

# THE TECH

VOL. XXXIII. NO. 140.

BOSTON, MASS., SATURDAY, FEBRUARY 28, 1914.

PRICE TWO CENTS

## BEAT-EM-TO-IT

Final arrangements as to the disposition of the crowd that has signified its intention of coming to the dance that is to follow "Yish-ka-bibble" on March 7 have been made. Not only have they been made but they offer such a wonderful opportunity for dancing in the Union that it is certain that this announcement will amaze and astound those who are wise enough to read it.

It has been decided to use not only the upper part of the Union with its spacious accommodations for such a party as this but to open up the Union dining room. Under this arrangement a much larger crowd can be taken care of than could possibly be squeezed into the upper part of the building.

Therefore there have been put on the market approximately one hundred more tickets at 75c each which will give admission to both the dance and the vaudeville. These have been distributed among the overworked ticket-sellers and they will be around in full force this morning trying to supply the demand that they have been forced to hold off the past few days. But still it is important that the students get busy and procure their tickets as soon as possible for even under the present arrangement it is expected that there will be some who will be forced to go without because of the great demand that has been evidenced for these blue tickets.

There is one other important point in connection with the sale of tickets that should be called attention to. Now that there are more of the blue tickets it will be possible for those who have purchased white tickets rather than miss the whole performance to exchange these tickets upon the payment of 25c each for admission to both "Yish-ka-bibble" and the dance. There will be some one in the Union at each lunch hour next week who will be able to provide such tickets in exchange. Not only

(Continued on Page 2.)

## 1912 SUMMER CAMP

### Course I Campers of 1912 Will Have Reunion Tonight.

All the men of Course I who were at the 1912 summer camp are expected to be at the reunion supper tonight. Steward Colton will serve one of his regular fifty-cent dinners to the men in rooms A and B of the Union, starting at six o'clock.

The meeting is to be all informal, and every man will be expected to add something to the efforts of the minstrel men in entertaining. It is hoped that all the professors and instructors who were at the camp will come out tonight too.

## LIMITED EDITION OF 1910 TECHNIQUES

### To Be Placed on Sale Monday—Price Within Reach of All.

The 1910 Technique contains over four hundred pages of good live, interesting reading and pictures of things that are just as important to you as they were to 1910. Every man who is in the Institute now will want something that will bring back remembrances of the times spent in the different parts of the buildings and shops. The 1910 Technique will do this as nothing else can. It has an especially good set of photographs of everything now in the Institute, and these are practically the only pictures of the Institute that can be obtained. If advantage of this opportunity is not taken, you probably will never be able to do so again.

The athletic part of 1910 Technique is very well illustrated with photographs of the different meets and events during the year. Pictures of all the track events and the managers of the different teams are really fine.

As the number is so limited and the price so low, they will be placed on sale Monday, at one o'clock in the Union and Rogers building, so as to give everybody an equal chance. Be on time if you want one, and don't take any chance of losing out by being late.

The Committee appointed by the Institute Committee to take charge of these 1910 Techniques after seeing the excellent condition of the books and the valuable contents decided to give everybody a chance to obtain one so the price will be fifty cents, although it originally was two dollars.

## TECH SHOW REHEARSAL

At two o'clock this afternoon there is to be another rehearsal of the Tech Show cast. The men are expected to have the first act well learned. If this goes well they are to start on the second act.

At the chorus rehearsal yesterday two more of the Show songs, "My Broadway Queen" and "At the Union," were given out. There will be no more chorus rehearsals until next week Tuesday. The words of the songs which the men have already received must be learned by that time.

## WRESTLING TEAM

The picture of the wrestling team will be taken at Notman's, 3 Park Street, at 1.15 this afternoon. It is absolutely necessary that all the members of the team be there on time.

