

# THE TECH

VOL. XXXIII. NO. 67.

BOSTON, MASS., TUESDAY, NOVEMBER 4, 1913.

PRICE TWO CENTS

## CROSS-COUNTRY RUN WITH HOLY CROSS

To Be Held Friday Over Regular Tech Course—Finish At Field.

There will be a dual cross-country run with Holy Cross next Friday. The race will be held over the regular Tech course starting from West Roxbury and ending at the Field. Arrangements will be made to have the finish come about the middle of the Field Day contests, so that those there to witness the struggle between the lower classes will also see a very close and exciting finish to the run.

Each team will be composed of ten men, six of whom will score. The winning team will receive a cup and the first six men to finish will receive badges. The arrangements also have been made to hold the run at Worcester next year under the same conditions.

Holy Cross has several fast men and a well-balanced team, but there seems no reason at present why Technology should not win by a handy margin.

Besides being a race with a neighboring college the race will be the basis of the choice of the team that is to run in the Intercollegiate on the fifteenth and twenty-second. Seven men are to be chosen for these races.

There is little doubt that the individual winner of the race being Benson '16. He is running well and is gradually rounding into that form that placed him eighth last year in the New England's when running against the best men of this section.

Today the team is scheduled for a walk from the Gym at about 4.30.

## SOCCER FOOTBALL

Men Interested are to be in Union Tomorrow Noon.

Agitation has been begun among Tech men interested in athletics in favor of the old English game of Soccer Football. This movement, a preparation for the spread of athletics in the NEW TECHNOLOGY, is under the supervision of G. M. White, last year's track manager, who wishes all men interested to meet him in the Union, Wednesday, October 5, at 1.00 P. M., in Room B.

## MANAGING BOARD

There will be a very important meeting of the Managing Board of THE TECH today at 5.30 P. M. in the upper office.

## SOPHOMORE RELAY

The manager of the 1916 Relay Team requests that all the members of the team turn in to him the measurements for their suits. Arrangements had been made to have a man at the Field yesterday to take these figures, but a slip occurred and no man appeared. Each man must turn in his chest and waist measurements and the length of pant leg desired to "Jimmy" Uhlinger.

Grandstand seats for Field Day are going fast.

## NEGRO CAPTAIN TO SPEAK THURSDAY NOON

T. C. A. Speaker, Graduate of Negro Industrial School—Is Native Of Africa.

Captain Cele, who is to speak in the Union next Thursday noon, will undoubtedly be one of the most interesting and novel speakers that the T. C. A. has ever engaged to speak at its weekly meetings. As a personage, he is said to be a very unusual character, and the men at the Institute are very fortunate in having the opportunity to hear him speak.

Captain Cele is a genuine African negro, and has just finished his training and education in the United States. He graduated recently from the Hampton Institute, in Virginia, a leading school for the industrial training of negroes, and is planning to return to his native country in Zululand, as he calls it, in the near future. Before taking his departure, the Captain is spending a few weeks visiting some of the American colleges and universities. He speaks English fluently with only a slight foreign accent. Mr. Cele is a strapping big man, about six feet six inches in height, and is an athlete in every sense of the word. He is said to possess a most interesting and pleasing personality. His talks are reported to be full of funny stories, and at the same time, they are messages that make men think.

Mr. Cele's plans on his return to Africa, are to found and to build up an industrial school for the education and training of the natives. Captain Cele married an American negress in the last few weeks, and she is to return to Zululand with him to teach the girls how to cook and sew.

## 1916 GOV. BOARD MEETING

New Election Committee Appointed—\$210 for Field Day.

At a meeting of the Sophomore Governing Board, held yesterday afternoon, R. E. DeMerritt and J. R. Duggan were appointed to lead the cheers of the Sophomore Class on Field Day.

The other business transacted at the meeting was as follows: In place of the old Sophomore Election Committee, which was dissolved two weeks ago, the following men have been appointed: J. B. Carr, chairman; H. E. Schabacker, C. S. Reed, and F. B. Hastie.

The expenses incurred by the Sophomore Field Day Teams are to be met by an appropriation of \$210 from the class treasury, one third of which is to go for each team.

It was also resolved at the meeting, that each and every member of the Field Day Teams must have paid his class dues, both past and present, in order to retain his position on the team.

