

THE TECH

VOL. XXX. NO. 111

BOSTON, MASS., MONDAY, MARCH 20, 1911

PRICE TWO CENTS

GREAT TECHNOLOGY

CONGRESS SOON

Educators and Alumni from all over World will Participate

BIG SOCIAL FUNCTIONS

Noted Men will Present Papers of Great Value on Various Subjects.

The most elaborate of plans are being formulated for the success of the great Congress of Technology celebrating the fiftieth anniversary of the granting of the charter of the Institute by Massachusetts. Scientists and educators from all over the world will gather in Boston on April 10, and 11 to participate in this event which bids fair to overshadow the famous "All Technology Reunion" of 1908

This Congress of Technology is of unusual interest, not only as marking a period in the development of one of the greatest technical schools of the world, but also because it marks the rise and exceptionally high development of all that is now included under the name of "engineering" and "applied science".

The session of the Congress will be held in the Institute Buildings. It will open on Monday afternoon, April 10, with an address by President Maclaurin in Huntington Hall. Following this, topics of special interest will be discussed by the reading of papers

On the second day of the Congress, Tuesday, both the morning and afternoon sessions will be devoted to the presentation of papers on various subjects in the different buildings of the Institute. The Congress and also the laboratories etc., will be open to the public, on its second day. The evenings of the two days will witness social functions of the alumni, taking place in Symphony Hall, and will be open to alumni and invited guests. On Monday evening will be a monstrous smoker and on the next night a banquet of alumni and guests, will take place.

When, fifty years ago, William Barton Rogers became the Institute's first President, the most advanced ideals of technical education went a little further than the perfecting of Mechanics to be still better mechanics. There was, however, a perception, though dim, of the fact that unfolding science must inevitably be applied to the solution of practical problems in many untried ways. The present scope of applied science was a little forseen, however, as the advance of pure science upon which the Institute of to-day is founded.

Entire departments of applied science have been virtually created since the Institute was first opened. Water supply and sewerage engineering and much of electrical engineering are products of a recent time.

A survey of these fields will be presented in the papers before the Congress, and with these, the newer problems of business administration and scientific management. The subjects of Architecture, Business Administration, Economics, Public Health and Factory Sanitation, Industrial Organization and training, Power production and Distribution, Materials and Manufacturing Processes and covered in these papers. The subjects of scientific management will be presented from many points of view as it may effect railroads and other manufacturing industries.

Among the speakers will be men who have made good in almost every branch of engineering and business.

SPRING TRACK SEASON

OPENS TODAY

Track Dinner Friday a Grand Success Capt. Salisbury Issues Call for First Practise at Field

BEST SCHEDULE IN YEARS

Manager Benson Gives out Plans for The Season. Dual Meets with Brown and Dartmouth both Away from Home.

Forty-five of the Institute's track men sat down together in the Union at six o'clock Friday night at the Spring Track dinner. They ate heartily of the good things provided by Mr. Colton and then listened to talks by the guests of the evening on subjects pertaining to track work, afterwards adjourning to Huntington Hall to witness the performance of the "Chocolate Soldiers". The speakers, with one accord, brought in as the keynote of the evening the phrase, "Win the Intercollegiate".

Prof. Tyler was called on to give a little advice and said that he knew very little about athletics and gave some funny stories of the athletes of a noted Southern college to prove his statements, but he said that he did know some thing about mountaineering as a sport and a valuable recreation and he could recommend that as a form of exercise for the fellows after their college days were over.

Dr. Rockwell spoke briefly on the developments of the Du Pont Cup and the competition for it. He told of the idea of having one day for the leaders to settle the competition. He said that the Council would award the customary cups in the Spring meet and that he wanted to see a big squad out so that a well balanced all around team could win the Intercollegiate.

