

# THE TECH

VOL. XXX. NO. 93

BOSTON, MASS., TUESDAY, FEBRUARY 28, 1911

PRICE TWO CENTS

## JUNIOR PROM PLANS ANNOUNCED

Committee Requests that Men Sign up Promptly

Novelty in Dance Orders, Preliminary Orders to be out About March 20

Leave suggestions for Selection of Dances at the Cage.

What may very well be called the leading social event of the college year, the Junior Prom, is to take place this year at the Hotel Somerset, on the evening of April twenty-first.

It is essential that the committee in charge of the details of the Prom know so far as is possible, the number of men who will attend. It will then be able to look more comprehensively after the details of the affair. The Junior Prom Committee therefore requests that every man sign up as soon as possible.

The dance orders will be of leather and of such a character that they will prove permanent souvenirs. The execution of these programs is to be by the Wright company of Philadelphia. Preliminary orders will be out about March twentieth and the Committee desires that booking of dances be postponed until that date. In order that the Committee may get expressions of opinion of the members of the Junior Class, concerning selections for dances, any 1912 man may leave the names and order of any preferences and his name at the Cage, before March eighth. These suggestions should be addressed to the "Junior Prom Committee." As usual, flowers will not be allowed on the floor.

The following men have books for signing up a matter which should be attended to without delay:

Montgomery, Babcock, Fox, Kemp, Shepard, Wallis, Eicher, Wyman, Cremer, Partridge, Whittlesey, Dierks, Selfridge.

## COMMERCIAL MEN WILL SUPPORT INSTITUTE

Promise of the support of the Boston Chamber of Commerce for certain special projects necessary to the growth and development of Tech has been made by President Smith of the Chamber. President Maclaurin wrote to Mr. Smith relative to finding some means of interesting the Chamber in not only the Institute's general work but also some of the special problems now facing us. He states that there are several sites available for the Institute and that it should rely on its alumni for generous support in providing for its purchase, but that nothing should be done which would lower its standard of excellency and efficiency, as the highest of such standards are imperatively demanded by the special needs of the Commonwealth.

Mr. Smith wrote in reply as follows: "I have no hesitancy in saying that I believe there is no man inside or outside of our membership who does not recognize the very close relation of interdependence between the Massachusetts Institute of Technology and the business world, training as it does men to greater efficiency and power in the industrial world, and equipping them as it does now, and ought more and more in the future, to assist business men by expert and practical advice.

"I am sure that the members of the Boston Chamber of Commerce welcome your appeal for their support, and that they will handsomely respond in co-operating with the Institute."

## Mr. F. H. FAY '93 SPEAKS TO CIVIL ENG. SOC.

Says that the Function of the Civil Engineer is Becoming Administrative

### LEGAL ENGINEERING

A Civil Engineer Must be a "Good Mixer" and be Well up in Legal Matters.

Last evening the Civil Engineering Society held the third meeting and dinner of the term in the Union. After the dinner Mr. F. H. Fay '93, Division Engineer of Bridges and Ferries of the City of Boston, gave a very instructive talk on "Law and Engineering." Mr. Fay said in introducing his subject: "Every engineer who rises to a position of responsibility has frequent occasions to deal in law cases." He then gave a short history of the engineering profession, beginning with the Military engineer, the aim of whose work was destruction, down to the very specialized constructive work of the present day.

He made the statement that the function of the engineer in the Nineteenth Century was mainly Constructive, but that of the Twentieth it would become more and more Administrative. An engineer of to-day must be a man who can take the principles laid down by the scientist and apply them to practical work. He must be eminently a business man in order to make a success in his profession. It has been said that the Civil Engineering profession is over crowded and it is true in so far that there are men in that profession "out of a job", but there is no profession in which there is better opportunity for the practical business man with engineering training.

Mr. Fay then took up the main subject of his talk—"The Legal view of Engineering and divided the subject into three branches namely the Constructor, Administration, and the Expert Witness.

As a constructor and administrator almost every engineer is called upon to draught contracts and specifications. The engineer is the man who is fully conversant with the work and is much better qualified to draw up the contract than an ordinary lawyer who knows nothing about engineering, but it is important, that the engineer should know the law fully in order to make a contract that will stand but "legal proseology is less important than ideas".

The engineer moreover on a contract job, is called upon to be a referee between the owner and the contractor in the interpretation of the contract and should therefore be capable of understanding just what the contract means in law.

As an expert witness the engineer is called upon to testify as to his opinion on a hypothetical question and not as the ordinary witness, as to fact. He must be fully conversant with the law as to its bearing in all points relating to the question and must also make his simple enough to be understood by the jury. A case was cited where an expert witness's testimony was thrown out because he predicted, at the time steam locomotion was introduced, that trains might eventually run at the rate of ten miles an hour.

