

THE TECH

VOL. XXXIII. NO. 129.

THE TECH, BOSTON, MASS., FEBRUARY 13, 1914

PRICE TWO CENTS.

KNIESZNER SPEAKS ON CONVENTION

Student Volunteer Movement Talked About by Speaker.

The Kansas City Convention of the Student Volunteer Movement was the theme of the T. C. A. talk delivered yesterday by W. T. Knieszner, '16. Knieszner was a delegate to the convention, and so had the opportunity to be in close touch with the exercises there.

He first told of the character of the Volunteer movement. The object is to maintain close relations between the students of the country and the foreign missions, as well as to carry on missionary work at home. By it the students are kept informed of the opportunities for service in Christianizing pagan countries. The movement also tries to uplift the people of this country through the efforts of students. For these purposes the Christian associations in different colleges serve as a medium, and the work is furthered by meetings like the recent convention. The ideal is expressed in the slogan or battle cry of the organization, "Evangelizing the World in Our Own Time."

Knieszner told of the speeches and addresses made by some of the leading speakers at the convention. He devoted some time to the talk of Dr. John R. Mott, to whom he referred as the greatest missionary worker of the present world, and who, he told, refused three times the offer of the position of ambassador to China in order to continue missionary work. Dr. Mott told of his various experiences throughout the world, on his missionary tours, coming in constant contact with the students of many countries, and in every case, he found these students eager and waiting to receive the Christianity for which he labored.

The speaker then told of the great problems that confronted missionary workers in Asia and Africa, as presented by workers from those continents, and then dwelt upon the wonderful opportunities that await Christianity and its missionaries, as a result of conditions existing at the present time.

Wm. J. Bryan, the Secretary of State, in an address which was one of the features of the convention, praised the Volunteer Movement, and said that foreign students in our schools should take back western civilization and Christianity to their native countries. Knieszner pointed out that this advice applies particularly to the Institute, which has so many foreign students. All Tech men should realize that the ideas of Christianity obtained by men from other countries depend largely upon the general con-

(Continued on Page Two, Col 3.)

TECHNOLOGY MEETS COLUMBIA IN HOCKEY GAME TONIGHT

Arena Has Been Bought Out by Management—Big Crowd Expected To Attend Game—Cheering Section a Feature.

The M. I. T. hockey team will play Columbia Hockey Team tonight. It will be one of Tech's most important games as Columbia has always been a strong contestant for the Intercollegiate Hockey Championship in former years. The Institute team is confident of winning on account of

ing has been heard from it.

The Tech team goes upon the ice tonight materially strengthened by the acquisition of Eichorn. He was one of the star players of the M. I. T. team last year. This will be his first appearance on the ice this season. However, he should put up a star



N. D. McLEOD
M. I. T. Hockey Captain



R. W. MILLBANK
Columbia Hockey Captain

the improvement shown by its members in the last few practices. Columbia, however, will be no mean rival. Her defeat of Cornell with a 2 to 0 score, bears out this fact. Although the Cornell team of this year has a poorer team than usual a great deal of credit must be given to Columbia.

St. Pauls School defeated Columbia this Wednesday by a score of 10 to 1. Although beaten by a prep school, no notion of Columbia's strength can be gained from this game. This is due to the fact that St. Pauls turns out hockey teams that compare with the best college sevens.

The only basis of comparison between Tech and her opponent would be the result of the Dartmouth-Columbia game at Hanover, which was played yesterday afternoon, but up to the time of going to press nothing

game at point as he is fast rounding into last year's form.

The Tech Hockey management realized how important the game will be and for that reason has bought out the rink. They are selling the seats at reduced prices so that as large a crowd as possible will turn out for the game. The surplus money will be used to hire a coach for the team. The tickets are on sale at the Union.

The lineup will be as follows:

Columbia.	Tech.
Milbank (Capt.) g	g Lowengard
Reynolds p	p Eichorn
Dolbeare c p	c p Cochrane
Webb r	r MacLeod
Todd c	c Winton
H. Miller l w	l w Sawyer
S. Miller r w	r w Fletcher

WEATHER

Fair, continued cold; probably snow with slowly rising temperature.

1916 BASKETBALL

The picture of the 1916 basketball team will be taken at Notman's next Tuesday at 1.15.

BIG WRESTLING MEET ON SATURDAY NIGHT

Tech Team Out To Beat Harvard in Most Important Meet of Year.

Saturday night will witness the second wrestling match between the Institute and Harvard. Last year the Tech wrestling team got the better of the Harvard fellows by a small margin. With the team this year practically the same as last year and one that has not met a defeat for two years or since the time wrestling has been recognized as a 'varsity sport, the chances for a victory are very favorable.