Manager Benson in giving out his schedule said that it was long and hard, and that it was up to every man to come out early and train hard until after the big meet had been won. The schedule is very complete and is definitely arranged, with the exception of the Dartmouth dual meet. The dates are as follows:—
April 1, Inter-course Cross Country
April 8, 1913-1914 Cross Country and Track Meet
April 15, Spring Meet
April 29, Brown Meet at Providence
May 12, Dartmouth at Hanover
May 19-20, N. E. I. A. A.
May 26-27, I. C. A. A. A.

Capt. Salisbury told of the records of Institute track work and asked the men to come out without being followed up and made to come to the Field for practise. Coach Kanaly began his little bit of fun by saying that he had been with the State in charge of her track men for four years, that he had trained every one of the men now running and he should consider himself a failure, so a coach if he could not get a team that could take the championship this year. He said that he looked on Dartmouth, Williams and Brown as our most dangerous opponents, and in conclusion he asked each man to make out a list of the days he could work and follow the list carefully, showing up at the field every night on time so that the coach could give him his full amount of attention

The first call for all candidates for track and field events on this year's Track Team, has been issued by the captain and all men with any ability what ever are urged to report at Tech Field in Brookline to Coach Kanaly for further instructions. In order to get the best results the coach requests each man to report four times a week, preferably, Monday, Tuesday, Wednesday, Thursday, and Saturday. A book will be placed in the locker. Please sign under the days you will report and state the time you can be expected to be ready for work. All out, and get others to go with you.

SHUBERT THEATRE SECURED

FOR "FRENZIED FRENCH"

Will be Presented in Two Matinee Performances, April 20 and 21.

POSTER GOES ON SALE TODAY

Management not yet Ready to Announce Later Dates.

Dates for the presentation of "Frenzied French" in Boston have been finally decided upon. Arrangements have been made for two matinee performances, to be held in the Shubert Theatre on Thursday and Friday, April 20th and 21st.

The Show considers itself very fortunate in being able to secure Boston's finest theatre during Junior Week. This is the theatre best suited to the needs of the Show, as was shown in last year's production of "The Queen of the Cannible Isles", which was given in this same place. Both in Stage facilities and in seating arrangements the Shubert is highly satisfactory. The stage is equipped with all modern appliances necessary to the presentation of a musical comedy, so that all scenic effects may be rendered advantageously. Moreover, every seat in the house affords a good view of all parts of the stage, a condition which will add greatly to the enjoyment of the audience.

As all arrangements have not been completed for the other performances of the Show outside of Boston, no definite announcement of them can be made at this time. However General Manager, I. W. Wilson hopes that all such arrangements will be completed in the near future when these dates will be made public.

The sale of the Poster commences today and it behooves every body to procure one as soon as possible. For this year's Poster is a thing which no one will want to do without. Get one immediately at The Cage.

CLASS DAY COMMITTEE

POLLS CLOSE WEDNESDAY

Seniors Urged not to Forget this Most Important Election

The Seniors are not voting as well as might be expected. There are but three days left before the polls close in the Class Day Committee election, and a large percentage of the ballots are still uncalled for at the Cage. This election is a very important one, and it is hoped that a large vote will be cast. It is to be feared that if the matter is put off until the last minute that it will be overlooked entirely, so please "Do it now."

Ballots are due at the Cage not later than 4.00 P. M., Wednesday, March 22, and will be counted that same evening by the Board of Directors. It is to be emphasized that ballots on which more than twenty-five names are marked, will be rejected. It is also necessary that the man voting sign his name on the outside of the printed envelope in order that proper check may be had on his eligibility to vote, and ballots contained in envelopes not so signed will also be rejected.

It does not seem to be fully understood why President Steven's name does not appear on the ballot; he is a member ex-officio of the committee by virtue of his office.

It is hoped that the second ballot containing the names of the Class Day Committee only, as elected on this first ballot, may be ready by the last of this week, so that the entire election of Committee and Marshals may be completed by the latter part of next week.

PROM COMMITTEE

PLANS MUCH

Attempts to Vaporize Doubts as to the Individual Expense.