## FAMOUS RUSSIAN MINING ENGINEER AT TECH

### Professor Henry Tschetschott Taking Special Course in Mining.

Professor Henry Tschetschott, of the St. Petersburg Mining Institute, has registered at the Massachusetts Institute of Tech for special work. His coming to the Institute is part of a general plan of the Government to educate Russians in the best places possible for positions as teachers in the home schools. Already there are at Technology two other Russians, Messrs. Penn and Ortin, who have likewise been sent by the Government.

Mr. Tschetschott is a native of St. Petersburg though of Polish extraction. He graduated in 1900 from the Mining Institute in that city with the degree, M. E., and since that time has been mining expert and is now full professor of mining engineering in the Institute. His degree entitles him to practice his profession and become superintendent of mines without special examination or license.

In answer to the question, why Technology is selected for the purpose of instruction rather than some one of the excellent schools on the Continent and nearer the home country, Mr. Tschetschott says plainly that the courses in America are broader. Each country has its special kinds of mining work, and the college courses follow these more or less closely. In the United States the expanse is so great that all kinds of work are included. The specialties that this Russian professor is taking up are among those for which Tech has been notable, including

(Continued on Page 2.)

## COURSE IV EXHIBIT

The designs submitted by the Sophomore class in Architecture have been hung in the exhibition room on the fourth floor of Pierce. The present problem was "A Loggia in the Doric Order". Over forty drawings are displayed.

## FACULTY NOTICE

The list of candidates for the degree of Bachelor of Science 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 this year should consult me if he has not been notified that his name is on the list.

A. L. MERRILL,  
Secretary.

## CIRCULATION MANAGER COMPETITION OPENS

### Contest Open to Lowerclassmen—Chance for Business Experience.

Candidates for Assistant Circulation Manager of The Technology Monthly will meet the Circulation Manager, Homer Rogers, Wednesday, March 4, at 4.15 in the Upper Office of THE TECH. The duties of the competitors will at that time be outlined and actual work will begin at once in order that a permanent Assistant Circulation Manager be chosen before the second issue of the Monthly which will appear in April.

The competition is open to all underclassmen, both Sophomores and Freshmen. The position is such that the actual work is slight in comparison with the benefits and business experience to be gained. As the Monthly has gone to press, more time can now be given to permanent organization and consequently competitions for other positions will open in the near future. It is possible that more than one Assistant Circulation Manager will be chosen at the close of the competition.

## HOCKEY GAME

This afternoon the Tech Hockey team will play the East Side Hockey Club of Providence, R. I., in Providence. Unless word is received, that there is no ice, the team will leave the Back Bay Station at 1.04. If the game is called off a notice will be posted in the Union by 12.00 o'clock. The following men will take the trip: Captain McLeod, Fletcher, Sawyer, Cochrane, T. C. Jewett, Toye, and Keeler.

## LIBRETTO WRITING

Mr. Carb's class in Libretto Writing will meet for the first time on March 11.

## WEATHER

For Boston and Vicinity: Fair tonight and Sunday; light to moderate westerly winds.

## CALENDAR

Saturday, February 28, 1914.

- 1.15—Wrestling Team Picture. Notman's.
- 2.00—Cast Rehearsal Meet. Gym. Union.
- 6.00—Course I D. Mar. 4. and B, Union.
- 8.00—Wrestling for Asst. Circulation Monthly, Upper East Weymouth.
- Monday, March 1, 1914.  
7.15—Hockey vs. Revere H. S. Basketball. Metropolitan Club, 8 Engr. C. Building of Comb. Musical.
- 7.45—E.

# 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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(Daily except Saturday)  
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Managing Editor.....5.00 to 6.00 P. M.  
Advertising Manager.....1.30 to 2.00 P. M.  
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SATURDAY, FEBRUARY 28, 1914.

## IN CHARGE OF THIS ISSUE.

Editors—B. N. Stimets, '16, and W. F. Johnson, '17.

