

THE TECH

VOL. XXX. NO. 125

BOSTON, MASS., WEDNESDAY, APRIL 5, 1911

PRICE TWO CENTS

RECOVERY OF SUGAR TAKEN AS THESIS	SHOW REHEARSALS PROGRESSING WELL	RECEPTION FOR CIVILS TO-NIGHT	DESCRIPTION OF SOCIETIES' BANQUET
<p>H. S. Smith and R. T. Haslam Investigate Process not yet Commercially Practicable</p>	<p>Dress Rehearsal at Shubert Theatre Next Sunday</p>	<p>Boston Society of Civil Engineers Have Invited Engineering Students Near Boston.</p>	<p>Described as Biggest, Best and Busiest for Years.</p>
<p>CHEMICAL NOTES</p>	<p>SEATS ON SALE NOW</p>	<p>AT BOSTON CITY CLUB</p>	<p>TICKETS GOING FAST</p>
<p>Prof. Walker will Deliver Presidential Address to A. E. C. Society.</p>	<p>All Ordered Seats Must be Called for This Week</p>	<p>Harvard and Tufts are the Other Invited Colleges</p>	<p>Only Three Hundred in All and Many are Sold.</p>
<p>For the subject of their thesis work, Mr. H. S. Smith '11, and Mr. R. T. Haslam '11, are pursuing under the direction of Mr. Rolfe an investigation on the recovery of sugar from beet sugar molasses. The method now in general use for commercial purposes, that of boiling down the molasses and recovering the sugar by crystallization, secures not more than fifty per cent of the sugar in the molasses. By the method investigated by Messrs. Smith and Haslam, all, or at least ninety seven per cent of sugar can be recovered.</p> <p>Barium hydroxide is added to raw molasses and precipitates barium monosulphate. The mixture is filtered and made a cream, carbon dioxide is passed through the cream, which precipitates the barium, and the barium is then removed as barium carbonate, leaving the sugar in solution. Great care must be taken here to remove all of the barium from the sugar as barium is poisonous to the human body.</p> <p>The barium, on account of its expense, is recovered from the barium carbonate at this stage of the procedure, by an electric furnace, and in the form of barium oxide, after it has been slaked, is returned to the process.</p> <p>This method of extracting sugar from beet sugar molasses is one of the oldest known; but as no economical and efficient process was understood by which the barium could be recovered from barium monosulphate, the method was too expensive for commercial use.</p> <p>Mr. B. W. Gilbert has been appointed to fill the place of the late Mrs. Ellen H. Richards until the end of the year.</p> <p>Prof. Walker will leave for New York on Thursday afternoon to deliver the Presidential Address before the American Electro-Chemical Society.</p>	<p>Rehearsals for Tech Show 1911 continue. Nearly every afternoon either the cast, chorus or both get together for about two hours and go over the lines, songs and dances in which they have been instructed by Coach Eugene Sanger. Mr. Sanger himself is present once or twice each week and at that time arranges new business and special dances.</p> <p>In the meantime, Mr. Albert M. Kanrich, the musical director for the Show has not been idle. The large chorus takes some part in nearly every song, and long hours of practice are necessary to instill the different tunes in each individual chorus man or "girl". Indeed, he quite has his hands full. The other day they tried a song entitled "Trouble". Immediately every man present thought of his neglected Institute work and it was with difficulty that they could be restrained from hastening directly home. Then, too, many of the songs require a speaking knowledge of French, as the title of the Show would indicate, and it is a sad, but very true, fact that many of the men have forgotten most of what they learned of that language when they were in prep school; so that Mr. Kanrich must instruct most of the chorus in their accent as well as in the music and lyrics.</p> <p>However the Show has progressed to that point where they are ready to go to the Shubert Theatre for all day rehearsals. The first of these will be held on this coming Sunday. It will be a dress rehearsal and is expected to put the men in the best possible trim for their first performance in Worcester on April 15. All the men in the Show must be present at this rehearsal.</p> <p>Tickets for the Boston performances on Thursday and Friday of Junior Week, may be obtained at the Show office, Room B, the Union, between 1 and 2 o'clock any day this week. However, the Management has been forced to limit the distribution to this one week only, so that all tickets that have been applied for must be obtained before 5 o'clock on Saturday, April 8.</p>	<p>To-night the Boston Society of Civil Engineers will hold a reception at the City Club for the engineering students of Technology, Harvard and Tufts. The members of the Boston Society are giving this entertainment in order to give the students of each institution an opportunity to get acquainted with those from the other schools and more especially an opportunity to get acquainted with the members of the Boston Society themselves. While it is necessary that those who intend to go should notify Mr. Benton of their acceptance, in order that the stewards of the City Club can make adequate preparations, yet, if any find themselves able to go, who have not agreed, they should not let this fact prevent them from attending.</p> <p>An illustrated talk on the New Pennsylvania terminal in New York will be given by Mr. G. B. Francis Chief Engineer of the Pennsylvania Railroad. Refreshments will be served. Prof. Allen wishes the men to realize that the reception is to be very informal and largely social in its character.</p>	<p>One week from to-night in the Union, will be held the biggest, best and busiest dinner that has ever been held under undergraduate auspices in the history of the Institute. This is a board statement, and doubtless should be backed up by conclusive proof.</p> <p>An analysis of the qualifying terms in the first paragraph is therefore in order. First as to the term "biggest". The sale of tickets so far has surpassed even the fondest expectations of the committee in charge. The capacity of the hall is practically limited to 300, but already there has been a big hole made in that "300" list and it behooves any member of a professional society who has not as yet obtained a dinner ticket to secure one at once.