LARGE CROWD EXPECTED

No Need to be a Junior to Attend—All Come in, The Water's Fine.

Now is the time of year, when everyone is thinking about Junior week, and people are running around securing dances for the Prom. A large number of people are going, in fact record attendance is expected but many others who are not going will miss a great deal. Two of the reasons given seem to be absolutely final. This however, is not the case. The first is, "Well I'm not a Junior, I so couldn't go anyway." This answer comes generally from the freshmen. This is, however, a reason which really argues for going instead of for staying away. Everybody hopes to be a Junior sometime and when they get to the third year, they all expect to go anyway. Why not go the two years preceding and get good points from those two Proms. for future reference and use? If one doesn't expect to stick it out for three years here, he should go and see it anyway, so that he can feel, afterwards, that he missee the one event of the year in Tech social affairs.

The second reason is generally, that it is too expensive. People say in all seriousness, that they live, or their girl lives, out of town and they can't afford \$20 to \$30 just for the Prom. If they would only look into the matter, they would find that this is an extreme exaggeration. There are any number of Boston hotels with large rooms which will accommodate a young lady and her chaperone very comfortably for a comparatively reasonable rate. The young lady and chaperone may be brought in on the train and make their toilettes at the hotel at their leisure and in comfort. The man can do as he pleases all this time. He is expected to be able to take care of himself.

It is something funny to see a bunch of fellows in the Union when they are approached by a man with a Prom book. They act like a bunch of fellows on a tank who know that when they get in the swimming pool, they will like it but don't know whether the water is too cold. "Believe me" you'll soon like the Prom, so, "Come on in the waters' fine!", merrily sings the Prom Committee.

CALENDAR

Monday, Mar. 20

- 1.00—1911 Class Mtg.—
- 1.00—Tech Board Mtg.—Union.
- 4.15—Technique Electoral Com. Mtg.—27 R.
- 4.15—1914 Cross Country—Gym.
- 4.30—Track Practise.
- 5.00—Technique Board Mtg.—Union.
- Musical Clubs Concert—Gym.

Tuesday, Mar. 21

- 1.30—Tech News Board Mtg.—Union.
- 1.30—Union Com. Mtg.—Dean's Office.
- 4.15—M. I. T. A. A. Mtg.—Room A—Union.
- 4.15—1914 Cross Country—Gym.

Wednesday Mar 22

- 4.15—1914 Cross Country—Gym.

Thursday, Mar. 23

- 4.15—1914 Cross Country—Gym.
- 5.00—Technique Board Mtg.—Union.
- 4.30—Orchestra Rehearsal—Union.

ALL TRACK MEN AT FIELD 4.30 P. M. TO-DAY

THE TECH

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

Entered as second-class matter, Sept. 29, 1910, at the post office at Boston, Mass., under the Act of Congress of March 3, 1879.

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Office, 42 Trinity Place.
Telephone, Back Bay 2184.
All communications should be addressed to the proper departments.
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.

Printed by Maugus Printing Co.,
Wellesley, Mass.

MONDAY MARCH 20, 1911

With the first call for track candidates, for spring work out and the Show posters on sale at the Cage, it is beginning to be very evident that spring has "come". These are two activities that do the most to enliven undergraduate life at the Institute, and it seems rather fitting to note that the reason for the existence of one is for the furthering of the interests of the other. The Show people have got their work for the year well under way, and it is now up to the athletes to do their best to prove that they are deserving of the Show's proceeds. The only way to get a good track team is for everyone, who possibly can do so, to show up at the field. Let Mr. Kanaly look you over even if you think you can't run. You'll get lots of good out of the exercise anyway, and you'll find that you can do your work in about half the time that it takes now. Everybody out for track.

What is the matter with the Seniors? After the minstrel show the other night that question was heard on all sides, because of all the classes they showed less life at the performance. Now also the Election Committee is howling because the nineteen-elevens are not voting properly in the class day election. Come on fellows. Get a little life in you. Make out that ballot today. It is important.

