

THE TECH

VOL. XXXIII, NO. 127.

THE TECH, BOSTON, MASS., FEBRUARY 11, 1914

PRICE TWO CENTS.

T. C. A. ELECTION AND SOCIAL FRIDAY

Vacancy of Presidency To Be Filled—Nominations Now Open.

The Technology Christian Association will hold an election next Friday, February 13, 1914, for the office of president. Mr. Miles E. Langley, '13, resigned his position as president of the association last term, and the coming election will take place to fill the vacancy, and any others that have been made in the mean time.

Any member of the Association, according to the Constitution, may be nominated, and the nominations are to be signed by at least five other members. These nominations must be filed with the Secretary of the T. C. A., at his office at once. The election will be held Friday, and the ballots will be obtainable at the cage. Up to the present time, it is known that C. G. Norton, '15, Vice-President of the Association, is a candidate for the Presidency.

On the evening of the day of election, the T. C. A. will hold a social in the Union. This will be the first social to be held this term, and since it is so early in the present semester, the T. C. A. hopes that a large number of students will be able to attend. The Social Committee, of which J. A. Ball, '15, is chairman, has been busy arranging a program, and has already met with good results. Professor Bates of the English Department will be present and will read his subject, and the further details of the program will be announced later. The Social Committee gives its assurance that refreshments will be provided. The social will probably begin at 8 o'clock.

1916 TECHNIQUE BOARD

Ballots Must Be Signed To Be Valid.

The 1916 Technique Electoral Committee Ballot Committee wishes to notify all the members of the Sophomore class that a slight error was made in the printing of the ballots, in that no space was marked out for the signature of the man marking the ballot.

This does not mean, however, that they are not to be signed, for no ballot is valid unless signed.

Attention is also called to the fact that the time limit is 4 o'clock February 14.

CHEMISTRY SOCIETY

All men who wish to join the Chemistry Society should apply for membership now in order to get their names in Technique. Second, third and fourth year students taking either of courses V, X, or XI, are eligible. The dues are \$1.00, payable with application for membership.

MEETING OF MEN OUT FOR TECH MONTHLY

Outline of the First Issue of New Monthly Presented to Candidates.

Men interested in the New Monthly attended the meeting held in the lower office of The Tech yesterday afternoon and detailed information was given by the department heads. The management wishes to state further that men are needed for the Advertising and other business departments. Anybody who is interested in the departments of advertising, circulation or business should report at once. In order for the new monthly to be a success, more advertising must be obtained. It is known that there are men in the Institute, especially in the Freshman and Sophomore classes, who can get ads, and it is upon those men that the life of the Monthly is dependent. Unlike other lines of business, experience is not necessary. Men applying for positions on the staff of the business departments should leave their names and addresses in the Tech office and address communications to "Managing Editor of New Tech Monthly."

SENIOR PORTFOLIO

Seniors Requested to Sign Up As Soon As Possible.

The Senior Portfolio Committee will have a table in the Union this noon where those members of 1914 who have not yet had their pictures taken for the Portfolio may make appointments for a sitting. All appointments for sittings must be made with the Committee and not at the photographer's.

Nearly a third of the class have had their pictures taken already and it is expected that the photographic side of the work will be completed within two weeks. It is necessary that men return their proofs to the photographer as soon as possible after having made a selection of the one they desire to go into the year book. It is desirable that a dark suit be worn when the pictures are taken.

As stated before, all sittings are free. The Committee has, however, obtained very low rates for the class and those who want to get pictures may take advantage of the reduced prices which were published in The Tech yesterday.

CHESS CLUB

On Thursday afternoon at five o'clock in the Union a meeting of the executive committee of the club will be held. All the members of the committee are requested to be present as plans for this term are to be talked over and arrangements for coming tournaments are to be made.

TECHNOLOGY PLAYS COLUMBIA FRIDAY

Rival Team Has Beaten Cornell—New Plan for Seat Sale Adopted.