The results of THE TECH'S request for criticism are proof positive of a real interest in the paper among the students.

November 29 is the limit of the time allowed for making up "D's."

## DR. MACLAURIN IN HUNTINGTON HALL

Will Present Plans to Undergraduates—First Official Announcement Saturday Evening.

Under the auspices of the Walker Club, a meeting will be held in Huntington Hall this coming Saturday evening at 8.30 P. M., at which the plans of the New Technology will be presented to Institute men and their friends, in a more detailed and less formal way than they can be given in the special souvenir issue of THE TECH, which comes out Saturday morning.

The speakers are President MacLaurin, Dr. Rockwell, and Mr. Litchfield. The President will explain the general educational arrangements; Dr. Rockwell the athletic; and Mr. Litchfield will devote himself to the buildings which have to do with student life. This is the first official announcement of the plans; it is a significant fact that it is made direct to the student body.

The meeting will take place immediately following the Field Day Dinner in the Union. The men will be seated by classes with their cheerleaders in evidence.

## SOUVENIR ISSUE

Eight or Ten Page Paper on New Institute

Preparations are well under way for the special New Technology issue of THE TECH, which will be on sale Saturday. Special effort is being put forth to render this paper one which every Tech man will wish to preserve as a memento of the greatest event in Technology's history.

## FIELD DAY LUNCHEON

Steward Colton to Arrange a Special Menu.

For the benefit of the men who wish to bring the ladies to see the Union and have dinner before going out to the field on "Field Day," Steward Colton has arranged a special "Field Day Luncheon." This dinner will be served in the Union Dining Room from 12.00 to 2.00 P. M. and may be had at the nominal sum of 35 cents.

## MANDOLIN CLUB

The Mandolin Club held a rehearsal yesterday afternoon in the Union. A new medley was given out which is to be learned by the next rehearsal. This will be on next Thursday, and the Coach will be present.

## PROGRESSIVE CLUB

Several Progressive Club members are working at the polls today, checking up the voters as the ballots are cast. They are volunteers in answer to the call sent out by the Club through THE TECH. Their work is in Wards 10 and 11.

## FIELD DAY REGULATIONS AND POINTS ANNOUNCED

Time Of Various Events Is Given—Date Of Field Day Dinner Set.

### Field Day Regulations.

No one will be admitted without a ticket or a badge; officials and marshals will be provided with badges, and competitors will receive tickets through the managers of their respective teams.

The following rules must be observed by spectators, substitutes, officials, marshals and others:

During the football game only the players and officials directly connected with the game will be allowed on the playing field; substitutes and coaches will not be allowed to approach nearer the side line than fifteen yards, and then only on the north side of the Field (opposite the spectators' stand).

During the Relay Race, only the referee and the officials connected with this particular race will be allowed on the field.

During the Tug-of-War trials, only the teams and officials in connection therewith will be allowed on the field.

At no time will anyone be allowed between the field and the spectators in the stands, except marshals who may be detailed to particularly enforce this rule, and football officials.

Officials will be designated as follows:

Football ..... Yellow badge  
Relay and Tug-of-War .... Blue  
Marshals and Managers .. Scarlet  
Press ..... White

The FIELD DAY DINNER to which all participants on Field Day, including officials, managers, and competitors are invited, will be held (Continued on page 4.)

## TECH SHOW CANDIDATES

Freshmen Out For Asst. Business Manager Meet Tomorrow at 5.30

This afternoon all Freshmen candidates for the position of Assistant Business Manager of the Tech Show are to meet Business Manager C. R. Lordin in the Show office at 5.30 P. M. The Sophomore candidates will meet in the Show office Wednesday afternoon at 5.00 P. M.

## WEATHER

Probably rain—moderate south to west winds.

## CALENDAR

Tuesday, November 4, 1913.

2.00—Nominations for Executive Committee Catholic Club—Gym.  
4.00—1917 Tug-of-War—Gym.  
4.00—1917 Relay—Field.  
4.00—1917 Football—Field.  
4.00—1916 Tug-of-War—Gym.  
4.00—1916 Relay—Field.  
4.00—1916 Football—Secret Practice—National League Grounds.

Wednesday, November 5, 1913.

1.00—Soccer Football Meeting—Union.  
5.00—Cosmopolitan Club—8 C.