MUSICAL NIGHT IN
UNION APRIL 7

Several Stunts Arranged but more
Wanted. See H. M. Davis '11

In view of the fact that the musical numbers of the program on the recen

CIVIL ENGINEERS IN HEATED DISCUSSION

Question as to how They shall go
to Cape Cod Bothers Members

SOCIETY TO BE BANQUETED

Boston Society of C. E. to be Hosts
to Students of Tech, Harvard and
Tufts.

The much mooted question of whether the Civil Engineers should go to the Cape Cod Canal by a special boat or a special train will be brought up for discussion at a special meeting of the Society Thursday afternoon, in Room 53 Engineering A. The advantage of going by train is the greater amount of time which can be devoted to inspection but the men in favor of the boat, claim that they can enjoy themselves better and see enough any way.

Messrs. Ireland and McGrath, the committee in charge of the trip, are to visit the Canal next Saturday to look things over, notice the most important parts to visit, and line everything up in general. They will also find out if the Keith car factory can be visited at the same time.

At this meeting also, the revised Constitution will be brought up for discussion and adoption. The most important changes allow Civil Eng. option members of Course IV to be eligible for membership and provide for ballot election of officers.

Announcement will be made of the coming dinner of the Boston Society of Civil Engineers at the City Club on the evening of April 5. The Boston Society will have as its guests, the Civil Engineering Students of Technology, Harvard, and Tufts.

Plans for the annual banquet will be discussed and preliminary arrangements will be made, such as the appointment of committees and etc.

Hook Night took so well with the crowd present, the Entertainment Committee is planning to have a Musical Night in the Union on Friday night, April 7. Franzheim, manager of the Musical Clubs is arranging a large musical program for his Clubs.

Some of the special numbers to be introduced by the Musical Clubs will be selections by the Mandolin Quintette and the Glee Club Quartette. The Glee Club will sing the new Tech song.

Z. Y. Chow will sing some Chinese songs and several other of his countrymen will render several selections on the peculiar and interesting Chinese instruments. O. B. Denison will have some of his inimitable illustrated songs.

More stunts are asked for, however, and any men, who would like to introduce a stunt, will please see H. M. Davis, 1911.