The Technology Hockey Team will meet Columbia University at the Arena next Friday evening in what promises to be a lively contest. Columbia's strength is measured by the game in which it defeated Cornell by a score of 2-0. Cornell, though not as good as in former years, has a very creditable team.

Columbia has a series of big games to play this week. On Wednesday evening she will go against Dartmouth, which ranks close to Harvard among the colleges, and on Thursday she will play St. Paul's School. The latter, though only a school team, ranks in the same class as the colleges, so the men from Columbia will have some hard work before they meet our players.

Eichorn, who played on the Institute team last year, but who has not been out this season, will play in the game Friday. He is expected to prove a valuable acquisition.

The management has arranged for a new plan of selling the seats for this game. The Arena is to be leased for this occasion, so that there will be an opportunity for making a profit on the seats. The surplus will be used by the team, and is expected to furnish money for paying a coach. The price of tickets will be reduced, in the hope of inducing a large crowd to come. Tickets are on sale in the Union.

The lineup will be as follows:
Technology Columbia
Lowengard, g. . . . g, Millbank (Capt.)
Eichorn, p p, K. Reynolds
Cochrane, c p c p, F. Dolbeare
MacLeod, r r, T. Webb
Winton, c c, W. Todd
Sawyer, l w l w, H. Miller
Fletcher, r w r w, S. Miller
Practice will be held Thursday at 7 A. M. at the Arena.

TECH SHOW POSTERS

Competition Closes Today at 4.30—All Drawings Due.

The posters for the 1914 Tech Show, "A Royal Johnny," are due this afternoon at 4.30. All posters intended for the competition should be brought into the Tech Show office at that time. Those posters which are not all finished now should be in also in order to obtain credit for the poster in the competition.

About twenty men reported at the opening of the competition for the prize of Ten Dollars offered for the best poster idea. The few best ones will be returned to the authors and their work finished up for the final selection. Two posters are already in.

CANDIDATES FOR THE TECH MEET TODAY

Advantages of the Positions To Be Outlined—Many Men Needed.

All Freshmen and Sophomores (not to mention upperclassmen) who have any literary talent or any ambition in newspaper work, are requested to meet in the Tech office at 5.00 p. m., Wednesday. Short talks will be given by the men who are at the head of the various departments, outlining the work for the rest of the year.

The chief benefit obtained from working on the paper is the number of men it brings one in contact with. There is no surer way of increasing one's acquaintance with men worth knowing and thereby getting into line for various positions of responsibility and honor at the Institute and in after life.

The Tech needs your services and it feels that it can repay them tenfold. Places are open in all of the departments so that it is possible for a man to suit his tastes in selecting the one he wishes to go into.

GLEE CLUB REHEARSAL

The last rehearsal of the Glee Club to be held before Friday's concert will take place at five this afternoon in the Union. The coach will be present at this time. A double fine will be imposed on absentees.

The University of Chattanooga has taken up student government. The "Echo" claims that it is a matter of a little while when all the colleges will adopt this system.

CALENDAR

Wednesday, February 11, 1914.
1.00—Cosmopolitan Club Picture—Rogers Steps.
1.10—Meeting News Board THE TECH—Lower Office.
4.00—Rifle and Pistol Club Practice—First Corps Cadets Armory, Columbus Avenue.
4.30—Close of Competition for Tech Show Poster.
5.00—Meeting of Candidates for THE TECH—Lower Office.
5.00—Rehearsal of Glee Club—Union.
Thursday, February 12, 1914.
7.00 A. M.—Hockey Practice—Arena.
1.30—T. C. A. Meeting, W. T. Kniezner, speaker—Union.
5.00—Meeting of Chess Club Committee—Union.
Friday, February 14, 1914.
7.30—Chemical Society—Union.
8.00—T. C. A. Social, Result of Elections Announced—Union.
8.15—Tech vs. Columbia—Arena.
Tickets at Cage or any member of team.

