

THE TECH

VOL. XXXIII. NO. 54.

BOSTON, MASS., MONDAY, OCTOBER 20, 1913.

PRICE TWO CENTS

CROSS-COUNTRY RUN OVER NEW COURSE

**Men Run Well Over Varied Ground
—Good Squad Out For
Melrose Trip.**

Saturday afternoon about 25 men went out to Melrose for a Hare and Hounds run over a new course. The run was a real cross-country affair and blinds were numerous and successful. The Hares, Baker '14 and Gray '16, were familiar with the country, and were able to swing off in all direction to the bewilderment of those who followed, guided by the scanty trail of paper. They started about five minutes ahead of the slower squad and ten minutes ahead of the faster one.

The slow squad had not gone half a mile before it met with trouble which resulted in such a loss of time that the second squad came up to within a hundred yards before matters were straightened out. Before long the two squads had lost their identity and the men advanced as one team. All went well for about a half mile when a tempting road through the woods led them astray again. After a half mile of road, continually getting worse, the order to return was given. After this no serious slips were made, although indecision caused a halt more than once. The road went across fields and fences through woods, marsh lands and slightly on the road. This perpetual change of ground kept the men on the jump, although jumping with soggy shoes was not all the pleasure it might have been.

About a half mile from the finish a dozen of the men who were in front lined up and raced for the rest of the eight miles.

Throughout the race Capt. Nye kept the men bunched as much as possible, but it was a difficult task. Of the men out, Newlin '14, Graff '16 and Brown '17 showed up exceptionally well. The former ran easily and led the pack home at the finish. Coach Kanaly ran with the men and was well pleased with the showing made, and hopes that everyone who is out will stick to his work with enthusiasm.

The order of finish follows: Newlin '14, Graff '16, Brown '17, Cook '15, Benson '16, Wilkins '14, Donnelly '17, Nye '14, Guething '16, Best '15, Peaslee '14, Parker '17. Among the others that ran are: Pollard '15, Jennings '15, Enesbuske '15, Demond '17, Brock '17, Hastie '16, Goldstein '16, Murdough '16, Currier '14.

According to statistics recently compiled by the Yale News, 747 Freshmen have entered the university. Of this number, 391 are in the academic Freshman class, and 356 in the Scientific School.

Ohio University has received \$20,000 from Carnegie for the enlarging of the library, which he gave to the institution originally.

FRESHMEN LOSE GAME TO ST. JOHN'S PREP

**Gould and Devlin Play Well For
Respective Teams—Many
Forward Passes.**

The Freshman Football Team was defeated Saturday at the Columbus Oval, Danvers, by the St. John's Prep School team. The Tech men put up a plucky showing against their much heavier opponents, and give promise of developing, with practice, into a fast team.

St. John's kicked to 17 at the beginning of the game, and after a few plays gained possession of the ball again on a fumble. For the rest of the quarter the ball changed hands frequently, remaining in Freshman territory. Early in the second period, Devlin carried it over for a touchdown, also kicking the goal. St. John's second score came on a brilliant 45-yard forward pass over the goal line to McDonough. The attempt at goal failed, and the half ended with a score of 13 to 0. In the second half, the Freshmen seemed to show more fighting spirit. Thompson made a 25-yard run, and three successive forward passes to Gould and Wood netted 50 yards. A fourth forward pass, however, was intercepted, and carried nearly to '17's goal. The third touchdown for St. John's also came from a forward.

The playing of Devlin, Murphy and Lynch for St. John's, and of Gould, Wood, and Farnsworth for the Freshmen, featured. The lineup:—

St. John's.	Tech '17.
M. Murphy, le	re, Wood
Donohue, lt	rt, Lee
Cleeb, lg	rg, Rowe
McLaughlin, c	c, Bell, Tuttle
Kelly, rg	lg, Johnson
Lufkin, rt	lt, Welcome, Whitney
McDonough, re	le, Babbitt, Stroud
Lynch, qb	qb, Farnsworth
J. Murphy, lhb	rhb, Thompson
Devlin, rhb	lhb, Gould
Jenny, fb	fb, Gramsdorff, Duncan

Score—St. John's 20. Touchdowns Devlin 2, McDonough. Goals from touchdowns—Devlin, 2. Umpire—Beresford. Referee—Nugent, Holy Cross. Head Linesman—O'Connell. Time—ten-minute periods.

BROOKLINE CHURCH SOCIAL

**Dr. Gifford of First Baptist Church
Extends Invitation to Tech Men.**

Dr. Gifford, pastor of the First Baptist Church of Brookline, well known to Tech men who have heard him speak in the Union as a T. C. A. speaker, extends an invitation to the students at the Institute to attend a social given by his church. The social will be held next Wednesday evening, October 22d, and will be open to all students from the various schools and colleges in the city. It is expected to be a very enthusiastic "intercollegiate event," and Dr. Gifford hopes to see Technology well represented.