# THE TECH

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TUESDAY, NOVEMBER 4, 1913.

## In Charge of This Issue:

Editor—G. W. Wyman '16.  
Assistant—G. N. Althouse '15

The get-together meeting to be held this Saturday in Huntington Hall under the auspices of the Walker Club promises to be the greatest All-Technology affair since Founders' Day last year. The club organized this meeting for the purpose of furnishing a more personal and intimate supplement to the plain facts as announced in more formal and exact form earlier in the day, in the special souvenir issue of THE TECH. In pursuance of this idea they have arranged to have each phase of the New Institute discussed by the man best qualified for that particular purpose.

Dr. Maclaurin will open the meeting, and explain the educational side of the subject; Dr. Rockwell will take up the athletic arrangements, and Mr. Litchfield will elaborate the student life at the new location, particularly the buildings devoted to it, and will give a short historical sketch of the Institute with regard to the buildings it has occupied at various times. Each talk will be accompanied with stereopticon slides, a large number of which are being specially prepared for the occasion.

The gathering will occasionally be enlivened with Tech songs, the words being thrown on the screen for the benefit of new men. As the seating is to be by classes, some competitive class cheering may be expected.

We have received simultaneously with the criticism printed in this issue charging us with excess of zeal in fault-finding, another of practically opposite import. It praises the recent critical editorials on the ground that THE TECH has been prone to take the attitude of passing over most shortcomings rather than appear to be a "knocker" and "run down" the Institute. We should be glad of more opinions on this subject as we wish to pursue a middle course, praising and blaming impartially.

## ENGINEERING AND SCIENTIFIC NOTES

In a paper which he read before the Societe Internationale des Electriciens, M. De Reehlinghausen described some interesting and valuable results which he has attained in the sterilization of water by ultra-violet light. In his first experiments quartz mercury vapor lamps of the type manufactured by the Westinghouse-Cooper Hewitt Co., which were inserted in a separate chamber provided with windows of rock crystals in order that the high temperature necessary for the production of the ultra-violet rays could be maintained. The water underwent a preliminary filtration which clarified it and then it was run past the lamp. Current consumption of 25 watt hours per cubic meter was sufficient to practically sterilize the water. Bacteriological examination showed that the number of germs had been reduced to ten per cubic centimeter (after fifteen days culture), and in many cases even to zero.

These results were very satisfactory, but with these lamps only about sixty per cent. of the ultra-violet light actually reached the water. Accordingly a new form of lamp was devised. A U-tube with the branches about six inches in length was employed and the whole luminous portion of the tube could thus be inserted in the tank. Such a lamp, when taking 3 amperes at 500 volts develops some 8000 C. P. when measured perpendicular to the length of the tube. An electro-magnetic relay, operated by the lamp current, is arranged to cut off the flow of water should the lamp be, accidentally extinguished. Such a lamp was tested with from 175,000 to 220,000 gallons a day of ordinary river water, which had been roughly filtered, but which still retained a marked yellowish tinge. The resulting water contained from 0 to 9 germs at most per cubic centimeter, while originally there were between 56 and 655 germs per cubic centimeter.

An important question in connection with such plants is the length of life which may be expected of the lamps. Although the new 7-tubes have been only recently introduced, experience has shown that no appreciable falling off of the ultra-violet rays occurred at least up to 1300 hours of work, and there seems to be no reason why their life should not extend to 3000 hours or more, as with ordinary quartz lamps. In the laboratory at Sorbonne some lamps tested after 7000 hours use have shown only from 10 to 15 per cent. reduction in ultra-violet rays. This method of water sterilization is being extensively developed and it will doubtless prove a valuable process for the biologist and the sanitary engineer.

Tickets for the "Honeymoon Express" can still be obtained at the box office at the theatre. Fare, two cents a mile, for trip of one hundred miles.

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Today is positively the last day the managers of the Field Day teams may obtain their tickets for "The Honeymoon Express." All paid receipts must be redeemed by tomorrow also, for the Committee will not be in the Rogers Corridor after tomorrow noon. The management of the show wishes the men to have as good a time as possible, but requests the men not to throw anything on the stage for it makes dancing impossible, and further requests that they not stand up in their seats as this blocks all view from behind. If these rules are violated it will probably mean that the show will have to be stopped.