THE TECH

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

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WEDNESDAY, FEBRUARY 11, 1914.

IN CHARGE OF THIS ISSUE

Editor—Ralph Millis, '16.
Associates—H. E. Lobdell, '17; E. W. Curtin, '17; W. A. Futterer, '17.

With the birthday of President Rogers drawing near why can Institute men not come together as a whole and have a second All-Technology dinner as they did last year? Surely there is no better way of commemorating the birth of this great man. It was one of President Rogers' dearest wishes to knit Technology together with a strong bond of fellowship brought about from the fact that here we are working for a common end,—we are all students, both faculty and undergraduates, in a great scientific world.

Let us come together on this day the 4th of April, as an All-Technology group, and celebrate Founder's Day for the second time.

We are in receipt of a communication dealing with a subject which is perhaps as delicate as any which could be broached at the present time. The communication is unsigned, and we are consequently obliged, according to our custom, to deny it space in our columns.

THE TECH cannot print unsigned communications. It is not necessary that the name of the sender be published, but it is necessary that we know who he is, and that the spirit in which he writes is one of good faith. In this particular case, charges are made and conditions are hinted at which are more grave than the writer may realize. That the writer is too much of a coward to stand behind his own guns, or that he is desirous of arousing or creating an impression which has insufficient basis in fact, are the only in-

ENGINEERING AND SCIENTIFIC NOTES

Science Notes.

The selection of a proper grade and quality of sand for the filtration of water supplies is an important problem for the engineer who is to construct a filtration plant and we give below the specifications which were drawn up by the U. S. Geological Survey as necessary for a satisfactory filter. After showing that clear white quartz sand is the best material the specifications continue:

"The filter sand shall be clean sand, with either sharp or rounded grains. It shall be entirely free from clay, dust, or organic impurities and shall, if necessary, be washed to remove such materials from it. The grains shall, all of them, be of hard material which will not disintegrate. The effective size shall not be less than 0.25 millimeter nor more than 0.35 millimeter. The uniformity coefficient shall not be more than 3.0. The sand shall be free from dust and shall not contain more than 1 percent finer than 0.12 millimeter, and shall be entirely free from particles over 5 millimeters in diameter. The sand shall not contain more than 2 percent by weight of lime and magnesia taken together as carbonates. In all other respects the sand shall be of a quality satisfactory to the engineer."

Gravel for the floor of filters may be broken trap rock or granite screened to the proper sizes, or gravel screened from sand and gravel banks of a sandy nature. Gravel screened from hardpan or clayey material can not be sufficiently cleaned. The gravel should not contain more than a very small amount of shale or limestone and should be washed entirely free from fine material.

Magnésite is a mineral which is ov-

(Continued to Page 4)

ferences that we are able to draw from the communication as it stands. If the sender will let us know who he is, we shall be glad to give him all reasonable freedom in our columns.

We have noticed in "The Brown and White" that Lehigh University is to give a course in philosophy to its engineering students. The course will be short, covering but one hour a week, but it will be fairly comprehensive—it will treat of such subjects as Pragmatism, Spiritualism, Materialism, Plato on Justice and Beauty, Aristotle on the Relation of God to the World—and should offer to the technical man a glimpse into that world of the philosopher which so often he just falls short of seeing. The relation of the natural sciences to philosophy is much closer than the average student is inclined to believe, as is evinced by the contempt which so many Tech men hold, or affect to hold, for it and for allied branches. Anything which will bring the young student of science to a sense of the majesty of the work which he is doing by showing him the dignity and profundity of the speculations and deductions to which it gives rise will be of no mean value in the development of broadminded men.

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FACULTY NOTICES

First year—Section 14 will recite in Chemistry on Tuesdays at 10 in 21 Lowell and on Fridays at 9 in 24 Lowell.