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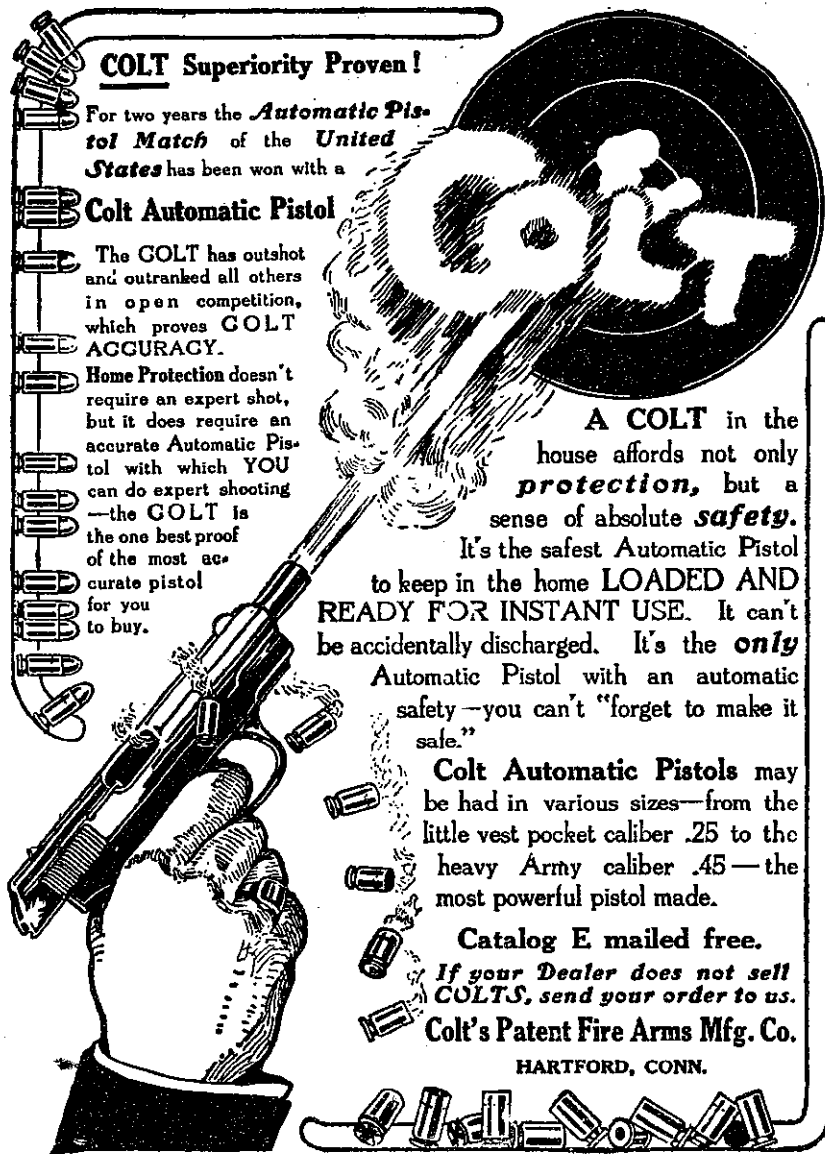
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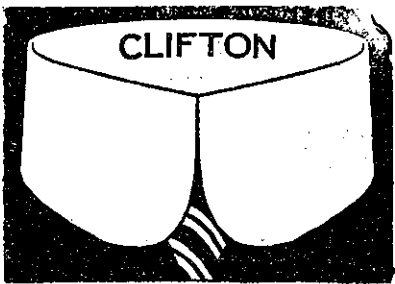
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SPEED REGULATION IN HYDRO-ELECTRIC PLANTS

Mechanicals Hear Lecture by Mr. Wm. F. Uhl Before A. S. M. E.

Twenty members of the Mechanical Engineering Society, attended the meeting of the American Society of Mechanical Engineers held in the Edison Building on Friday night, when a paper on "Speed Regulation in Hydro-Electric Plants" was presented by Wm. F. Uhl. Mr. Uhl said in part—"To obtain satisfactory speed regulation in a hydro-electric plant, it is usually insufficient to provide the turbine units with well designed governors.

Where the turbines are of the open flume type, and the velocity of approach does not exceed three or four feet per second, satisfactory regulation depends on the flywheel effect of the rotating masses only, and the formula for calculating the speed variation is—

$$d = \frac{800,000 \times h. p. \times time}{r. p. m. \times r. p. m. \times wt. 2}$$

Where incases trubines are employed, pressure variations occur which modify the results obtained from this formula. The ratio of the length of the turbine penstock to the head (L/H) is a measure of the effect of these pressure variations. When this ratio is too great to obtain satisfactory results, the design of parts of the plant must be modified, or appurtenances such as pressure regulators and standpipes must be employed to reduce the pressure variations."

Mr. Uhl gave out tables of the pressure variations for various governor regulating times for different ratios of length of penstock to head and penstock velocities. He emphasized the fact that each case must be studied and solved on its own peculiar conditions, and that much time and money were wasted in providing regulation where it was not needed.

A very interesting discussion followed the reading of the paper. Loss of head in too lengthy draft tubes and the causes of such loss were brought out during the discussion.

R. B. Brownlee, Vice-Chairman, and R. M. Ferry, Secretary of the student section were on hand and were busy meeting members of the A. S. M. E. It is reported that they arranged for several excursions of the student section to factories and plants represented by engineers present at this meeting.

INTERCOLLEGIATE GLIDER MEET AT ATLANTIC

Eleven Entrants to Complete Under Auspices of Harvard Aero. Soc.