**COMMUNICATION**

To the Editor of THE TECH:

Dear Sir—Noting your printed request for criticisms, I would like to call your attention that the impression on reading THE TECH, particularly in reading the editorial columns, is that the Institute is going to rack and ruin, particularly as regards the spirit of the undergraduates. I firmly believe that a great deal more can be gained by presenting a spirit of absolute optimism, both editorially and in the news columns.

By continually criticising the students' activities your criticisms lose weight, exactly as happens with a man who always wants everything done "immediately." People who know him well get to discount his word "immediately," so that before long when he really does want something done in a special hurry his word "immediately" counts for nothing.

This does not necessarily mean a spirit of bluff or of stating things in the wrong light. My impression is that more can be gained by carrying men with you on a wave of general enthusiasm than ever can be by continually criticising them. You have probably observed for yourself that no man is more of a bore than the pessimist who is always knocking and looking on the dark side of things.

In offering this matter for what it is worth, I remain with best wishes for the prosperity of THE TECH.

Very sincerely yours,

D. R. Stevens.

After studying the methods of eighteen leading universities abroad, Professor William McPherson, head of the department of Chemistry at Ohio State University, declares that the American universities excel in instruction, but that the foreign schools are more prominent in research work.

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**FIELD DAY TEAMS ROUNDING INTO SHAPE**

**Candidates Working To Get Into Condition For Friday's Contests.**

**1917 Football.**

The 1917 Football squad was put through some stiff plays yesterday and showed up well. Practice was continued until after dark through the ingenuity of one of the players who gave the ball two coats of white lead and a coat of enamel. Practice consisted of the ends following the ball, bucking the line, scrimmage, and signal work.

Today's work will be mainly signal practice and work for the ends following the ball. Wednesday's work will be the same as Monday's, with more signal practice, and Thursday's work will be nearly all signal practice.

Coach O'Brien would like to have the following men help coach the team: Proctor, Scully and Fletcher for the ends, Quirk for the linemen, Romy and Boynton for the centres, and McDevitt for the backs. All these men have had more or less experience in football, and they could certainly help the 1917 team win by coming out and assisting in practice a few times. Positively no man has been picked for any position and the choice of the team will depend largely upon the candidates' faithfulness at practice the next three days.

Manager Atkins will give out the tickets for Field Day.

**1916 Tug-of-War.**

The remaining candidates for the Sophomore Tug-of-War Team had their strength tests taken yesterday. All those men who for any reason have not had their tests taken are to report to Manager Sully at the Gym today.

**1917 Tug-of-War.**

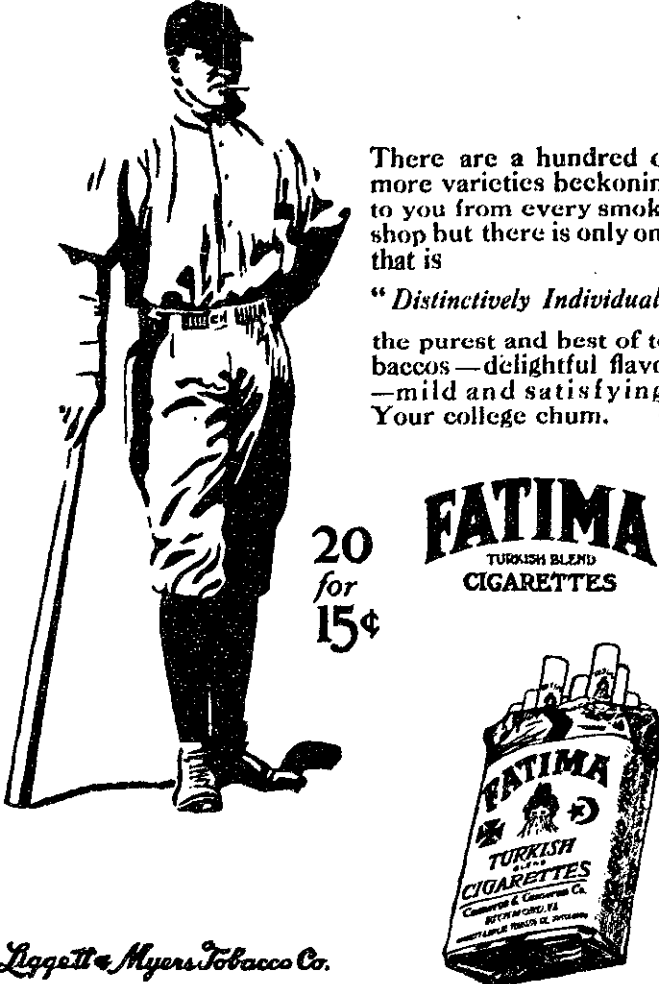
The 1917 Tug-of-War Team continued their practice at the Gym yesterday afternoon. The squad of about 40 men were divided into two teams and were pitted against each other for several long pulls, some good practice resulting. Later two picked teams were matched against each other, one being a provisional team for Field Day. This is not definite, however, and several changes will probably have to be made. The men have been pulling together much better the last two or three days and the coach predicts a victory over the Sophomores on Field Day. It is probable that the team will be announced tomorrow evening, but the coach wants all the men that have been pulling to report all the succeeding days until Field Day, and aid their team to victory.

