

THE TECH

VOL. XXXIV. NO. 23.

BOSTON, MASS., THURSDAY, APRIL 30, 1914.

PRICE TWO CENTS

HOLY CROSS ENTRIES FOR SATURDAY MEET

Tech's Opponent Has Many Good Men—Especially Upon Relay Team.

When Tech meets Holy Cross Saturday, there will be an interesting struggle to see whether Tech can win, for a victory will mean excellent prospects in the future events to be held at the Stadium. The Holy Cross team is made up mostly of men who have had experience and have established records. Captain Trowell won the 40-yd. dash at the B. A. A. meet in 1913 and was the All-interscholastic Sprint Champion of the State of Maine while a student in the Bangor High school. Lee from Natick High school won third place at the New Englands last spring, beating Captain Guething. He together with Sullivan of Lawrence and Kelley ran on the Holy Cross Relay last winter at the B. A. A. The relay made the third best time, thus beating Tech's time against Dartmouth.

Brawley of Medford High school was all-interscholastic center there for three years. Higgins was second in the half-mile at the New Englands last spring, putting up a fine show against Tabor of Oxford, formerly of Brown. Dumpy was on the relay at the Penn Carnival and was second in the 1000-yd. run at the B. A. A. games last winter. Grady got first place in the hurdles at the Coast Artillery meet last winter.

These are a few of the men who will appear at Tech Field Saturday. With proper support our track men should win but without a reasonable

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TRACK NOTICE

Men Entering Holy Cross Meet Must Report Today.

If weather conditions continue as in the past few days, track practice will be held as usual today at the Tech Field. In case the rainfall is considered too heavy, notices will be posted at 1 p. m. in Rogers, Walker and at the Union.

Since there will be no work Friday the practice today will be very important and the coach urges that all men who are to run in the Holy Cross meet Saturday report as early as possible this afternoon.

NO ANDOVER GAME

On account of rain the baseball game between the Freshmen and Andover to be played yesterday afternoon was cancelled. This makes the fourth game that the Freshmen have had to call off on account of weather conditions.

MECHANICALS BANQUET WITH NOTED SPEAKERS

Election Returns Give Purinton As New Chairman For Society.

"Technical school is not the education of an engineer,—it is merely the foundation upon which the complete structure of education is built by work, experience and further study." So Mr. Chas. T. Main, '76, expressed his ideas of the engineer and his training before the banquet of the Mechanical Engineering Society last evening.

Mr. Main, who has been prominent in the American Society of Mechanical Engineers and is the president of the Boston Engineers' club, and Mr. William Kent, author of Kent's Hand Book and well known engineer, were the principal speakers on the program. Mr. Main, who was introduced by Chairman Treat, gave much valuable advice to young engineers. He dwelt at length upon the code of ethics which is engaging the attention of the engineering societies at present. He closed with a statement of his opinion of the elements demanded in a successful engineer.

Mr. Kent brought the greetings of the parent A. S. M. E., of which he is a charter member, and centered his remarks upon the relation of "Engineering and Horse Sense." He

(Continued on Page 3.)

FRESHMEN ADVISORS

Upper-Classmen Urged To Attend Meeting This Noon.

This noon, at 1.30, there will be a meeting in the Union of all upper-classmen who wish to act as advisors for the Freshman class of next year. Dean Burton, who is in hearty sympathy with this branch of the T. C. A.'s work, is expected to be present. It is to be hoped that enough men will report to fill the vacancies left by graduating Seniors.

Mr. L. R. Talbot, the General Secretary of the T. C. A., will also be at the meeting to outline the plan and explain any details desired.

DRILL THIS AFTERNOON

Thursday Battalion Will Report At Two O'Clock.

The Thursday battalion will drill this afternoon at the usual hour. It is important that all men attend, for some of the time is to be given up to explanation of the rifles, naming of parts and general information. Skirmish work will also be reviewed and perfected. This is the last drill before the governmental inspection, which comes next Wednesday.

GENERAL ELECTRIC HEAD GIVES TALK

Mr. E. W. Rice Speaks on Rapid Progress of Electrical Industry.