SENIOR ELECTIONS TO CLOSE TUESDAY

**Big Field Getting Out Record Vote—
Dorrance, Fiske, Fox For
President.**

The ballots for officers of the Class of 1914 are due Tuesday, Oct. 21, at 4.00. A. C. Dorrance, C. P. Fiske, and C. E. Fox are the candidates for president. All three have been prominent in Institute activities and are members of Osiris.

Fox was on his class football team was one of the class representatives on the M. I. T. A. A., and won a T. A. A. in the Brown meet his freshman year. His sophomore year he was again on the football team and M. I. T. A. A., also on the class basketball team and the Technique Election Committee. His junior year he was on the Junior Prom committee, won a "T" in the broad jump at the Intercollegiate, was secretary-treasurer of the M. I. T. A. A., American Chairman of the Cosmopolitan Club, and on his class basketball team.

Dorrance was vice-president of his class his freshman year, was on the relay team and tug-of-war. His second year he was manager of the class Election Committee. Last year he was editor-in-chief of the Technique.

Fiske, in his freshman year, was on the tug-of-war team, the M. I. T. A. A., and was assistant stage manager of the Show. His second year he was again on the tug-of-war, was on the class executive committee, and assistant stage manager of the Show. Last year he was on the executive committee and stage manager of the Show.

Of the candidates for Vice-President: Williams is a member of the Biological Society, and was on the class football team. He was also the captain of the basketball team.

Richmond is the president of the Electrical Engineering Society, was vice-president of the Wireless Society, and the Gun Club.

Doremus was a member of the class football team and the Glee Club Quartet, of which he was manager. He was also on the Technique Electoral Board of the class. Tug-of-war.

For Treasurer: Hale is a member of the Executive Committee of the Chemical Society.

Ober is a member of the Mandolin Club, the Tech Show Orchestra, and the Program Committee of Civil Engineering Society. Tug-of-war.

For Secretary: Treat was captain of the Wrestling Team, and is a member of the Institute Committee. Mayer has been on the Executive Committee of the Class of 1914 for three years.

MacEnery is the secretary of the Architectural Society.

For Executive Committee: Hamilton is colonel of the Cadet Regiment, a member of the Executive Committee of the Institute Committee, treasurer of the Chemical Society, and secretary of the Finance Committee.

(Continued on page 4.)

TECH SHOW VACANCY TO BE FILLED SOON

**Candidates For The Position Of
Business Manager To
Meet Tuesday.**

Last year a vacancy was caused in the business department of the Tech Show by the death of Stephen T. Woodbridge '15, who would have been the present business manager of the Show. Since this is the most important department in the organization it is necessary to fill the vacancy immediately so that work may be started before Christmas. The position is open to all men of the present Junior class. Any men who have had any business experience whatever and would like to try for the position is expected to be at the Show office tomorrow afternoon at 5 o'clock. General Manager Walter P. Keith '14 will give the particulars concerning the position and a general outline of the duties of the business manager.

CHEMICAL SOCIETY

**Dinner For All Men Interested In
The Chemical Courses.**

On Friday evening, October the 24th, the Chemical Engineering Society is to have a dinner in the Union dining room at 6.15 P. M. All men taking a chemical course are invited.

Professor Norris of Simmons College will speak at the dinner, and the excellent program arranged by the committee is expected to bring out a large body of students. The results of the special election for the Program Committee will be announced at the meeting. Many members of the Faculty will be present and an excellent opportunity for the Freshmen to get acquainted will be offered.

The tickets for the dinner are 50 cents and may be obtained from R. H. Dickson, the president of the Society.

CALENDAR.

Monday, Oct. 20, 1913.

4.00—1917 Relay Team—Field.
4.00—1917—Football Team—Field.
4.00—1917 Tug-of-War—Field.
4.00—1917 Tug-of-War—Oval.
4.00—1916 Relay Team—Field.
4.00—1916 Tug-of-War—Oval.
5.00—Mandolin Club—Union.

Tuesday, Oct. 21, 1913.

4.00—1914 Ballots Due—Cage.
4.00—1917 Relay Team—Field.
4.00—1917 Football Team—Field.
4.00—1917 Tug-of-War—Oval.
4.00—1916 Relay Team—Field.
4.00—1916 Football Team—Oval.
4.00—1916 Tug-of-War—Oval.
5.00—Candidates for Business Manager—Tech Show Office.

Wednesday, Oct. 22, 1913.

4.00—1915 Ballots Due—Cage.
Evening—Union Church Reception.

Columbia will celebrate the fiftieth anniversary of her school of mines this spring.