In conclusion Mr. Fay said, that a civil engineer must be a good mixer, be able to handle men, and must be well up in legal matters.

Previous to the meeting, Vice President Robinson brought up the matter of the Joint Society Meeting which the Electrical Engineers are planning to hold in the near future. The society voted to accept the invitation of the E. E. Soc. to be present. It was also announced that the Society is planning a trip to the Cape Cod Canal, by boat. The officers hope that all men who expect to go will sign up as soon as possible in order that there may be some basis for estimating the cost of the trip.

## MECHANICAL ENGINEERS EXCURSION TO BRIDGEWATER

M. E. Society to Visit Stanley Iron Works at Bridgewater Junction next Friday Afternoon

MEN TO MEET AT 20 ENG. B. FRIDAY 2 P. M.

Train leaves Bridgewater 6.06 P. M.

Friday afternoon of this week, the Mechanical Engineering Society will run an excursion to the plant of the Stanley Iron Works, at Bridgewater Junction, Mass. As this is the only steel rolling mill in this section, it is expected that a large number of students will avail themselves of this opportunity to see the process at close range. As a rule, visitors are not sought in this type of mills, but in this case the men will be allowed to roam over the plant at will, but are cautioned against standing too close to the scene of operations as the company will not be responsible for any accident.

The process consists of heating steel billets until they are practically dripping, and then rolling them from their original size and shape which is four or five inches square and three feet long, down to thin ribbons one hundred to one hundred and fifty feet in length. This material is wound like a clock spring for convenience in shipping, cooled and loaded on the cars. It is used in the manufacture of cutlery.

The type of furnace used in heating the billets, and the utilization of the waste gases in generating steam for the engine should be of great interest to the men. The heavy duty rolling mill engine will surely attract attention. The 2000 Horse Power Rise and Sargent tandem compound engine making 70 R. P. M. drives the main shaft of the mill on which is mounted an 80 ton flywheel, as smoothly as the heart of an engineer could desire. The power house is also equipped with and auxiliary engine, jet condenser, powerful fans which maintain a draft of three or four inches at the furnaces, electric generator, etc.

In the Company's foundry the men will be able to see the molding and casting of the chilled rolls used in the rolling mill, as well as other kinds of foundry work. In the machine shop will be seen the enormous slow speed roll lathes, where the rolls are machined. The Company also operate a small hydro-electric plant for lighting and electric drive purposes, which by the way, was tested last year by Messrs. Downs and Castlehoun of Course VI, as thesis work.

This excursion, which no one can afford to miss, will be run on Friday afternoon, March 3rd. The train leaves the South Station at 2.35. Some of the men who desire to go to the train together, will meet in 20 Eng. B at 2 o'clock. As no rate can be obtained, each man is advised to buy his ticket to Bridgewater Junction. Coming back the best train is an express which leaves Bridgewater at 6.06. For those who have friends at the State Normal school at this place, it may be well to state that a dance is rumored for that evening in the town hall. Some few of the men have already planned to stay over.

## HARVARD GETS THE I. A. A. A. MEET

The decision of the I. A. A. A. at its annual meeting Saturday night in New York, to hold the track and field games this year at the Harvard Stadium, was a source of satisfaction to the larger colleges. M. L. Waterman represented M. I. T. Syracuse tried very hard to get the meet, but the condition of the track at Ithaca tended to swing the votes in favor of Harvard.

## NEW PROFESSOR IN SANITARY SCIENCE

Simeon C. Keith '93 to be Asst. Prof. in Research Laboratory

### OTHER NOTES

Allumni Association Making Preparations for Tech Congress.

It has been announced that Mr. Simeon C. Keith, '93, has been appointed assistant professor on the staff of sanitary research laboratory at the Institute.

This laboratory, to which an anonymous donor has just given \$6000—in all from this land, \$50,000—has been located since its establishment in 1902 on one or another of the trunk sewers, at present near the pumping station in Dorchester, and has made a complete study of the sewage of this city. The findings are that such a system, excellent as they were when completed, need modification to be in accord with the science of to-day, and an important labor on the part of this laboratory has been to outline and develop plans for its improvement.

The New England Water-works Association, which meets on Wednesday, March 6, at the Brunswick, has through its president, Allen Hazen, an alumnus, extended to students of Tech an invitation to hear the papers at 2.30 P. M.

The Society of Arts of the Institute announces two meetings in March. On Friday, March 3, E. B. Wilson, professor of zoology at Conumbia University, will speak on the "Physical Basis of Heredity," and on Friday, March 24, Professor George W. Ritchey of the solar observatory office of the Carnegie Institution, will address the society on "Stellar Photography."