As not a little criticism is being expressed of the plan to sell the left-over 1910 Techniques, it may be well to put both sides of the case before the student body. One argument against this procedure is possible effect on the sales of Technique 1915. The Board of the latter do not consider this serious, even taking into account the merely nominal price, since the book dates back so far as to cover entirely different ground. Another argument is that of unfairness to original buyers. This seems altogether fanciful, since if any of the latter are still in the Institute they have already received their money's worth from the book.

On the whole, this seems a highly advisable way of disposing of an otherwise waste product, and making some of the money needed so badly by athletics.

The arrangements for extending a class at the Yish-Ka CLASS will bring joy to the disappointed ones.

TO RENT—Doubises to be such a for Tech students. If of those at the furnished, continuous socially inclined Huntington Ave. if the num-

WANTED—Track men part. Incl-Track stories, Basketball be made Basketball stories, etc., absence TECH. Leave note at Cage. Best, Athletic Editor.

## FAMOUS RUSSIAN MINING ENGINEER AT TECH

(Continued from Page 1.)

ore dressing and treatment of copper and gold. Ore dressing is a new department in Russia and yet a most important one, and American methods are the ones they need for the mines of the Lena district and Kamschatka, which resemble those of Alaska and the Yukon; while in the Ural and the operations along the edges of Mongolian deserts and those on the Turkestan border are paralleled by the mining work in the West where desert conditions also prevail.

Mr. Tschetschott has been professor for three years, and has seen the growth of mining education in his home country. It is true that the Empress Katrina school is one hundred and fifty years old with attention to technical instruction in its courses, but mining is a very recent addition. It is only a few years ago since the school was established at Tomsk, Siberia, where Professor Tove has made an excellent name for himself, and some of whose graduates have come to Boston, and more recent is the school at Warsaw. There is evidence now of a much wider appreciation of the need for technical instruction in mining, and at the moment there is projected a fine institution at Jekaterynoslaw in South Russia, as the forerunner of still others.

Professor Tschetschott on finishing his present course will make a trip through the Northwest, visiting Michigan, Canada and Alaska, getting to St. Petersburg in time to take up his three months of lectures in the autumn, after which he is to return to Tech for a second special course, following which there will be a visit to mining works in other parts of the country, including Colorado and New Mexico. In testimony of the value placed by the individuals on instruction and observation in this country it is fair to say that the travel will cost this student something like five thousand dollars more than his allowance from the Government, but he feels that his projected plans will place him at the head of his profession in his own country.

## OFFICERS' CLUB

Major Cole to Speak at Public Meeting Next Tuesday.

The Officers' Club will hold its first public meeting in the Union next Tuesday at 7.30. Major Cole has consented to speak on the subject of "Extended Order".

His talk will include information of importance to the officers and men of the regiment, as the skirmish work is soon to be taken up at drill. He will probably give some points on practical combat principles also. All interested in military work are invited to attend.

At this meeting Colonel Hamilton will make a financial report on the Military Hop held recently.

## N. E. CHAMPIONSHIPS.

Tech Scores 11 Points—O'Hara Wins 40 Yard Dash.

In the New England Amateur Championships held last night under the auspices of the A. A. in the Mechanics Building, Technology men secured 11 points. F. P. O'Hara was the only person to win a first place and that was in the 40-yd. Senior dash.

About one-third of those entered showed up, which was rather discouraging.

The men winning points were as follows:

40-yd. Senior dash—F. P. O'Hara, 1st, time 5 sec.

40-yd. Junior dash—Wilkins placed in heat but not in final.

40-yd. high hurdles—T. H. Huff, 3d, time 6 2-5 sec.

Mile run—H. F. Benson, 3d, time 4 min. 38 3-5 sec.

2-mile run—F. L. Cook, 3d, time 9 min. 34 sec.

Running high jump—W. A. Sullivan, 2nd, height 5 ft. 8 3-8 in.

## GLEE CLUB CONCERT

Last evening the Combined Musical Clubs gave a very enjoyable concert at the Congregational church at Holliston. The men left Boston at 6.20 on a special car, getting into Holliston in time to dress before the concert, which began promptly at 7.45.