Third year, Railroad Engineering—Professor Breed's section in Railroad Engineering, Course I, will meet on Tuesdays at 10 in 47 Engineering A.

Fourth year—Mechanical Engineering, Course II, fourth year, sections 1, 2 and 5, will meet for Hydraulic Engineering on Tuesdays at 10 in 53 Engineering A. Section 3 will meet on Mondays at 2 in 49 Engineering A.

Fourth year, Course II—Sections in Engineering Laboratory:
Sections 1, 2, 5 Options 1, 2, 5
Section 3a Option 3, A-L
Section 3b Option 3, M-Z

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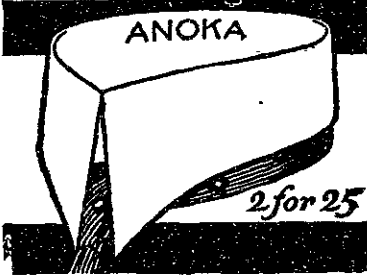
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POLICY OF THE E. E. SOCIETY CHANGED

Trips Will Be Made to Plants of a Non-electrical Character.

With the opening of this second term the Electrical Engineering Society has started upon a broader policy than it has maintained in the past. The mid-year trip which the Society took to New York and Philadelphia has shown that excursions to non-electrical plants are quite as important as those to strictly electrical plants for in the course of an electrical engineer's work many non-electrical problems arise.

Any member of the Society who knows of some place to which he thinks the Society could make a profitable trip is requested to leave the name of the place with H. B. Richmond, President of the Society, or with L. L. Travis of the Program Committee. Should he know of any man in the company who would be willing to conduct a party it would be appreciated by the officers if his name was also left. At present the following places have been suggested: Boston Elevated Power Station, South Boston; Edison Power Plant, South Boston; the Gas Works at either Everett or Malden; the General Electric Lamp Works, East Boston; the Boylston Street Subway; Boston & Maine Car Works at Billerica; Main Telephone Exchange; and the Packard Automobile Company.

Those who paid their dues for the first term only are reminded that the dues must be paid at once in order to be eligible to these trips. The dues may be paid to H. A. Affel '14, A. J. Hahn '14, or B. S. Curtis.

1916 BASKETBALL

Ten men reported for 1916 basketball practice at four o'clock yesterday in the Gym. Two teams were picked from those who reported and a lively scrimmage resulted. The men were given a good drill in shooting and passing and showed good form considering that no practice was held last week.

Captain Dewson is endeavoring to get a game for some night during the next two weeks as one of the scheduled games has been canceled.

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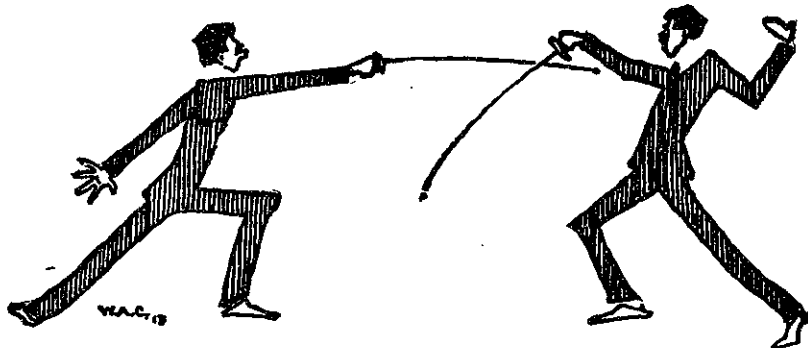
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WEDNESDAY, 8 to 11.25, **CARMEN**. D'Alvarez, Nielsen, Muratore, Mardones. Cond., Andre-Caplet.

FRIDAY, 8 to 10.40, **SECRET OF SUZANNE**. Nielsen, Scott, Tavecchia. Cond., Andre-Caplet. Followed by **PAGLIACCI**. Nielsen, Ferrari-Fontana, Ancona, Everett. Cond., Moranzoni.

