

# THE TECH

VOL. XXXIII. NO. 64.

BOSTON, MASS., FRIDAY, OCTOBER 31, 1913.

PRICE TWO CENTS

## REV. W. BUTLER GAVE T. C. A. TALK YESTERDAY

"Spiritual Efficiency" Subject of Assistant Pastor's Talk In Union.

At the fourth T. C. A. meeting of the year held yesterday noon in the Union, the Rev. Willis Butler, assistant pastor at the Old South Church, spoke on "Spiritual Efficiency." A large number of men attended the meeting.

Mr. Butler in opening his talk, said that the most efficient life, the type of life that is most generally talked and written about, is not such because of what it does, but mainly because of its resources. Such a life might be compared to the small college, receiving large endowments and having comparatively few students enrolled. The small college, with its resources, is much more efficient than the large college, also with large endowments, but with a large number of students.

The real efficiency does not lie in what is put into a thing, but in what is gotten out of it; similarly as in a machine, its efficiency lies in the amount of power received from it, and not in the amount expended upon it. The speaker said that one of the greatest engineering problems of the day was in finding how a larger percentage of the latent energy in the earth could be converted into

(Continued on page 2.)

## CHESS TOURNAMENT

Results Of The Drawings For Chess Club Opponents.

The following drawings have been made for the chess tournament: W. H. Blank '16 vs. R. B. Stringfield, D. E. Woodbridge '16 vs. T. R. Johnston '15; I. Paris '14 vs. R. H. Ross '14; L. R. Sears '15 vs. D. Dunning '15; E. H. Neumann '15 vs. G. A. Saladrigas '16; A. L. Higgins vs. P. F. Jones '14; J. M. Phillips '16 vs. H. M. Baxter '17; Deane '17 vs. S. Lewiston '17; and E. A. Weaver vs. L. Stone '16.

The winner of the best two out of three games to be played is to leave notice of the result for D. E. Woodbridge at the Cage. The members of the Chess Team will be chosen largely from the results of this tournament. Two weeks will be allowed for the first round and one week for each round after that, with the exception of the finals.

## IMPORTANT MEETING

All Men On THE TECH Meet At 12 O'clock Saturday.

There will be an unusually important meeting of all the men connected with THE TECH in the Lower Office at 12:00 o'clock on Saturday. For the convenience of anyone who cannot possibly attend at this hour men can be accommodated between 8.30 and 9.00 in the morning. It is necessary that every man on THE TECH be present at one of these meetings as a very important topic is to be brought before them.

## FIELD DAY TICKETS ON SALE MONDAY

Price Of Grandstand Reduced To Seventy-five Cents—Admission Fifty Cents.

The tickets for Field Day will be put on sale Monday in Rogers Corridor at 1 o'clock. Manager Thomas of the Track Team, after a conference with Major Briggs of the Advisory Council on Athletics, is able to announce that this year the price of grandstand tickets has been reduced from \$1.00 to 75 cents. The regular admission to the field will be fifty cents. Special sections will be arranged in the bleachers for members of the Freshman and Sophomore classes as has been the custom.

## SATURDAY LAST DAY FOR TECH NIGHT TICKETS

Tickets Must Be Redeemed Either Today or Tomorrow In Rogers Corridor.

The tickets for Tech Night are selling steadily. The Freshmen are still backward in taking up their section. One Freshman was so for behind the doings of the Institute as to inquire of the agents in Rogers Corridor what they were selling. It is officially announced that tickets may be redeemed today. Tomorrow will be the last day of the sale and all tickets must be redeemed by that time.

The Sophomore Football squad now comprises two full teams.

## MEN FOR FRESHMAN RELAY TEAM CHOSEN

Nine Men Picked Yesterday After Trials—Five Men Must Run Over Again.

The following men have been chosen for the Freshman Relay Team: Berward, Day, Dean, Erb, Gardner, Hulbert, O'Hara, Quilhot, and Williams.

Further trials will be necessary for Axmayer, Bond, Doon, Roberts, and Waite. This afternoon Friend and Donnelly, Brock and Parker of the Cross-Country squad will try out.

All relay men, particularly those who have been permanently chosen, are urged to meet Manager Friend for a few minutes on Rogers steps at 1 o'clock today.