</p> <p>Next as to the term "best." Surely no occasion could be more fitting for a monster celebration than this same fiftieth anniversary of the granting of a charter to the Massachusetts Institute of Technology. Thus it was up to the committee to secure the best possible list of speakers. A glance at the following list should convince any one with ordinary intelligence that some excellent speakers have been obtained: Mr. Frank J. Sprague, one of the leading consulting engineers of the country; President MacLaurin of the Institute; Dean Burton and Bursar Rand.</p> <p>Finally as to the term "busiest". Elaborate preparations are being made by the committee to provide for all the noise and enthusiasm possible during the banquet. Each society is promising to outdo all the others in the matter of noise, and to this end the committee is going to arrange to seat all the members of one society in a particular group.</p> <p>Remember that one week from to-night will be a big night.</p>
<p>NOTES OF SENIOR COURSE I GAME</p>	<p>ELECTRICAL ENGINEERING BALLOTS ARE OUT</p>	<p>MINERALOGY TRIP TO NANTASKET</p>	<p>G. P. CAPEN TRACK MANAGER FOR 1913</p>
<p>Game Between Options I and II Will be Umpired by Prof. Breed</p> <p>On Friday afternoon, April 7, the Senior Section Hands (Railroad option) will meet the Senior Dam Builders (Hydraulic Option) in a finish baseball battle at the Field. T. B. Parker will captain the Dam Builders and C. H. S. Merrill will captain the Section Hands, and both are ready to go battle. Prof. Breed will act as official umpire and he agrees to be fair and impartial.</p> <p>The challenge appeared some time ago and was couched in terms warranted to dismay all but those of the stoutest heart, but the reply was equally fierce. Sparks will surely fly when these blood thirsty pirates get together.</p> <p>Dr. George R. Parkin, secretary of the Rhodes scholarship fund says: "Politics is the chief difficulty in securing young Americans for Rhodes Scholarships. The vice of American politics in Rhodes Scholarships is the idea of passing the thing around."</p>	<p>Yesterday, the ballots for officers of the Electrical Engineering Society for next year were issued. All ballots must be signed by the voter, and none will be counted unless the dues are paid. Dues may be enclosed in the ballot envelope. The polls will close April 8, at 4.15 P. M.</p> <p>The nominees are: For President, J. L. Barry, 3d. H. H. Brackett; H. W. Hall. For Vice President, L. T. Cummings; N. A. Hall; and H. D. Kemp. For Secretary, J. A. Cook; H. M. Foley; and B. H. Morash. For Treasurer, D. E. Bent; T. D. Bond; T. B. Lawler; and J. S. Selfridge.</p> <p>Barry has been on the Institute Committee for two years. Hall is now Business Manager of THE TECH, Kemp has been a Show principal, is on the Prom Committee, and was President of his class during the Freshman year. Bent is Treasurer of Technique and has been in the Show. Lawler has been in the Show and was recently connected with THE TECH.</p> <p>Harvard has established a college course in printing. The course includes lectures on the history of the bookbinders' art, in addition to practical work.</p>	<p>Description of Various Formations Observed by Party.</p> <p>At 1.45 P. M. on Monday, the Miners, with Dr. Jaggard in charge, took a trip to Nantasket.</p> <p>At one end of the beach, before a large mass of rocks, Dr. Jaggard called the party to a halt and directed them to observe a volcanic series of igneous rocks dipping south, which contained tuffs, granites, and flows,—the topmost being a conglomerate series. In many of the cracks in the rocks, prehnite and epidote was observed. The presence of these substances gave a mass a greenish appearance.</p> <p>Passing down the beach to the East, Dr. Jaggard entered on a discussion on wave motion pertaining to the formation of ripple marks. Numerous dikes cutting up the country in several directions were encountered. The main characteristics of these dikes are their extreme length, parallel walls, columnar, jointing, and selvage along the zones of contact with the neighboring rock, and its cross cutting effect.</p> <p>As the party proceeded down the beach, the conglomerate was noticed to become coarser and coarser. Beside this coarse conglomerate, there were very large rocks, moulded by the waves and offering future material for the formation of conglomerate. These are characterized by their shape, smooth elliptical profile, and very fine composition.</p> <p>The party proceeded homeward on the state highway. On looking for the main mass of conglomerate, several members of the party were lost, but they were finally encountered on continuation of the trip to the station. A football was found and the party indulged in football practice, Dr. Jaggard taking in the fun.</p> <p>All tired out the party reached the station and impatiently waited until the homeward bound train finally arrived. They rushed into the train, then played cards and sang Tech songs until the train pulled into the South Station at 6.30.</p>	<p>At the meeting of the 1913 Executive Board yesterday, G. P. Capen was elected track team manager. Capen has played football and basket-ball on his class teams during the last two years. He is on the business staff of THE TECH.</p> <p>The Board also decided that 1913 should do a stunt Field Day that would cause the spectators to take notice. They also announce a possible assessment on all class members unless more dues are paid up in a very short while, as the class is deeply in debt.</p>
<p>CALENDAR</p> <p>Send all notices for calendar to E. W. Taft 1913 Institute Committee at the Cage.</p> <p>Wednesday, April 5 4.15—1913 Base Ball Practice—Field. 4.15—1913 and 1914 Cross Country Practice—Field.</p> <p>Thursday, April 6. 5.00—Technique Board Mtg.—Union.</p> <p>Friday, April 7. 1.30—House Com. Mtg.—Cage. 4.15—1913 Baseball Practice—Tech Field. 4.15—1913 Technique Electoral Com. Mtg.—27 R.</p> <p>Saturday, April 8. 2.00—Orchestra Rehearsal—Union. 3.30—1913 1914 Cross Country—Field 8.00—Cosmopolitan Club Mtg.—Union</p>			