Tickets are being sold all over the Institute and are going fast. Over four hundred have been sold already and it is expected that between five hundred and six hundred men will show up Saturday night to support the team in its biggest match of the year. This meet will be the last one of the year in the Tech gym and for that reason an extra large crowd is expected. It is the last chance that Institute men will have to see many of the men wrestle, as many of them will be lost by graduation. Captain Kelley, Manager Martin, Treat, Leslie and Means are the ones that wrestle in a 'varsity meet in the Tech Gym for the last time.

The team has met with some unexpected and rather heavy expenses of late and relies on the proceeds of the Harvard match to meet them and therefore wants all the support that it can get.

The Technology team will be chosen from the following: 115 pound class, Loo; 125 pound, Capt. Kelley, Means; 135 pound, Martin, Durkee, Rounds; 145 pound, Treat, Wood, Mertz; 158 pound, Goodell, Walter; heavyweight, Crowell, Leslie.

C. E. SMOKER

The Civil Engineering Society is planning a smoker for Friday evening, Feb. 20, in the Union. "Pa" Coburn '87 is listed as the speaker of the evening and his subject will be "Rambles of a Dam Builder." The society is planning for a lively meeting. Plenty of free smokes will be available.

CALENDAR

Friday, February 13, 1914.
1.30—News Board of THE TECH Meets. Lower Office.
7.30—Chemical Society. Union.
8.15—Tech-Columbia Hockey Game. Arena.
Saturday, February 14, 1914.
2.00—Name Contest for New Monthly Closes.
6.00—Freshman Class Dinner. Union.
8.00—Tech-Harvard Wrestling Meet. Gym.

TECH-COLUMBIA HOCKEY GAME--TONIGHT, 8.15.

THE TECH

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FRIDAY, FEBRUARY 13, 1914.

IN CHARGE OF THIS ISSUE.

Editor—Harold Gray, '16.
Assistant—A. D. Nute.

The campaign for improvement which the "largest student organization at M. I. T." is undertaking should prove of benefit to itself and to the students as a whole. The lines upon which it hopes to build are evidences that it recognizes its weaknesses, and that it will try to avoid the deadwood which is so likely to cripple the efficiency of an organization so large and so open to men on the outside.

We shall be interested to watch the outworking of the new plans. The T. C. A. has problems to face the like of which confront no other Institute activity, and it faces them in the name of a belief which has shown itself able to win the hearts and minds of some of the world's greatest men.

SECOND EDIT

We are in hearty agreement with the writer of the communication which we are running this morning. The conflicts which have occurred this year are notorious for their seriousness and frequency. We have said so much upon the matter that we have hesitated lately to mention it at all, for fear of being accused of harping with too much of consistency upon a single string; and we are glad to know that the men of the Institute have not forgotten it. So far as we are able to see, the Calendar Committee has done absolutely nothing to show that it is in existence at all. Why?

NEWS BOARD MEETING.

There will be a meeting of the news board of THE TECH this noon at 1.45 in the lower office. It is important that all men on the board are present.

FINE TALK PROMISED FOR CHEM. SOCIETY

Prof. Whitaker, Head of Dept. of Chem. Eng. at Columbia To Speak.

Tonight at 7.30 at the Chemical Society meeting, Tech men will be given their only opportunity this year to hear Prof. Milton C. Whitaker, Head of the Dept. of Chemical Engineering at Columbia University.

Prof. Whitaker takes for the subject of his talk "The Future of Chemical Engineering." He is a graduate of the Univ. of Colorado, has been General Superintendent of the Welsbach Company, and is now President of the Institute of Chemical Engineers, and Editor of the Journal of Industrial and Engineering Chemistry, in addition to his University work.

The course in Chemical Engineering at Columbia, which has practically been organized under Prof. Whitaker's direction, is similar in many ways to Course X at Tech, and while more recently inaugurated than the latter course, already takes its place as one of the three or four good courses in the country on that subject. A number of innovations have been made in the course, of which may be mentioned here the requirement in the summer of the third year of six weeks work in some chemical factory, with a report at the conclusion, in addition to the regular two weeks Factory Inspection Trip with its report.

The place which The Journal of Industrial and Engineering Chemistry now holds in the field of American chemical journals, is also largely due to Prof. Whitaker's untiring efforts, and as he is well known as a speaker, and is an enthusiast on the subject of Chemical Engineering Education, the officers of the Chemical Society expect the talk to be one of the best of the year.