The Council of the Alumni Association has appointed a committee of ways and means for the entertainment of the large number of alumni expected on the occasion of the Congress of Technology in April, the semi-centennial of the founding of the Institute. Of this committee George B. Glidden of Boston, is chairman. The Council has also made a change in its constitution whereby students who have not remained with their classes till graduation, may on election become member S of the Alumni Association. Besides this the courtesy is to be extended to the graduates of the School of Mechanic Arts, now out of existence, but whose alumni have made brilliant names for themselves, that they may also be accorded membership in the Alumni Association of Tech on election.

## CALENDAR

### Tuesday Feb. 28

1.00—Tech Board Mtg.—Union.  
4.00—Glee Club Practice—Union.  
4.30—Institute Com. Mtg.—Room A—Union.  
1.30—Union Com. Mtg.—Deans' Office.

### Wednesday—Mar. 1

4.15—Gym. Team Practice—Gym.  
5.00—1911 Class Directors Mtg.—Union.  
6.30—Chem. Soc. Dinner—Union.

### Thursday—Mar. 2

5.00—Technique Board Mtg.—Union.  
4.00—Mandolin Club Practice—Union.  
4.00—Glee Club Practice—Union.

### Friday—Mar. 3

1.00—Tech News Board Mtg.—Union.  
1.05—1913 Class Mtg.—H. H.  
1.30—House Com. Mtg.—Union.  
2.35—M. E. Excursion—North Station.  
8.00—"Hook Night"—Union.

# THE TECH

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TUESDAY FEBRUARY 28, 1911

The Tech wishes to announce the election of A. J. Pastene, 1913 to the News Board, and of C. A. Cary, 1912, D. E. Lewis, 1913, and E. Steere to the News Staff. The former Tech Board is now called the Managing Board, the Associate News Editors together with the news members of the Managing Board have been organized into the News Board, the Business Associates and the business members of the Managing Board to form the Business Board.

The appointment of a committee by the Institute Committee to secure new Tech yells is the first step to increase the variety and improve the quality of our cheers. The present cheers have aroused widespread discussion, but suggestions for new yells have been offered by only a few. The competition is not now close enough to each individual to be really personal. To bring the competition closer to each man, and to arouse more widespread enthusiasm on the part of the student body, would it not be a good plan to have appointed by the present committee, sub-committees in each class and thus promote a little competitive rivalry between the four classes to submit the best add the greatest number of accepted yells? By making the competition more personal, a better selection of yells will be secured.

## CHEMICAL SOCIETY

### MEETING TO-MORROW

### Dinner, Speaking and Mysterious Stunts Not Divulged Are Promised

To-morrow night the Chemical Society will hold a meeting in the Union somewhat on the lines of the dinner held a year ago. The dinner will commence at six-thirty and will be held in the upper dining-room of the Union. Professor Walker of the Industrial Chemical Laboratory and Professor Fay of the Analytical Department are to speak on whatever subject they choose, and they have not announced their subjects. The meeting really is to be in the form of a family party and the fun committee promises something of which, hush! You will find out if you go to the dinner.

As last year's meeting was a big success and the number of tickets already sold indicates a large crowd this year a good time may be expected by all of the chemical men. Tickets for the dinner are seventy-five cents, and may be obtained from any of the society's officers.

### Orchestra May Play Hook Night

### Short Rehearsal Friday at 4.30 P. M. Programme Cut Short at C. E. Dinner

Next Friday evening at Hook Night the Orchestra expects to give the following selections: the Raymond Overture, the Egyptian Ballet, the Chocolate Soldier and, if requested, several Tech Songs. A short rehearsal will be held Friday at 4.30 P. M. and members must be on time.

Last night at the C. E. Dinner the Orchestra was to have played the Raymond Overture, the Egyptian Ballet, and the Chocolate Soldier, but on account of a rearrangement of the plans by the C. E. Society the Raymond Overture was the only selection rendered.

## TECHNIQUE 1913

At a meeting of the 1913 Technique Electoral Committee, L. C. Hart was elected Chairman to take the place of H. S. Birchard who resigned the Presidency of his class, and C. F. Cairns was elected Vice Chairman. There will be another meeting Friday afternoon and the new members of the committee will probably be announced then.

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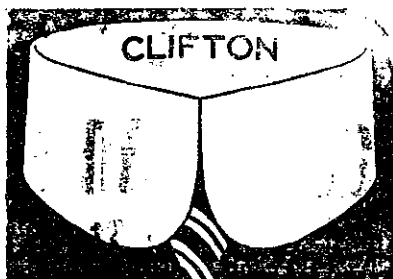
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**NEW AERIAL FOR WIRELESS SOCIETY**

**Increase in Receiving Radius Expected Transformer to be Installed Later.**

Under the direction of S. W. Stanyan '14 and H. B. Richmond '14 the new aerial for the Wireless Society has been installed. Both of these men have had a large amount of experience in this kind of work and have aided the society greatly in giving their services. The new aerial has a span of over three hundred feet, stretching from the top of Pierce Building to the further end of Lowell, and it consists of four strands of braided copper wire. It is expected that with this the receiving radius of the station will be greatly increased and that the long wave length thus made possible will enable transmitting to be carried on without interference with the commercial stations. At a later date a new transformer will be installed.