THE TECH

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MONDAY, OCTOBER 20, 1913.

The unfortunate misunderstandings in the 1916 elections, while not directly the result of a poor class constitution, could undoubtedly have been cleared up without resort to the Institute Committee had the constitution been clear and explicit on the powers of the governing board and the balloting committee. The powers of neither are clearly defined and limited, and the present chaos has resulted.

The class constitutions, by the very nature of their adoption, are in practically the same shape as when first drafted years ago. The entering class has always taken the constitution of the Junior class, read it, and almost invariably adopted it as it stood. Even should it be changed at that time, the results would tend to be harmful, for the Freshmen are in no position to appreciate the problems of class government which lie before them. Once adopted, little chance of amendment is offered. Few of the class knew its provisions, and except in instances like the present little cause arises for its constitution. As a result the documents in use are faulty in many respects, have many omissions, and are capable of much improvement.

A new and uniform constitution, prepared by the older and more experienced men of the Institute, seems the wisest way out of the present situation. To this end we suggest that the Institute Committee take hold of the matter, prepare such a constitution, and submit it to all the classes for adoption.

It is not expected that all the men of any one course will show enough spirit to pay their class dues, but it is customary for at least a handful to do that much toward the maintenance of the activities of their class. Word has reached us that this is not the case with the men of Course XIII. It also appears that their professional soci-

ety is not represented at meetings of the Institute Committee as regularly as might be; in fact, that until the enforcement of the rule depriving of representation any activity present at less than every other meeting, the Naval Architects' average attendance was three meetings per year.

We dislike to criticize in this column unless it is absolutely necessary, but it looks as if the naval architects are taking that position among the courses which the Sophomores, by their lack of interest in the Field Day events, are assuming among the undergraduate classes.

MANDOLIN CLUB

There will be a rehearsal of the Mandolin Club this afternoon in the Union at five o'clock. All men should get there as early as possible in order to get their instruments tuned before that time. Every rehearsal from now on will be an important one since there will be only a few weeks before the first concert. This concert will be at the Franklin Square Hotel on November 11, and will be followed by a dance.

ENGINEERING AND SCIENTIFIC NOTES

The mercury vapor arc lamp as it is used today must be started by a tilting apparatus worked automatically or by hand. In certain lines of experimental work such an apparatus is a great encumbrance, and Mr. G. B. Burnside has endeavored to eliminate this by devising a form of lamp which requires no tilting. His lamp tube is provided with a small vessel near one of the electrodes, preferably the cathode, and into this projects a recess from the outside which contains a heating element. This consists of a coil of platinum wire wound upon a suitable support which may be removed from the recess without interfering with the vacuum of the tube. The coil is connected either in series or in shunt with the lamp itself.

Before starting the vessel is full of mercury which forms a continuous connection between the two electrodes. When the current is turned on the coil becomes incandescent and its heat goes to raising the temperature of the vessel and the mercury, there being no appreciable loss by radiation into the surrounding air. Very little heat is required because the first bubble of mercury vapor formed rises to the constricted portion of the tube and breaks the circuit of mercury vapor, thus starting the arc. The platinum wire of the heating element can be made of such thickness that it does not emit heat when the lamp is working, but becomes incandescent when the lamp is started, the action being quite automatic.

In truth, all the divisions of engineering are so closely allied that it is impossible to disassociate them; and, on this account, a really up-to-date engineer, while trained thoroughly in all that relates to his special line of work, must have a broad, general knowledge of all the other lines.—Waddell & Harrington.

You must assure yourself of reasonable quiet and freedom from interruption, if you would study effectively. Form the habit of absolute attention to the task in hand. Keep parallel all the forces of your mind in the direction toward which your work tends. Be master of your study hours, and do not permit any one to interrupt you.—Shenchon.

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WINTON PARTICULAR STAR OF FIRST MEET

Wins Both Dashes and Places in Shot Put—New Men Show Up Well.

Technology's first handicap meet of the fall season was held Saturday afternoon at Tech Field, and several of the new men showed up well, C. D. Winton '17 being the particular star of the meet. Winton, who was prominent in athletics at Exeter last year won both the 75 and 150 yard dashes the first from the yard mark and the second from 10 yard.

T. H. Guething '14, captain of the team this year, won the 660 and was fourth in the 350, both from scratch and in addition won the shot put with the help of a 3 foot handicap.

Several Freshmen novices showed to good advantage, making the outlook for the class relay very favorable.

The summary:—

75 yard Dash (final)—Won by C. D. Winton '17, 5 yds.; second D. J. Comiskey '16, 3 yds; third, L. Laurason '16, 5 yds.; fourth, W. J. Sullivan '17, 4 yds. Time 7-4-5 sec.