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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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.

WEDNESDAY APRIL 5, 1911

In the communication published to-day, there is a statement that THE TECH was wholly unauthorized in saying (as was done last Saturday) that names of delinquents would be published after April 17th. THE TECH can hardly be held responsible, however, as it must of necessity rely on its informant in matter of such a nature. It is probable that he who gave the news to THE TECH was himself under a misapprehension and unauthorized by the Executive Committee

DECORATIONS FOR

THE DINING ROOM

Plan Elaborately for Adornment During Congress Next Week

The management of the Union Dining Room has made a number of distinct improvements in the Dining Room recently. Perhaps the most important of these is the introduction of vases of flowers on the two rows of tables on the East side of the room, which make those tables much more attractive. The flowers are changed daily by a prominent florist and thus are always fresh and are different every day. Another pleasing innovation is that of music. A student pianist plays every day at lunch and at dinner; besides the two evenings a week a four piece orchestra plays. It is planned to decorate the Dining Room quite elaborately in honor of the Congress of Technology next Monday and Tuesday. A very great effort is to be made to show this phase of the student' life at its best advantages to the visiting Alumni.

The receipts this fall for football at Yale were about \$70,000. The Harvard game alone amounted to \$34,000.

Bucknell undergraduates have inaugurated a series of college "sings" for an evening in the middle of the week just at dusk.

COMMUNICATION

To the Editor of *The Tech*:

The communication of "T. I. M." in yesterday's *Tech* seems to call for an explanation. The communication had to do with the posting of the names of those 1914 men whose dues are almost seven months over due, which T. I. M. believes is "co-ercion". The following statement of conditions may help to explain the matter.

The efforts of the treasurer and the appeals made in former class meetings have resulted in the collection of just about half the class dues. The amount collected is not even sufficient to pay the one item of Field Day expenses. The class has asked for various things, such as a baseball team, a Freshman Theatre party and supper, and other things each of which would not require a large outlay. Like the baseball team, so also the cross country squad needs a small sum of money which is not available. With such track material as 1914 has, this seems too bad.

At the officers' meeting last Friday the Executive Committee was made a committee of the whole to assist Treasurer Owen in the collection of dues. The members of the committee have promised to give their time and energies to this work until it is completed. The suggestion was made at the meeting that the names of delinquents be posted. It was decided however, to use this only after all other means had been used. The Statement in Monday's *Tech* to the effect that on April 17th, the names would be posted was, so far as the 1914 Executive Committee is concerned unauthorized, since no such date had been set. It seems to go without saying that if all efforts prove futile that the names of those not paying dues shall at least be known to those members of the class, who have contributed their share to defray class expenses.