COMMUNICATION

To the Editors of "The Tech":

As far as I understand there is a committee, whose business it is to see that no serious conflicts occur in the activities of the Institute. Certainly if they were attending to business they would have done something to prevent the quadruple use of Friday night. The Chemical Society is to have a meeting, the T. C. A. has just cancelled its social of its own accord, the Glee clubs go to South Framingham, and to cap the climax we have an important hockey game. Not being very well informed, I do not know of any other events of interest that are to take place tonight, but certainly there is a lack of system in the present arrangement.

Yours very truly,
L. E. B., '15.

MUSICAL CLUBS CONCERT

The Combined Musical Clubs will give their first concert of the term at So. Framingham tonight. It is to be at the High School and will be followed by a dance. A special car will leave Park square at twenty minutes of seven, and every man should be there as early as possible to avoid delay.

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KNIESZNER SPEAKS ON CONVENTION

(Continued from Page 1, Col. 1)

duct of the American men here. Those who profess Christianity must show by their actions that it is capable of doing good to the world.

The speaker mentioned Latin America as a territory especially in need of the missionary work. There the people are nominally Christian, but there is no live, virile church work. It is the land of neglect and ignorance with low moral standards. The uplifting influence of American ideals is badly needed. Educated men have a high position in these lands, and they can exercise a strong influence for good. For this reason it is important that all engineers whose work takes them to Latin America should do their part in helping the people. All native students who are

educated at schools in this country should also strive to introduce the ideals of a higher Christianity into their countries. This also applies to China, India, and other lands, where engineers often have occasion to go in the course of their work.

The missionary work demands men with every variety of training. Not only preachers are needed, but teachers and engineers of every kind. A fine opportunity is offered to Tech men to give some help to this cause, both through their contact with foreign students, and through their own efforts.

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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ENGINEERING AND SCIENTIFIC NOTES

The influence of the weather on our daily life is a fact well known to all of us and the eccentricity of the weather, especially of our Boston climate, is very pronounced as a frequent thirty degree drop in temperature within a couple of hours well illustrates. We spend large sums on our complicated weather forecasting bureaus in an endeavor to determine whether it will storm tomorrow and thus spoil our sleighing party, but as yet we have been content to accept, often with much grumbling, the weather as Nature provides it, without any attempt to modify the weather to suit our purposes. The plan of Sir Oliver Lodge for accomplishing this while quite fantastic, is founded upon some interesting scientific phenomena. We reprint below an account of his scheme:

The weather could be controlled by a switchboard—that is, if Sir Oliver Lodge had his way. Sir Oliver Lodge devoted the greater part of the Kelvin lecture at the Institute of Electrical Engineers in London to the framing of a programme by means of which electricians may tame the storm cloud and provide a deputy for sunlight when mists hang over the land.

The immediate necessity it appears is for vertical exploration. Sir Oliver Lodge considers that sufficient is now known of the earth's surface to give that subject a rest. He wants volunteers for expeditions to the higher atmosphere and to the bowels of the earth. Results are guaranteed—"something," he says, "is bound to happen." The present climatic irregularities, he says, are due to the provoking waywardness of the magnetic poles, and the irresponsible actions of trees under the influence of sunlight. Weather is a matter of electrical condition, though there is just a doubt upon this question. The ingredients necessary for fine weather are an upper atmosphere charged with positive electricity and a negative charge upon the earth's surface.

Fine weather theoretically might always be the order of things, but there is one disturbing influence. Sunlight, or, rather, the violet rays in sunlight, causes the leaves of trees to discharge into the atmosphere the negative electricity which ought otherwise to stay on earth. The lower atmosphere so charged tries conclusions with the upper atmosphere, and the rain particles, being of a peaceful persuasion, come down from the scene of strife. It is the sunlight and green leaves, according to Sir Oliver Lodge, which are responsible for the British summer taking the proverbial form of two days sunshine and a thunderstorm. The Sahara and the Atlantic being somewhat at a loss for green leaves enjoy, of course, a freedom from summer showers.

According to further theories of Sir Oliver Lodge and others the sun, with the best of intentions, discharges to this earth a goodly mixture of ions charged with positive and negative electricity. The magnetic poles, however, coax the ions charged with positive electricity to

T. C. A. ELECTION TODAY

Two Vacant Offices To Be Filled—Ballots at Cage.

The T. C. A. election will be held today. The election is for the offices of president and vice-president, the former vacancy being caused when Mr. Miles E. Langley '13 resigned when he found a change in his plans necessary, and the latter when C. S. Norton '15 resigned from his position. The ballots for the election can be obtained at the Cage in the Union, only members of the T. C. A. can vote, and the ballots are to be returned to the Cage by 5 o'clock.

The candidates for the various offices are as follows: For the office of president, Charles S. Norton '15, and for the office of vice-president, John Homan '15. The results of the election will be published in the Saturday issue of THE TECH.