All the numbers were well received but perhaps "The Spirit of '61," by the Combined Banjo and Mandolin Club, together with the Glee Club octette and the baritone solo, "Asthere," by Donald Dunn, received the greatest applause.

Tabbutt led the Glee Club and did exceptionally well.

## BEAT-EM-TO-IT

(Continued from Page 1.)

these but other tickets will be on sale at this time so that anyone who desires to buy may be enabled to do so.

And it would be advisable that whether a man wishes to get blue or white tickets that he do so at once. The tickets have gone so fast that it will be possible to sell only a few more tickets if the capacity of Huntington Hall is not to be exceeded. It is intended to keep the sale of tickets within the capacity of the hall so that everyone may be assured of a seat. Therefore it is advisable that no one delay longer. The affair is only a week off now and it is certain that there will be a big demand for tickets in the near future.

With the opening up of the additional room "Yish-ka-bibble" promises to become the biggest student affair that has ever been held. More people will be accommodated and the students will come into closer touch with one another than has ever been the case before. Last year's "Was Ist Los" attracted wide attention and brought forward a large number of people but the additional dance this year promises to draw a much bigger crowd.

It is only hoped that sufficient

## THE Technology Union Dining Room

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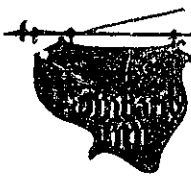


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funds will be raised to be of material aid to the Athletic Association. If the students will only pull together and pack Huntington Hall on March 7 this will be the grandest affair that the Institute has ever known. A financial success is already assured. Let's all make it something more—an affair to go down into history as record-breaking in its field.

**BOSTON OPERA COMPANY LEAVES FOR FRANCE**

**A Ten Week Season in Opera To Be Given at Paris in April.**

The Theatre des Champs Elysees, aside from the opera the newest and handsomest playhouse in Paris, has been leased by the Anglo-American operatic syndicate; and there, on April 20 or 27 next, the Boston Opera Company under the direction of Henry Russell, its Managing Director, will inaugurate a ten week season of opera in the French capital. The backers of the enterprise are men internationally famous in the worlds of finance and opera: Otto H. Kahn, chairman of the Board of Directors of the Metropolitan Opera Company, New York; Eben D. Jordan, founder and president of the Boston Opera Company; Sir Ernest Cassel, the London banker; Baron d'Erlanger, a composer of operas as well as a Parisian of great wealth; Lord Grimthorpe of London, a member of the foreign advisory committee of the Boston company; Lord Rothschild, of the famous banking family; and Harry V. Higgins, director of the Royal Opera, Covent Garden, London.

The Boston company will take over its chorus and minor singers, but not the orchestra, for there as here the Musicians' Union forbids the importation of foreign orchestras. The principal artists will be drawn from the Boston, Covent Garden, Metropolitan and Chicago companies, and among them will be the following vocalists, of world-wide fame: Mmes. Frances Alda, Maria Barrientos, Lina Cavalieri, Emmy Destinn, Louise Edvina, Mary Garden, Frieda Hempel, Nellie Melba, Alice Nielsen, and Luisa Tetrazzini, sopranos; Mmes. Margari-ta d'Alvarez and Margarete Metzener, contraltos; Edoardo Ferrari-Fontana and Giovanni Martinelli, tenors; Pasquale Amato, Vanni Marcoux and Antonio Scotti, baritones, and Andrea de Seguro, basso.

The conductors will be Felix Weingartner, Roberto Moranzoni and Arthur Nikisch. There, as in Boston, the stage will be under the supervision of Joseph Urban; and for all the works to be produced the mountings will be taken over intact.

The repertory will be confined to German and Italian operas, such as "Die Meistersinger," "Tristan und Isolde," "Don Giovanni," "The Secret of Suzanne," "Pagliacci," "Madame Butterfly," "Tosca," "La Boheme," and the new Montemezzi opera "L'Amore dei Tre Re," with which it is planned to open the season.