In "T. I. M."s communication the objection was brought that some men in the class were starving and actually could not pay the \$1.50 which they owe the class. There is room for doubt as to that. At frequent intervals, when all men in the class are suddenly told to buy some text book of which they did not know at the beginning of the year, they manage to get the money somewhere, somehow and pretty quick at that. The class treasury, it seems, might be remembered on such occasions. However, if there be any who are in such distressing need, that they must disregard their class, it such will let the treasurer know of the fact, their names will not be published, should that method be resorted to.

There is no desire on the part of the Executive Committee to "co-erce". Field Day and other Tech traditions make certain expenditures necessary to uphold the honor of the class. For this reason the class votes to pay certain class dues. And in taking their offices the officers of the class promise to collect this money and use it as economically as they can. The present effort to collect the dues is only carrying out this plan.

T. K. Krueger.

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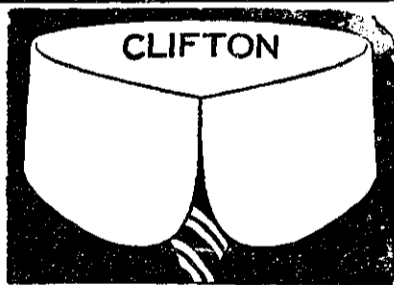
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CREW PRACTICE
THIS AFTERNOON
Men will now Prepare for Probable Race with Navy Later.

At the crew meeting yesterday afternoon it was announced that there would be a race with the Navy if it could be possibly arranged and that the likelihood for such a race was considerable.
The crew management has made arrangements to row from the Riverside Boat Club this afternoon, and the men are to report at Metcalf's this afternoon at 4.00 o'clock with their rowing clothes.
In view of the prospective race with the Navy the crew will have to bend all its energies to developing a first boat only. It will, of course, be absolutely necessary that all the men be on hand at the posted time, as it takes quite a while to get to the Riverside Boat House.
The following men are to report: Upham, Ruby, Whittlesey, Barnes, Herreshoff, W. N. Gere, E. C. Gere, Sweet and Adams. Also any man wishing to try for the position of assistant manager.

SOPHOMORE—FRESHMAN
CROSS COUNTRY
Race over Tech Course Next Saturday
Some Names of Runners

Next Saturday the freshman and sophomores meet in their cross-country race. The teams leave the Back Bay Station at 2.35. All men of either class, who wish to, may enter the run.
The men most likely to score for '13 are Capt. Macdonald, C. W. Brett, R. D. Bonney, M. Font, A. S. Milliken, G. P. Capen and Herbert.
The '14 men are, Capt. G. C. Thedd, A. T. Nye, K. S. Johnson, E. M. Newlin, Wilkins, Lee, Sutherland, McCullough and Turner.



As there has been considerable question about the seating arrangements at the Prom, it may not be amiss to outline again the plans of the committee. Each man who has paid his subscription will receive, about a week before the Prom, together with his dance program, his seat number. This number refers to the seat upon the ball-room floor of the Somerset. Each man when making up his dance final order should take down the seat number of each man with whom he has a dance. The man with the higher number is to look up the man with the lower.

If you have any questions to ask about the Prom, come around to the Union some noon and talk with the committee. That's what the Prom desk is for, your information and benefit.

The financial success of the Prom, is now assured and our efforts are wholly directed to making it the greatest social event of the college year. You can help make it such by signing up now.

All the prominent men in Institute affairs are going to the Prom and you want to get into line now. Sign up, start your dance order, and get into the spirit of the thing. There will be no dead ones at the Prom this year.

Freshmen and Sophomores should make an especial effort to come to the Prom this year. It is as much for them as for Juniors and Seniors.

A subscription is being taken among the student body at Cornell for the purpose of buying a motor for the Aero Club.

The classes of West Virginia State have abolished class colors and hereafter all students will wear only the college collors.

An effort is being made by the Senior class at Illinois to abolish examinations in the second semester of the Senior year.

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LANGUAGE

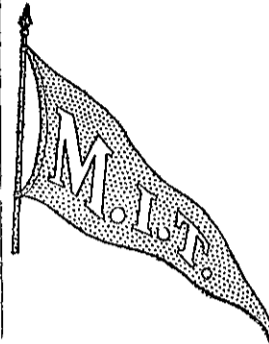
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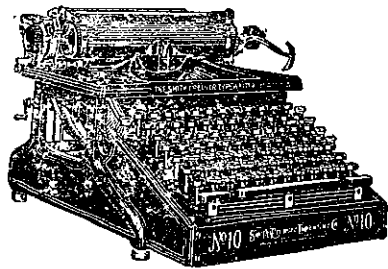
THESES

Theses will be due Monday May 22.
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