## 1916 Relay Trials.

The final trials for the Sophomore Relay Team will be held at the Field this afternoon between 3.30 and 5.00. About twenty-five men are expected to take the trials, of whom about twenty have been out regularly for practice. Some new men were out at the Field yesterday, and these may upset calculations if any turn out to be fast men. The work yesterday consisted of starts and short dashes, not any being over 120 yards. The make-up of the team that will be picked today is doubtful. There are about five or six men that are sure of positions, but the remaining twenty will have to fight it out for the other places on the team.

## 1916 Tug-of-War.

The 1916 Tug-of-War Team held a heavy practice at the gymnasium yesterday. A fair number of candidates were present, but there does not seem to be so much interest as the Freshmen show. The team is starting to take its starts from the pistol, and does not intend to be outdone by the Freshmen who have used this method from the first.

## 1917 Tug-of-War.

The 1917 Tug-of-War candidates are putting in some real work at the (Continued on page 3.)

## WEATHER

For Boston and vicinity: Fair; moderate to brisk northwest winds.

## CALENDAR

Friday, Oct. 31, 1913.

2.00—Course XIII Talk—32 Eng. C.  
4.00—1916 Tug-of-War—Gym.  
4.00—1916 Relay Trials—Field.  
4.00—1916 Football—Oval.  
4.00—1917 Tug-of-War—Gym.  
4.00—1917 Relay—Field.  
4.00—1917 Football—Field.  
4.15—Institute Committee—8 Eng. C.  
5.00—Glee Club—Union.

Saturday, Nov. 1, 1913.

2.00—C. E. Society—Leave Eng. A to Inspect Paine Building.  
2.00—Tech Night Sale of Tickets Closes.  
2.30—Fall Handicap Meet.  
Afternoon—Tennis Tournament.

## Can You Give Us Suggestions That Will Improve THE TECH In Any Way?

It is the earnest wish of the Managing Board to make THE TECH better in every department, to fill the wants here at Technology more fully, and to become absolutely alive to every phase of Institute life that falls in the least way under the scope of a daily paper. YOU can help us with your suggestions and criticisms, and we sincerely hope you will do so frankly.

Write your criticism on a piece of paper and drop it in the mail box near the door of the Lower Office at the Union, or in the mail office in Rogers Corridor.

## INSTITUTE COMMITTEE

Election of Officers—Reports From Various Committees.

There will be an important business meeting of the Institute Committee this afternoon at 4.15 in 8 Eng. C. A large amount of business is on hand including the election of officers and executive committee for the coming year. At this meeting reports will be heard from the Union Committee and the Sophomore Tech Night Committee. All members of the Institute Committee are requested to be present.

## MR. OWEN TO SPEAK

Mr. George Owen, a noted yacht designer, will speak to the Juniors of Course XIII this afternoon at two o'clock in 32 Eng. C. The subject of Mr. Owen's talk will be the designing of racing yachts. After the talk Mr. Owen will suggest methods of improvement in the designs which the men are now making.

## CROSS-COUNTRY WALK

About twelve of the cross-country men went over the course yesterday afternoon at a walk. Considerable attention was given to fence jumping, a part of the work that has been rather neglected.

## RED HEADS, ATTENTION

"Reddy in the woods can't catch a butterfly!" If you can't catch the butterfly, turn in your name and class to L. F. Hamilton 1914, at the Cage, and watch THE TECH.

## COMMUNICATION

What is the matter with the Union House Committee this year? Do they intend to place any magazines in the Union? If they do they should get busy, for there have been none put in since the beginning of the term. Last year the Union was fairly well supplied with reading matter, but now all that one may do in the Union is to study and talk. According to a recent communication, talking seems to annoy those who wish to study. Magazines should be supplied for the benefit of those who wish to do neither. A Reader.

## MANDOLIN CLUB

The Mandolin Club held its regular rehearsal yesterday afternoon in the Union. Coach Lansing was present and helped the men considerably in the preparation of their parts. New strings were given out to the men. The next rehearsal will be held at 5 o'clock Monday in the Union.

# THE TECH

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FRIDAY, OCTOBER 31, 1913.

We have received several suggestions in answer to our request, one of which we take pleasure in printing in this issue. The criticism of the cut we think is well taken; these matters will receive better attention when we have a Managing Editor.

There seems to be a wide difference of opinion concerning the engineering notes, some saying nobody reads them, others praising them highly. Let us have your opinion on the subject.