The first intercollegiate glider meet, and the first large meet of any kind for gliders in this country is to be held at Atlantic on May 3, 4, 5, and 6, under the auspices of the Harvard Aeronautical Society. The entrants, numbering eleven include Harvard, Cornell, Pennsylvania, Dartmouth, Williams, Amherst, Technology Tufts, Worcester polytech, Volkman, and Noble and Greenough; the fact that a few of the number, especially Tech, are going to compete with more than one machine will add interest.

For the meet the method of towing will be abandoned if the starting device now under construction proves successful. This device in an inclined platform with a track and a car mounted on ball-bearing wheels. The glider, placed on the car, will be pulled up the incline to the desired height and then released, the velocity acquired in the descent being enough to send it off into the air. This platform will be mounted on broad iron wheels, to enable it to be placed in the position bracing the wind and other daily condition.

The competition will be divided into two classes depending on whether the machine is controlled mechanically or by the body movements of the operator; the tests are to be made on the basis of the efficiency of the individual machines, computed on the weight supported per square foot of wing surface, influenced by other conditions. Prizes will be offered for the best performance for speed, distance, duration of flight, and accuracy of landing; also a prize for the best total distance by a glider.

FATIMA

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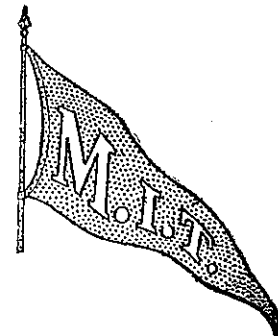
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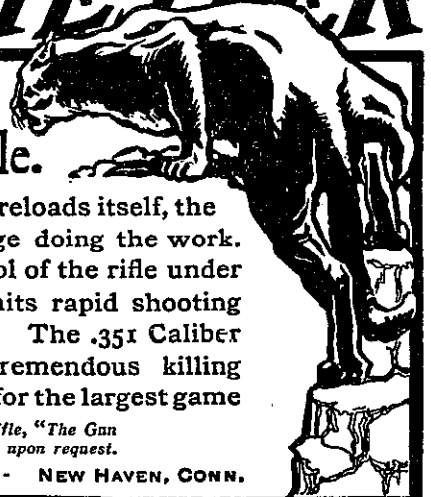


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THIRD YEAR CHIPPING AND FILING and FORGING

Exercise in Forging for Course II, Sections 2 and 3, and in Chipping and Filing for Section 1, will begin on Friday, March 24th.

Exercise in Chipping and Filing for Course XIII will begin on Thursday, March 23rd.

Walter Humphreys,
Registrar.

DRAWING DEPARTMENT

Week of March 20.
Descriptive Geometry

This work will cover Problem 22.

Mechanical Drawing

Work on the bicycle sprockets and chain will be continued.

NOTICE, 1911.

Ballots for Class Day Committee are now ready to be called for at the Cage. Polls close at the Cage at 4 P. M., Wednesday, March 22. Vote Now.
H. F. Dollier, Clerk.

NOTICE

Chocolate Soldiers

BILLS AGAINST THE CHOCOLATE SOLDIERS should be rendered before Wednesday, March 22d, as the balance is to be turned over to *The Tech* soon after that date.

All students and members of the instructing staff, who kindly assisted in the sale of tickets, are requested to cash in as soon as possible.

The Manager.

Copy of Bulletin Notice.

March 16, 1911.

The list of candidates for graduation the present year has been presented to the Faculty, and all persons whose names are on it have been notified individually. The list cannot now be changed except by vote of the Faculty, and any student expecting to be recommended for the degree the present year should consult me if he has not been notified that his name is on the list.

A. L. Merrill,
Secretary.

TECH BUSINESS STAFF

A. L. Myers will take charge of the advertising department for the special issue. Report to him and get your assignments.

Herbert W. Hall,
Business Manager.

BASE BALL GAMES

All applications for use of the Field for Base Ball Games must be made to Major F. H. Briggs, 22 High St., stating the date, hour and teams, that will contest.

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