COURSE IV MEDALS

Two Medals To Be Awarded for Designs.

Through the influence of Prof. Lemonnier, who was appointed the first of this term Asst. Professor in the Architectural Dept. of the Institute, the Société des Architectes Diplômés par le gouvernement Français has granted to the Architectural Department of the Institute a gold medal and a silver one to be awarded as prizes for designs to be done in competition among the 4th and 5th year men in Course IV. Corresponding prizes are awarded in France by Americans to the students at the Beaux Arts.

As the subject in France is always American the design here at the Institute will probably be on some French subject. The competition this year will start some time in the early part of March.

that portion of the atmosphere above the Polar regions, leaving the warmer climes to look after the negative ions. The positive ions waste the greater part of their existence giving pyrotechnic displays—aurorae boreales and such like. Only when driven towards the equator by wind currents do they stimulate rainfall. Sir Oliver Lodge, therefore, would shift the magnetic poles so as to give us a greater share of positive electricity in our higher atmosphere. Much, he says, could be done by placing a copper rod around the earth parallel to the equator and discharging millions of amperes through this rod. We have built miles of railways; why not spend capital in controlling the weather?

Meantime, in default of the copper bar and the necessary millions, Sir Oliver Lodge appeals to electricians to ascend a high mountain, erect a powerful generating station, and discharge all the positive electricity they can produce into the air. Something, he says, is bound to happen. Whether any soul would remain to switch the current off he did not say. The appeal of the Kelvin lecturer is for volunteers.

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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 **PAGLIACCO**. 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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TRACK TEAM HAS A FULL SCHEDULE AHEAD

Dual Meets and Relays To Look Forward to Besides the Intercollegiates.

A full schedule of work is laid out for the track team from now on. There are several meets scheduled for the team among them being the Holy Cross meet and the one with Bowdoin at Bowdoin. The Holy Cross meet will be held at the Tech Field. There is also the relays at Providence where two teams will be sent. It is still a matter of doubt regarding the Pennsylvania Relay Carnival. The season will end up with the N. E. I. C. A. A. and I. C. A. A. A. A. meets in May.

The Freshmen are showing considerable activity in the matter of their schedule. The annual Freshman-Sophomore meet will be run, but probably on two successive Wednesday afternoons instead of the usual way. Meets have been arranged with Lowell High and with Andover. The Lowell meet will be held on March 7th and the one with Andover the 14th. In addition to this, the management is trying to arrange Freshmen meets with Harvard and Yale. Yale has never been on the Technology schedule in track work and it is hoped that the plans can be matured. A Freshman meet with Harvard, if it can be definitely settled, is very desirable from the viewpoint of track men of the Institute.

The 'varsity squad has been doing very good work this season as shown by its defeat of the strong Dartmouth team last Saturday night. Several other of the men besides those that ran that night are showing good form and are cutting down their times. Cook has taken up the longer distance work and according to the watch is improving considerably. Brock of the Freshmen as well as O'Hara is showing speed. Wall of last year's team is starting in work again and should prove a valuable addition to the team in the long distances. Some of the men at the Institute that have done track work, however, and could be seriously considered as 'varsity material have failed to come out of late. With these men trying out the standard of the teams could probably be raised. A number of the fast men on the class relay teams are among the number.

As the outdoor season will start in a few weeks, many of the men that are looking forward to the Spring meets and are not practicing would get a considerable advantage by starting their training now, in the opinion of Coach Kanaly. Consider-

able time would be lost if the men waited until the outdoor season actually began as it would take time to get in condition and the men would not be at their best at the time of the meets.

FRESHMAN BANQUET

Committee Announces Names of Speakers.

The speakers for the Freshman Dinner tomorrow night will be Dean Burton and Professors Talbot, Russell and Miller. The Dean's subject is, "Is Technology a College or a Professional School." After his speech Professor Talbot will give a fifteen minute talk on, "1881 versus 1914." The subjects of the two remaining speakers, Professors Russell and Miller, will be announced later. Each will speak fifteen minutes and with this arrangement the banquet will close at ten minutes to eight. An excellent turkey dinner is guaranteed all who go.

1917 FOOTBALL PICTURE

Next Monday the Freshman Football Team picture will be taken at Notman's, No. 3 Park street. The Captain requests that all men be present at the sitting so that a complete photographic record of the entire team can be secured. The picture will be taken promptly at 1.15, February 16th.

FACULTY NOTICE

Third Year.
Argumentation and Debating.

On Saturday, February 14, the course will meet in 21 Rogers; thereafter in 6 Lowell. Come prepared on Chapter 1 of Foster's Argumentation and Debating.

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