A suggestion that we run all Field Day news in one story, with sub-heads separating the different items, and another that we have each team permanently covered by one man, have already been put into operation.

We wish to thank those men who have given us ideas, and to urge others to do the same.

The intention of the Institute Committee to elect its officers and executive committee at the meeting today, seems to us a rather hasty and ill-advised step considering what a large number of the members are not yet appointed for this year. The Freshman membership is of course lacking until after Field Day, and the Sophomore representation, due to the action of the Committee itself, consists of men who hold over from last year. The latter, it seems to us, should not represent this year's class in such an important election as this.

With only two of the classes correctly represented, it would seem that the Institute Committee should postpone action for the present, particularly as the delay would not have to be long.

Over forty-five men out for 1916 Tug-of-War.

## ENGINEERING AND SCIENTIFIC NOTES

Although we do not at times like to believe it, nevertheless it is a fact that the interior of the earth is still a molten mass. The exact temperature of this no one knows, but data is at hand regarding increase in temperature encountered as we penetrate down into the exterior crust of the earth. The U. S. Geological Survey has recently carried on some interesting investigations in this line at an oil well drilled near Findley, Ohio. Temperature measurements were taken at eight different depths, the first at 100 feet and the last at 2980 feet. After corrections had been made there was found to be an increase between these extreme depths of from 51.8 to 82.1 degrees Fahrenheit, that is 30.3 degrees increase. This corresponds to a drop of one degree per 95 feet of depth. Three thermometers of the maximum-minimum type were used so as to afford a check for errors due to jarring in raising. These thermometers were placed in a copper tube which was suspended between two helical springs in a cage of stout wire. This, together with the sinking weight, was lowered by a chain made of 100 ft. sections of steel wire cable.

Some time when you want to "pull off" a good stunt at a house party and likewise to air your knowledge of second year physics, you might rig up an outfit similar to that used by the Ozone Pure Airifier Company to attract attention to their booth in the International Refrigeration Exposition, and startle your friends by cooking delicious fried eggs on ice. For apparatus you will need some form of an electromagnet mounted in an enclosed box and energized by an alternating current. On the top of this box is placed a slab of ice about three inches in thickness. Now if the hand is held over the slab of ice no heat is of course felt, but if an aluminum griddle, originally cold, is laid upon the ice it immediately becomes heated; and the griddle in the exhibit was heated so hot that eggs could be fried thereon. Of course you can explain the source of this heat.

### T. C. A. TALK

(Continued from page 1.)  
useful work. A similar problem exists in the case of life in general. Mr. Butler said that it would be surprising to see how much physical energy could be developed from a simple diet, and he quoted several suggestions from the book, "How to Live on Twenty-four Hours a Day."

A man's spiritual efficiency should be such that he will make his religious faith go as far as it will, and he will then receive the most enjoyment in life. If he has no faith, or if he is losing his faith, he can make his spiritual efficiency greatest by living up to the highest type of life, the life which is loyal to truth. Then he will see things as they are, he will see through the hypocrisy and sham of life, and can look into the future with a brilliant ray of hope.

Next Thursday's speaker will be Captain Cele, Zulu Prince, who will speak of his own life and of his country. The Prince, whose name is Mandekane Qandiyani Cele, which means "I don't know how long I'll live" and "Give me something to eat," has been a student at the Hampton Institute, Virginia, an institution for the industrial training of negroes. Captain Cele is a native of Africa.

Flag passing has come to be the important part of the relay practice.

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## FALL HANDICAP MEET TO BE HELD TOMORROW

Fast Times And Close Finishes Expected—Technology-B. A. A. Run.

The Annual Fall Handicap Meet will be held tomorrow, with the exception of one and two mile runs, which have already taken place. The meet will start at 3 o'clock sharp and the management hopes to have a large gathering present as the meet promises to be of more than usual interest.

At about 4 o'clock the Technology-B. A. A. run will finish at the Field. The B. A. A. expect to have several stars running, among them Oscar Hedlund, Silva, Cook and Mahoney. The race will also decide the M. I. T. Cross-Country Team for the season and a snappy race is to be expected.

A full list of the entries, which closed last night, with the handicaps will be printed in tomorrow's TECH. The Cross-Country men leave Back Bay at 2.52 Saturday.

## COMMUNICATION

All cheers for the 1917 banner offered by the Chauncy Hall 1913 Club will be tried out at a class meeting to be held the first of next week. All candidates who have not as yet submitted their cheers are to leave them at the Cage before Monday noon. Freshmen want one good cheer for Field Day, and this is a good opportunity for 1917 men to use their wits.