**"THE EVEN DOZEN"**

**A New Club Organized by Twelve Juniors, Meeting To-night**

Twelve members of the Junior Class have organized a society called the "Even Dozen" and to-night they will hold their first dinner at the Union. President Montgomery will give a short talk and a good time is assured. Each member has been asked to bring a friend with him. Everything is open and there is nothing secret about the society, which was instituted for the purpose of having a good time.

**C. E. LIMELIGHTS**

That beer went begging. Might be well to substitute cigarettes.

The Orchestra added a great deal of life to the meeting. Why don't the other societies follow the example?

Too bad there was such a small attendance. Hope Mr. Fay will give the same speech again as it is well worth repeating.

**COLLEGE NOTES**

This year Yale will lose ten foot-ball men by graduation, while Harvard's loss is six and Princeton's two.

The University of Missouri is to have a new stadium, the plans for which are being drawn by the students in the engineering department.

Pennsylvania has a baseball schedule comprising thirty five games this year. Eighteen will be played out of Philadelphia, among these is one with Harvard in Cambridge, on June 7.

An American University Club has been opened in London.

Minnesota has dropped Michigan from her football schedule.

A prize of \$5000 has been offered to Yale students by Mr. Frederick Thompson—a big man in New York theatre affairs—for the best play by an undergraduate.

**IN THE TECH**

New Tech yell? Try the Maori war cry.

Got your entry in for Hook Night?

One of our editors went yesterday to the Senate Chamber on Beacon Hill in the expectation that the Tech appropriation bill would come up for consideration, but nothing happened.

Have you heard of the Tech pennants on the stage at the Colonial in the "Girl of My Dreams"?

Some leader that the orchestra has.

Dartmouth's football schedule was announced yesterday. The Green will play 10 games, the season opening Sept. 27 and closing with the Harvard game Nov. 18.

M. D. Vail, goalkeeper of the All American Hockey team, has been elected captain of next year's team at Cornell.

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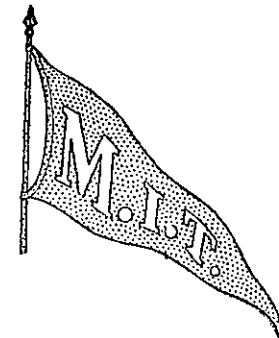
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NOTICE

The Tech News Board Meeting Friday,  
March 3, at 1.00 P. M.

(93,95,97)

DRAWING DEPARTMENT

Current Work Week of Feb. 27, 1911.

Descriptive Geometry

The "rafter" problem.  
Time allowed for this will be 5 hours.

Mechanical Drawing

To be given to the "Sprocket" Drawing.

TECH SHOW

Rehearsal of Principals and under-  
studies to-day at 4 P. M. Union Dining  
room. Chorus will not rehearse to-day,  
as previously announced.

E. H. Schell,  
Stage Mgr.

STEEL ROLLING MILL

Excursion of the Mechanical Engineer-  
ing Society to The Stanley Works, Bridge-  
water Junction, Mass., on Friday after-  
noon, March 3rd. Train leaves South  
Station at 2.35, fare 55 cents.

Foster Russell,  
Secretary.

Keep Up = Date  
**The Tech**

NOTICE

Students desiring to do stenography  
or typewriting in spare hours are re-  
quested to see the President's Assistant,  
10 Rogers, Office hours 8:30-9:00 and  
12:00-1:00 daily and 4:00 to 5:00 Tues-  
day, Wednesday, and Thursday.

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Physician will take into his family,  
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Mrs. George W. Galvin.

1911

A list of all men eligible to be placed  
on the ballot for Class Day Committee,  
will be posted on the bulletin in the  
Union about February 13. If your  
name is not on the list consult with  
any of the Class Officers at once, as  
after March 1, no name will be added.

H. F. Dolliver Clerk.

Don't Miss This

Mechanical Engineering Society lecture  
on oxy-acetylene welding. Special in-  
vitation to Civils and Electricals. Tues-  
day, March 7th, at 4.10 sharp in 11 Eng. B.  
Foster Russell,  
Secretary.

NAVAL ARCHITECTURAL SOCIETY

Meeting, business, Wednesday, March  
1 at 1.05 P. M.

S. H. Cowell,  
Secretary.

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