to Massachusetts to become administrative officer for the cooperative community health work that has been adopted by half a dozen towns about the city. This working-together plan, which was established and has been fostered by the professors of Tech, furnishes to the towns an up-to-date health administration, the cost of which being divided comes within their financial means.

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AERODYNAMICS (Continued From Page 1.)

instruction should be placed in the department of Naval Architecture. It is perfectly true that aircraft may be looked at from two different points of view, some considering it to be a machine, and consequently belonging to Mechanical Engineering, while others realize that there is much in common with the ship that sails the sea. The truth is that many of the problems of the two kinds of navigation are the same, the kinds of work are substantially the same, and the form of the dirigible like that of the boat is controlled by stream lines. Then the means of propulsion had much in common in the two kinds of constructions.

It is true that the aeroplane has attracted much attention, but it must be realized also that there is serious work for the dirigible, and in aeronautics attention must be divided between the two. Thus it is that the department of Naval Architecture is doing the practical things in the courses in aerodynamics, and that a Lieutenant of the U. S. Navy, Jerome C. Hunsaker, has been detailed to a connection with Technology in charge of the instruction.

For some time areodynamic work has been done in a tentative way, and Professor Peabody has been reading aeronautics with the Naval constructors in his department, it being realized that there are always some such officers in the school since the Department of Navy sends all its constructors from Annapolis to continue for two or three years at Tech. Further than this there is now established a course in aeronautics divided between the aeroplane and the dirigible in the regular curriculum with times set apart for drawing. This beginning is to be strengthened as time goes on, it being only last June that it was decided by the Corporation to take up regularly the courses in question.

Lieutenant Hunsaker, as soon as he was detailed for the work at Tech of which he is a graduate, was sent to Europe where he acquainted himself with the status of the science. He visited the principal laboratories and assembled the best opinions on the subject. In his report to President Maclaurin he recommended the adoption of certain lines of study and the establishment of a laboratory in which work of experiment might be carried on. So soon has Technology begun the work seriously. In the past it has not been negligent and has done what was possible under its crowded conditions. Already a small wind-tunnel has yielded some excellent results; last year special lec-

tures were given by A. A. Merrill, while thesis work has been done in different years by the students, one investigation, the determination of the thrust of the main shaft having thus been taken up a couple of years ago by a small group of students.

SENIORS NEGLIGENT

Many Statistics Blanks For Portfolio Still Out.

The Senior Portfolio Committee has been appealing to the men of the Class to return their proofs and now they are asking the men to return their class statistic blanks. Only one hundred out of the three hundred and fifty Seniors have sent in their blanks. These should all be returned to the Cage at once so the Committee can make out the class statistics and get them to the printer within two weeks.

A few men have not returned their proofs. Unless these are returned before the last of the week—from those men who have already received their proofs—the Committee will make their own selections of the proof to be printed.

The sign ups are going along slowly. All those desiring to sign up may do so with any of the following men, who have sign-up books: Calver, Dawson, Dorrance, Duffield, Barrett, Fox, Crowell, Fiske, Guething, Hines, Hiller, Morrill, Morse, Peaslee, Salisbury, Stone, Treat, Todt, Wells, White, and Wilson.

DEVELOPMENT IN BRAZIL

Mr. Kemp To Give Illustrated Talk Tonight.

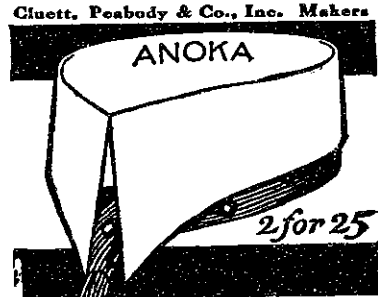
The Electrical Engineering Society extends a special invitation to those men who are leaving the Institute this year, and who expect to become engaged with any of the large engineering corporations, to attend their meeting tonight in the Union at 7.30. Mr. H. D. Kemp of the class of '12 will give an illustrated talk on "Recent Development in Rio de Janeiro." Mr. Kemp has been engaged in engineering work in Brazil for some time, and has brought home with him many interesting photographs taken in this comparatively undeveloped country which offers so much to the young Technical Graduate.

SOPHOMORE BASEBALL

All candidates for the 1916 baseball team are to meet Manager Smart at 4.00 P. M. this afternoon in the Gym.

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