SATURDAY, 2 to 4.30, **The LOVE OF THE THREE KINGS**. Same cast as Monday.

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SCIENCE NOTES.

(Continued from Page 2)

er 52 percent carbon dioxide, the gas which is used for charging soda water, ginger ale and similar beverages. By far the greater part of the magnesite occurring in the United States is found in California, according to the United States Geological Survey, while reports have also been received of deposits in Nevada, Arizona and western Texas. A number of these deposits, especially in California, are of considerable size and yield magnesite of excellent quality, which is probably excelled by few, if any, of the foreign deposits and which is superior in purity to much of that mined abroad.

Bulletin 355 of the United States Geological Survey, entitled "Magnesite Deposits of California," by Frank L. Hess, was based on field examinations of the California deposits made in 1905 and during the winter of 1906-7. This bulletin is still available, but since its publication new deposits have been opened, consumption has increased, and inquiries constantly being received at the Survey for information relating to the occurrence and utilization of this material have led to the publication of Bulletin 540-S, entitled "Late Developments of Magnesite in California and Nevada," by Hoyt S. Gale.

Conditions governing the production and consumption of domestic magnesite have not changed in any marked degree in recent years. The presence of many good deposits of this material in California must continue to furnish the impetus which will tend to put our own production on the market as soon as natural conditions will allow. At present by far the largest part of the magnesite used in the United States is imported and is consumed in the Eastern States, the importations being about 20 times the domestic production and ranging from 100,000 to 150,000 tons a year.

Considerable interest in the domestic production of magnesite has been aroused of late in anticipation of the possible advantage that may accrue with the opening of the Panama Canal, in the hope that this new route may enable California producers to reach the eastern ports at sufficiently low freight rates to allow them to place their product on the eastern market.

Bulletin 355 of the United States Geological Survey by Hess and Bulletin 540-S by Gale are believed to describe all the commercial important magnesite deposits in the West. Copies of these reports may be obtained free on application to the Di-

rector of the Survey at Washington, D. C.

According to returns received by the United States Geological Survey up to January 12, 1914, it is estimated by Ernest F. Burchard, that the quantity of Portland cement manufactured in the United States in 1913 was approximately 92,406,000 barrels, compared with 82,438,096 barrels in 1912, an increase of about 9,967,900 barrels or 12 percent. The estimated shipments of Portland cement during 1913 were 88,853,000 barrels, compared with 85,012,556 barrels in 1912, an increase of about 3,840,400 barrels, or 4.5 percent. On account of a large surplus of production over shipments stocks of cement at the mills apparently increased more than 45 percent, or from 7,811,329 barrels in 1912 to 11,375,000 barrels at the close of 1913. In 1913 the relations between production and shipments were the reverse of those for 1912, when shipments exceeded production. It may be necessary to revise considerably the estimates of stocks, but it is believed that these figures for production and shipments are very close to those that will be shown by complete returns from all producers.

Although few definite statements as to selling prices are at hand it is evident that the average value per barrel was appreciably higher than in 1912. Increases of 10 to 25 cents a barrel are reported from several plants in the Central and Eastern States, but there were slight decreases reported from a few plants in the Rocky Mountain district.

Two new plants, both in Washington, were added to the list of producers during 1913.

FRESHMAN DINNER

Since the Tech-Harvard Wrestling meet commences at eight o'clock on Saturday, arrangements have been made so that the Freshman Dinner will be over by quarter before eight. A special section has been reserved for all Freshmen who wish to see the meet. Tickets may be purchased for both events in Rogers corridor any noon for the remainder of the week. Over half of the tickets have already been sold and the committee in charge requests those who desire to attend the dinner to obtain their tickets as soon as possible.

A reunion of the "W" men at Washington State college was held recently. It is planned to make this an annual event.

Changes in the methods of fraternity rushing are being considered at The University of Washington.

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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 Cafe.

CLASSIFIED AD.

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