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Next Wednesday, Nov. 5, at 6.00 P. M., the Catholic Club will hold a dinner and meeting here in the Union. Mr. J. O'Connell Galvin, who is the correspondent on Irish affairs for the Boston American, will be the speaker of the evening, and is well posted on the Irish question, and is well known for his rousing talks.

The business meeting is a very important one, as the preparations for the annual dance will be started at this meeting. The election for the 1915 and 1917 representatives on the Executive Committee will also take place at this meeting. The ballots for this election will be distributed at the meeting. All nominations for these offices must be handed in at the Cage by Tuesday noon.

**COURSE II TRIP**  
**Men Inspect Large Engines of Scandinavian Vessel**

Yesterday afternoon fifteen more members of the Mechanical Engineering Society visited the Scandinavian ship "California," docked at the Mystic Wharf in Charlestown. The "California" is an 11,000-ton vessel and is equipped with two large Diesel internal combustion engines of the twin type. These engines develop about 2,600 horsepower and require a pressure of 20 atmospheres in the low pressure cylinders and 60 atmospheres in the high pressure cylinders.

When in port steam is used for hoisting, and oil is used to heat the boilers. Two smaller internal combustion engines are used for running the dynamos, pumps and auxiliaries.

Professor Riley went with the party and helped explain the principles of the power plant. The officers of the ship were very kind to the men and made the visit to the ship a very pleasant one. The men were taken into the room containing the electric steering gear and all its workings were carefully explained.

Although no plans have been arranged it is the intention of the officers to arrange several trips in the future to large plants in and around Boston. The officers of the Club are trying to enroll all Juniors in Course II in the Society and wish that all third year men not members would see some of the officers and get enrolled in the Society.

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**FIELD DAY REGULATIONS**  
(Continued from page 1.)

at the Union at 6.30 P. M. Saturday, Nov. 9, 1913.

Points will be counted as follows:  
Football Game, four (4) points; Relay Race, three (3) points; Tug-of-War, two (2) points.

Events will be started as follows:  
Tug-of-War (first trial) . . . . . 2.30 p.m.  
Football (first and second quarters) . . . . . 2.35 p.m.  
Relay Race . . . . . 3.10 p.m.  
Tug-of-War (second trial) . . . . . 3.20 p.m.  
Football (third quarter) . . . . . 3.25 p.m.  
Tug-of-War (third trial, if necessary) . . . . . 3.45 p.m.  
Football (fourth quarter) . . . . . 3.50 p.m.

Teams must be ready to be on the field five minutes before time designated.

Substitutes—The names of substitutes eligible for numerals (Football 5; Relay Race and Tug-of-War, 2; must be given in writing to the Chairman of the Advisory Council on the Field, not later than 2.15 P. M., November 7th.

All Events: Any direct interference by any coach or spectator may render the side assisted liable to disqualification by the referee, and his decision shall final. One coach (counter) for each team is allowed in the Tug-of-War.

The management of the games and all matters connected with same is vested in the Advisory Council, and may be delegated to any sub-committee it may appoint.

The Football, flags for Relay Race, and flags and rope for Tug-of-War, will be provided by the Advisory Council, and Referee Umpires, Timers, and other officials will be appointed by it.

J. Arnold Rockwell.

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