As the seating capacity of the Paris theatre is some 800 less than that of the Boston temple of opera, the earning power will be correspondingly lower; and to offset this loss in revenue, Director Russell has arranged a special schedule of prices which will be effective for all important premieres and debuts. For these occasions \$10 in American money will be asked for places on the orchestra floor, but for the regular performances, the best seats will sell at \$5, as they do in Boston.

The Boston director and his colleagues have every confidence in the success of their enterprise. In the

first place, they point to the fact that never before has an attempt been made so likely to appeal to the British as well as the American colony in Paris. The directorate board representative of both nationalities, and an ensemble of artists admired and known in America and England, should arouse the keen interest of American and British alike. There will also be the German and Italian colonies, exiles eager to hear opera in their mother tongues.

Save when the Metropolitan Company gave a short season at the Chatelet Theatre a few years ago, no such constellation of operatic stars has been gathered together in Paris, in any former organization. Several of the artists will be entirely new to the French public, and others, such as Mmes. Melba and Tetrazzini have been heard there but rarely of late years, and a royal welcome can be assured them. From a scenic viewpoint, the Boston productions will be something of a revelation, and if present plans do not miscarry in some unforeseen fashion, a season will result which not only will give great prestige to the Boston Opera Company, but to the city of Boston as well.

In order that sufficient time may be given for rest and preparation after the Paris engagement, the coming season in Boston will be shortened from 18 weeks to 12; and instead of reopening in November, as in former years, Jan. 4, 1914, will be the next opening date.

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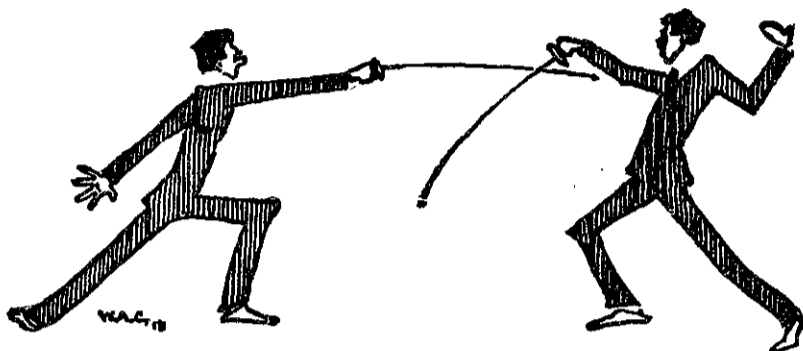
**WANTED**—Track men to report Track stories, Basketball men for Basketball stories, etc., for THE TECH. Leave note at Cage for L. E. Best, Athletic Editor.

**FOUND**—A copy of Storm's "Geschichten aus der Tonne" was left at the Tech Office last Saturday noon and was turned over to Mr. Smith, Supt. of Buildings and Power at whose office it may be obtained by the loser.

**NOTICE.**

If there are any members of the Technology Aero Club now in the Institute would they kindly communicate with J. M. Livermore, '15, by leaving their names at the Cage.

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SAT., 2 to 4:40. LAST TIME THIS SEASON AND LAST APPEARANCE OF MARY GARDEN. MONNA VANNA. Cast same as Monday.

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WANTED—Track men. Track stories, Basketball 328 Basketball stories, etc., Tech. Leave note at Cage Best, Athletic Editor.

**NAVAL ARCH. SOCIETY**

**Events of Term Outlined at Meeting Yesterday.**

There was a meeting of the Naval Architectural Society yesterday afternoon in room 32 C. Matters of business were taken up and several members of the Sophomore Class were taken into the Society. President Todt announced that there would be a meeting every other week, notices of which would be published in THE TECH and on the bulletin board in 31 C.

A very interesting series of trips is to be taken during the term as well as some talks on the side lines of the business which are not taken up in the course on account of lack of time and opportunity. Among the ships to be visited are the motor ship "California", and one of the large freight steamers of the N. Y., N. H. & H. Railroad. Some of the topics which the speakers at the different meetings will discuss are: "Ship Surveying", "Principal Steamship Lines", "Cost And Estimates", "The Organization of the Working Force of a Shipyard".