At the annual banquet of the Electrical Engineering Society, as the guests of Prof. Jackson, at the Engineers' club last evening, the following officers were elected: President, Lorin G. Miller; vice-president, K. K. Boynton; secretary, D. B. Baker; treasurer, A. J. Hahn.

Mr. E. W. Rice, president of the General Electric Company, was the speaker. He reminisced about the growth of the electrical industry. He took up the invention and gradual perfection of the arc light by Professor Thompson and himself. Then the lightning arrester and circuit breaker, how they are fashioned and their first crude form, were dwelt upon. Mr. Rice also spoke of the erroneous notions which prevailed thirty years ago concerning various electrical phenomena and how they hindered the growth of the electrical industry. The lack of good instruments was also a drawback. Mr. Rice believes, however, that the great progress of the electrical science as contrasted to the other sciences is due to the fact that the electrical investigator had more delicate means through better instruments for measuring the quantities with which he was working. The invention of the transformer and its effect upon lighting arrangements was next taken up.

The traction problem occupied the latter part of Mr. Rice's talk. He spoke of the carbon brush at length. Without it, in Mr. Rice's opinion, we would not have the street railway system of today. The first attempts at electric railroading with the weak motors of that time, without carbon brushes, only resulted in disaster. Cars could neither be depended upon to keep time nor to even run. It was necessary to "nurse" the motors along with the greatest care. It was the carbon brush that revolutionized all this. It allowed the motors to run for an unlimited distance and prevented sparking. The street railway industry immediately made rapid strides.

In conclusion Mr. Rice spoke on "big business." He claimed that the present current idea that electrical trusts are detrimental to the welfare of society is exaggerated.

FRESHMAN BOARD

There will be a meeting of the Executive Board of the Freshman class in the Union at 4 o'clock on Friday, May the first. Important business in regard to various financial matters is to be taken up and a full attendance is desired.

FOURTH DIMENSION GOES TO DEFEAT

Prof. Wilson Explains Its Everyday Use—Name Merely Conventional.

Prof. Wilson's talk on "The Fourth Dimension" last night at the Chemical Society smoker proved to be one of the biggest drawing cards of the year. Prof. Wilson spoke for a full hour to an audience which completely filled both rooms at the Union, and which, instead of being tired at the close, kept him on his feet for almost another hour answering questions.

Inasmuch as we live in a world of but three dimensions, it is impossible for us to visualize a fourth. Prof. Wilson, however, explained that this was unnecessary, since the whole idea and indeed the name "fourth dimension" is merely an effort to put algebraic language into geometrical forms, to perhaps make it more easy of comprehension. He explained that equations in four, five or more unknowns, which are not at all uncommon in many lines of ordinary work, are, if the simile is followed out, expressions in four, five or more dimensions, but to consider them as such involves much more complicated reasoning than to consider them merely from an algebraic point of view.

President Dickson of the Society announced that the date of the annual banquet had been set for Tuesday, May twelfth, the place being the Copley Square Hotel, and the price \$1.25 per plate. He also announced that Prof. Talbot is to talk to the Society in the near future, the date and subject to be given out later.

WEATHER

For Boston and vicinity: Rain, easterly to southeasterly winds.

Ad K

CALENDAR

Thursday, April 30, 1914.

- 1.30—T. C. A. Advisors. Union.
- 2.00—Thursday Battalion Drill.
- 4.00—Crew Picture.
- 5.00—Institute Committee Meeting.
- 8 Eng. C.
- 6.00—Tennis Entries Close.
- 7.45—Architectural Engineering Society Smoker.

Friday, May 1, 1914.

- 1.30—Suffragist Convocation. Huntington Hall.
- 4.00—1917 Executive Board.
- Saturday, May 2, 1914.
- 2.30—Holy Cross Track Meet. Field.

IN CHARGE OF THIS ISSUE.

Editors: W. A. Houser, '15; G. H. Stebbins, '17;
Associates: P. N. Cristal, '17; E. W. Rounds, '17.

THE TECH

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THURSDAY APRIL 30, 1914.