150 Yard Dash—Won by C. D. Winton '17, 10 yds.; second, C. W. Loomis '16, 3 yds.; third, W. J. Sullivan '17, 8 yds.; fourth, D. J. Comiskey '16, 5 yds. Time 15-3-5 sec.

350 Yards Dash—Won by T. H. Ruff '15, 12 yds.; second K. Dean '16, 12 yds.; third, F. H. Kennedy '15, 12 yds.; fourth, T. H. Guething '14, Time, 41-2-5 sec.

660 Yard Dash—Won by T. H. Guething '14, scratch; second, K. Dean '16, 10 yds.; third, C. Dean '17, 25 yds.; fourth, S. Lapham '17, 25 yds. Time, 1 min., 31-3-5 sec.

High Jump—Won by C. S. Read '16 (2 in.), 5 ft. 5 in.; second, W. I. Sullivan '17 (scratch), 5 ft. 2 in.; third, O. H. Hayes '16 (6 in.), 5 ft. 4 in.; fourth, T. H. Huff '14 (4 in.), 5 ft. 2 in.

Pole Vault—Tie between L. Laurason '16 (scratch), and H. A. Knapp '17 (1 ft.), at 10 feet.

Shot Put—Won by T. H. Guething '14 (3 ft), 36 ft. 1-2 in.; second, C. D. Winton '17 (scratch), 35 ft. 9-1-2 in.; third, C. E. Fox '14 (2 ft.), 35 ft. 1 in.

Broad Jump—Won by C. E. Read '16 (6 in.), 20 ft 3-1-2 in.; second, C. E. Fox '14 (scratch), 19 ft. 4-1-2 in.; third, T. K. Hine '14 (2 ft), 17 ft 3-1-2 in.

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SENIOR ELECTIONS

(Continued from page 1.)

Beach was statistician of the Technique.

Newlin was a member of his class Cross-Country Team.

Of the candidates for the Institute Committee: Snow was treasurer of the Cosmopolitan Club.

Waitt has been on the Institute Committee for three years, a member of the Point System Committee, managing editor of THE TECH, and a member of the Calendar Committee. He was also president of the Massachusetts Federated College Progressive Clubs.

Harper has been prominent in the Architectural Society.

Whitwell was publicity manager of the Tech Show for two years, and a member of the Class Executive Committee, in 1913.

Duff has been a principal in the Tech Show and a member of the Class Basketball Team.

Dawson was on the Tug-of-War Team, treasurer of the Technique, and a member of the Electoral Committee.

Of the candidates for the M. I. T. A. A.: Peaslee was the Chase Captain of the Hare and Hounds, and is treasurer of the Civil Engineering Society.

Hiller was on the Technique Electoral Board, the Junior Prom Committee, and a principal of the Tech Show.

Morrison was on the Class Football Team.

McPherrin has been Chairman of the Union Committee.

The complete ballot is as follows: For President—A. C. Dorrance, C. P. Fiske, C. E. Fox.

For Vice-President—F. W. Williams, H. B. Richmond, R. C. Doremus.

For Treasurer—C. H. Ober, B. H. Hale, J. B. Reber.

For Secretary—H. W. Treat, H. A. Mayer, D. R. McEnary.

For Executive Committee—L. F. Hamilton, Geo. Beach, Eric Newlin.

For Institute Committee—L. W. Snow, A. H. Waitt, S. H. Harper, G. E. Whitwell, I. B. Duff, E. E. Dawson.

For M. I. T. A. A.—A. F. Peaslee, A. D. Hiller, H. A. Morrison, W. L. McPherrin,

SPECIAL ELECTION

Ballots For The Chemical Society Due at 4.00 P. M. Oct. 23.

The ballots for the special election of the Chemical Engineering Society are now ready and the names of S. J. Spitz and R. P. Dinsmore are printed on the ballot. The election is for the Program Committee of the Society and all members voting must have paid their dues up to date in order that their votes be valid.

Since the results of the election are to be announced at the dinner on Friday evening, all ballots must be handed in at the Cage before 4 P. M. October 23.

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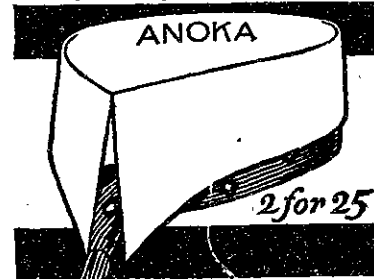
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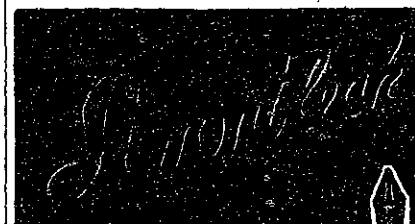
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