## FIELD DAY TEAMS

(Continued from page 1.)

gymnasium every afternoon. The men are beginning to realize how few days are left for practice. About thirty-five men turn out each day, but there should be enough more to form two full teams, and thus accustom the men to pulling against a full team. The coach is watching the men closely and the team will be announced early next week. Yesterday Manager Wood took measurements for the jerseys, and the candidates were put through a physical examination. The results promise a strong team.

### 1916 Football.

The 1916 Football Team held a secret scrimmage yesterday with Boston Latin High School on the National League ball grounds. Twenty minutes were spent in heavy work, but there was no game on account of the absence of a majority of the players. There was no regular line-up and the playing was ragged. Today scrimmage practice will be held at the Oval and all players are expected to attend.

### 1917 Football.

The 1917 Football Team is putting in a lot of hard practice in the few days left before Field Day. Attendance at daily practice counts a great deal, and the coach positively says that anyone who has any hopes at all of making the team must be on hand every afternoon until Field Day. Today scrimmage practice will be held, and the results will play an important part in the choosing of the team which will be done soon. Pictures of the candidates are to be taken this afternoon.

S. S. F. S. Berkowitz, manager of the famous 1913 baseball team of THE TECH, is a candidate for Managing Editor.

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**RABBI FLEISCHER TO SPEAK SUNDAY**

First Meeting of Sunday Commons Series To Be Held in Huntington Hall.

Next Sunday, for the first time since the days of Dr. Phillips Brooks, Huntington Hall will be used for a meeting of a religious character. The meeting, which will be held at 3.30 P. M., is to be an open one under the auspices of the Sunday Commons, an organization which stands for "the interpretation of the life of this day in the spirit, thought, and speech of this day." The Commons formerly held meetings at the Majestic Theatre, but during the month of November will carry on their discussions in Huntington Hall.

Dr. Charles Fleischer, leader, will speak on "New Revelations" at the first meeting. Later other speakers voicing modern thought and practical Idealism will be invited from time to time to address the meetings.

The Sunday Commons is a practical religious movement of a new kind. It was started some ago by Rabbi Fleischer on the principle that "The solid basis of life is economical. It is for religion to idealize the economic conditions and to point out the spiritual implications of material results." Dr. Fleischer says of the purpose of the movement, "I shall stand for practical idealism, radical but reverent, sane, scientific, spiritual and social. I mean to infuse moral idealism into our material concerns, and to interpret science spiritually. All this is to be done in the thought and speech of our day and country. 'America' is to be our spiritual slogan. American life is to be glorified and our age exalted." He believes that there are many people to whom none of the many types of churches appeal, and who wish to have the spiritual life interpreted in the thought and speech of today. It is to these people that he expects the new movement to seem favorable. Everyone who is interested is invited to attend the meetings of the Commons, and learn more about their aims.

**FACULTY NOTICES**

The hour examination in Second Year English Literature for Courses II, IV, and VIII will be held Monday, Nov. 3; for Courses I and XI on Wednesday, Nov. 5; for Courses VI (1) and VII on Friday, Nov. 7.

**Precision of Measurements**

Students having deficiencies in Precision of Measurements are requested by Professor Goodwin to consult the general bulletin board in Room 16., Walker Building, at their earliest convenience.

Walter Humphreys,  
Registrar.

That man Thompson on the 1917 Football Team is evidently a person to be watched.

**COMMUNICATION**

To the Editor of THE TECH:—

One who has had the pleasure of an interview with Major Briggs would recognize the cut of him in Thursday's paper only after careful study, were it not for the caption accompanying it. The cut is devoid of personality, of life and of expression. Although I realize that out of respect to the Major you had to place the article on the front page, would it not have been better to place it inside, or else reserve your appeal for criticisms for a later date?

However, as the saying goes, "Outside of that, it is all right." Your paper is much better than it was last year. The ads are live and the stories are better. There is less drool than formerly, and less stories go unnoticed than in previous years. "Scientific Notes" is a valuable addition, but you do not sacrifice news for them. Congratulations. A. P. G.

Soccer contests at Tech will be quite a novelty.

The Cross-Country Team is expected to make a very good showing in all its meets this fall. Its calibre will be demonstrated next week.

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