A glance at the alumni register cannot help but impress one with the variety of the fields represented. But it seems worthy of especial comment that a technical institution—whose work to some seems the narrowest of specialization—should have contributed to the science of economics such a unique man as Roger W. Babson, '98, whose talk was reported yesterday. As the head of an organization whose line of work seems to be unique, he has brought to the world of business a singularly effective combination of engineering and economics.

It is the engineering method to plot in diagram form the results of observations in order to make them visible to the eye for a quick comprehensive glance; to look for underlying laws and, failing to find them, to make the nearest assumption which will fit the case. It is largely by applying the graphical method that Mr. Babson has made his "Business Barometers" so widely used as they are today. In the matter of business forecasting, where the economic laws cannot be expressed in x, y, z terms, he has drawn from the more comprehensible chart the tendencies of future conditions.

The important fact to us as engineers is that the engineering attitude is to be applied, not alone to bridges and machines, but to all other phases of life to which it is possible to apply them.



Little difficulty is expected in getting the first two places in the hundred and the first in the quarter, mile and two-mile with the stars that we have in those events.

The opinion of track men at Bowdoin last week when the team went there was that Technology would probably be the winner in the New Englands this spring.

There will be plenty doing at the field Saturday with the track meet and the tennis match against Holy Cross.

Tom Guething is out for first in the quarter on Saturday. Lee jumped Guething at the finish of the double furlong in the N. E. I. C. A. A. meet last spring, and Guething is out for revenge.

Cook is confident of making a good-sized dent in the Tech two-mile record in Saturday's meet, and from the form he showed in the Bowdoin meet, a warm day should find him running close to the 9.45 mark.

The Holy Cross meet will be a much more interesting one to watch than the one at Brunswick. Both teams are strong in the running events and weak in the weights, insuring fairly close competition in every event.

The half on Saturday will show some good running when "Cy" Guething and Higgins get together. Higgins ran second to Taber in his record breaking half at the New Englands last year, but "Cy" is a strong finisher and will take lots of beating.

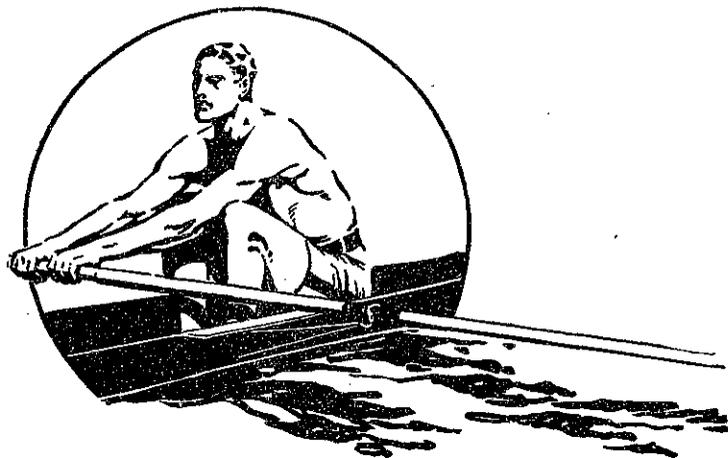
TENNIS ASSOCIATION

Although neither the team which will represent M. I. T. nor that representing Holy Cross in the tennis tourney at Jarvis field Saturday has been announced as yet, the Technology team will probably be picked from the following men: H. R. Stewart, E. R. Goodwin, R. A. Warren, H. V. Fay, E. G. Polley, F. L. Hurlbutt and D. E. Woodbridge.

The entry list for the Spring tournament closes tonight at 6 o'clock.

ATHLETIC ASSOCIATION

Everett K. Briggs, '17, of Johnstown, N. Y., was elected to the position of Assistant Manager of the Track Team at a meeting of the M. I. T. A. A. held Tuesday afternoon. He prepared for Technology at Andover, and is a member of the Phi Kappa Sigma Fraternity. A special award of "T" was made to James M. White, '14, the manager of last year's Track Team.



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CREW PICTURES TO BE TAKEN TODAY

Poor Weather Makes Postponement Necessary—All Men Out Today.