**RIFLE TEAM SCORES.**

The match shot against Michigan Aggies Tuesday showed improvement over the previous week's shooting by a substantial margin. The team is now climbing rapidly.

The scores for the match were as follows:

|                | Total |
|----------------|-------|
| Haslam (capt.) | 189   |
| Casselman      | 186   |
| Dunn           | 185   |
| MacDonald      | 184   |
| Brandt         | 184   |
|                | 928   |

A re-entry match has been opened to run till Tuesday, March 24th, with a prize of a Stevens Target pistol to the man who shoots the best string of 10 shots offhand at 50 feet. A nominal entrance fee is charged, re-entry unlimited.

Rapid fire practice will begin next Tuesday.

**ELEC. ENG. SOC. MEETING**

On Monday evening the Electrical Engineering Society will meet in the Union at 7.45 to hear Mr. Gerad Swope, M. I. T. '95, of the Western Electric Company who will speak on "The Relation of Engineering to the Sales Department". Mr. Swope is head of the Sales Department of the Western Electric Company and is very well fitted to speak on the subject. Members of the other Engineering societies are cordially invited to attend.

**DUAL CLASS MEET**

1916 and 1917 To Clash on Track Next Tuesday in Gymnasium.

The annual dual meet between the Sophomores and Freshmen will be held next Tuesday evening in the gym at eight, if the present arrangements are put into effect. An admission of 25 cents will be charged to help defray the expenses of the 1917

team on its trips. The list of events will be as follows: 20 yard dash, 25 yard hurdles, quarter mile, half mile, mile, high-jump, pole vault, and shot put.

**ENGINEERING AND SCIENTIFIC NOTES**

A Swedish inventor has devised an apparatus for storing heat which consists of a suitable coil of resistance wire placed in a heat absorbing material. Surrounding this is a layer of heat insulating material with a damper at the top which may be opened when it is desired to radiate any of the stored up heat energy. To facilitate this radiation there is a system of air passages through the heat storing materials. This apparatus, further details of which are not announced, is designed to consume the surplus of power plant energy during periods of off peak loads. An experimental plant measuring 40 by 25 by 15 inches showed a storing capacity of about 25,000 kilogram calories while the internal temperature of the magazine was in the neighborhood of 600 degrees Centigrade.

A new type of rotary power pump has recently been put on the market which differs from others of the same capacity in that gear style cams have been substituted for three toed cams and the gears on the end of the cam shafts have been eliminated. These pumps are mounted on cast iron bed plates and are fitted with tight and loose pulleys for belt drive. The suction connection is made within the base directly beneath the case and is reached through hand holes in the base. Size number one, having a capacity of 25 gallons at 225 revolutions per minute, has two discharge openings, and size number two, 50 gallons at 225 revolutions, has three openings one tapped for pipe, one threaded for hose coupling, and the other fitted with an interchangeable blank flange.

During the past year the Westinghouse Electric and Manufacturing Company has undertaken a number of contracts for hydro-electric developments in Alaska which will do much to improve the mining facilities in that region. The largest of these proposed units is a water turbo generator for the Alaska Treadwell Gold Mining Company having a capacity of 2350 kva. and driven at 300 r. p. m. by a Pelton water wheel. This will give the company about 3000 additional horsepower. A 50 kw. motor generator exciter set is also included in the contract. A number of other contracts for the installation of units varying from 200 to 1100 kva. have also been made.

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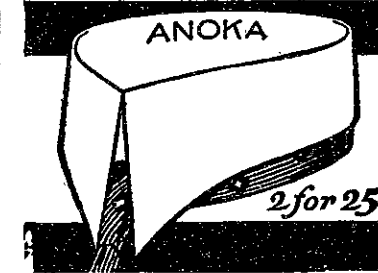
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