Time trials and three and four mile endurance rows will be the work of the crews from now until the first race on Saturday, May 9th. The coach has narrowed his squads down to first and second crews, although all the men who reported on the first day are still rowing, for no one has been cut, and every afternoon the men are out to improve their form.

The Sophs have had the hardest work to date, for their form has not been up to what was anticipated. They have been out on several long rows trying to develop more regularity in their sweep. At present the rowing is too individual and not sufficiently machinelike, but now that four men have been almost decided upon, rapid development into true racing form can be looked for.

The Freshmen still continue to row in their good form, but have been rather handicapped by the loss of Lee, who has been out temporarily on account of a sore throat. MacDonald and Dunning have secured their positions at stroke and two respectively, but at the starboard positions Lee, Brooks, Bertlesen and Toue are still fighting it out.

The pictures which were to be taken yesterday had to be postponed until today on account of the poor weather. They will be taken today without fail and all men must be on hand at 4 o'clock.

INSTITUTE COMMITTEE

Officers of New Freshmen Class To Be Appointed.

The Institute Committee will hold a very important meeting this afternoon at 5 o'clock at which all members are urged to be present. The main purpose of the meeting will be to appoint the temporary officers for the incoming class of 1918.

The officers to be appointed, all from the class of 1916, are as follows: A temporary chairman, under whose supervision the class of 1918 will be until the election of their own class officers after Field Day; three temporary managers of the three respective Field Day teams; and a temporary treasurer. These five officers will be a sub-committee to the Institute Committee and will be held responsible to that committee for all affairs of the Freshman class. The temporary chairman and temporary treasurer will act as president and treasurer respectively of the new class. During the first two weeks of the school year the three team managers will conduct competitions for the managementship of their respective teams.

Besides the appointment of the above-named officers, reports from all the standing committees of the Institute Committee will be heard.

NOMINEES FOR OFFICE ANNOUNCED BY CIVILS

Annual Banquet To Be Held Soon—Prominent Boston Men Will Speak.

The annual banquet of the Civil Engineering Society will be held at the Copley Square hotel on May 7th at 6.30 p. m. The speakers obtained for that night are as follows: Mr. Desmond Fitzgerald, Am. Soc. C. E., and a member of the Corporation; Mr. H. P. Eddy, president of the Boston Society of Civil Engineers, and a member of the firm of Metcalf & Eddy, consulting hydraulic engineers; and Professor C. M. Spofford, '93, head of the Department of Civil Engineering at the Institute. The tickets for the banquet are one dollar and are for sale by the officers of the Society.

The following is the list of nominees for the offices of the Society for the coming year:

President: F. C. Foote, '15; J. M. Livermore, '15; H. C. Thomas, '15; C. W. Wood, '15.

Vice-President: J. S. Gallagher, '15; W. F. Pike, '15; R. V. Tiffany, '15.

Secretary: H. R. Bennett, '16; F. B. Hastie, '16; C. J. Spear, '16.

Treasurer: C. L. Hall, '15; C. F. Wolfe, '15.

Asst. Treasurer: R. Alfaro, '16; C. W. Lawrence, '16; R. B. Walter, '16.

Program Committee (two from each class): S. M. Fox, Jr., '15; H. B. Pickering, '15; M. B. Pinkham, '15; J. A. Tobey, '15; M. P. Curtiss, '16; W. J. Farthing, '16; F. R. Foster, '16; E. W. V. C. Lucas, Jr., '16.

Executive Committee (three): A. H. Bond, '15; M. B. Dalton, '15; W. R. Holway, '15; C. W. Lovell, '15; C. L. Morse, '15.

Ballots have been left at the desks of the members, in the drawing rooms. These should be signed and left at the Cage by 4 p. m., Wednesday, May 6th. A few men, who have not paid their dues, can get their ballots by paying them and seeing the Secretary of the Society. The results of the election will be announced at the banquet.

MECHANICAL BANQUET WITH NOTED SPEAKERS

(Continued from Page 1.)

defined engineering as "the science and art of overcoming the resistances of nature, including human nature," and added that it might well be defined as "educated common sense." In touching upon the probable success of an engineer, Mr. Kent emphasized that the quality of leadership meant more than mere scholarship. The field which an engineer may enter is exceedingly broad, that of commerce offering great advantages for the future. He stated as his belief that the engineer would in the future have much to say and do with the accumulation and distribution of wealth.

The faculty of the Institute was represented by Professors Haven, Russell and Miller. Prof. Haven gave

(Continued on Page 4.)



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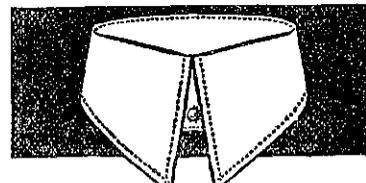
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MECHANICAL BANQUET WITH NOTED SPEAKERS
(Continued from Page 3.)

some important hints to Seniors looking for positions, and declared that of prime consideration is the business integrity of the employing firm.

Prof. Russell took his listeners back for a change to a period fifty-three hundred years ago with an interesting discussion of the probable origin of the pyramids. His remarks seemed to conclusively demonstrate that they are not monumental tombs of Egyptian kings, but were in their time gigantic astronomical observatories.

Prof. Miller concluded the formal speeches for the evening with a description of the A. S. M. E. and the advantages obtained by student membership in it. He emphasized the care taken to preserve the society's reputation for a high standard of integrity, and emphasized this as an important quality for the engineering student to cultivate.

The banquet, which was held at the American House, was attended by over seventy-five members of the Society. After the menu the chairman announced the results of the election of new officers. They were: Chairman, F. G. Purinton; vice-chairman, N. E. Kimball; secretary, H. E. Morse; treasurer, G. A. Palmer; governing board—F. L. Cook, W. R. Hanchett and O. C. Norris.

Printed copies of Tech songs were given to each man and between the speeches were sung to the great enjoyment of the guests.

HOLY CROSS ENTRIES FOR SATURDAY MEET
(Continued from Page 1.)

crowd of spectators they will not be at all sure of victory. Come out and yell for M. I. T. if you wish to help the team.

A full list of the Holy Cross entries follows:

100-yd.—Trowell, Kelley, Lee, Boland.

220-yd.—Kelley, Lee, Boland, Sullivan.

440-yd.—Lee, Kelley, Sullivan, Boland, Higgins.

880-yd.—Higgins, Dumphy, Holland.

1-mile—Higgins, Dumphy, La Chappelle, Donohue.

2-mile—La Chappelle, Donohue.

120-hurdles—Grady, Mooney.

220-hurdles—Grady, Mooney, Sullivan.

High jump—Coyle, Grady, O'Neill.

Pole vault—Grady, Ahern, Grown.

Broad jump—Trowell, Sullivan, Lee, Mooney.

Shot put—Brawley, Morrissey.

Hammer throw—Brawley, Lee, O'Connor.

Discus throw—Brawley, Morrissey, Dolan.

RIFLE CLUB TO HOLD ANNUAL MEMBERS, MATCH

Opportunity To Qualify For National Association Buttons.

Outdoor practice of the Rifle club has been going on for about a month at the Walnut Hill Range with great success and on Saturday, May 9th, it is announced that the annual "Members' Match" will be held. The conditions of this match are the same as those of the Intercollegiate matches, namely: At 200 yards, ten shots rapid fire, eight inch bull's-eye; at 300 yards, ten shots slow fire, sitting, eight-inch bull's-eye; at 500 yards, ten shots slow fire, prone, twenty-inch bull's-eye. There is only one Saturday left on which members can practice for this match, before the 9th. The prize is a bronze medal. All members have a good chance of winning this medal since the conditions of the match are as unfamiliar to the old men as to the new.

There will be no outdoor practice on Saturday, May 16th, as on that date a team representing M. I. T. will shoot in the Intercollegiate Outdoor Match against teams from other colleges. This team is composed of six men and will be picked on May 9th from among those making the best scores in the Members' Match.

On Saturday, May 23rd, an opportunity will be given to members to qualify for the "Marksman," "Sharpshooter" and "Expert" buttons given by the National Rifle Association. The qualifications are not difficult, so that little or no practice will be required for them.

Further information in regard to these matches and orders for rifles may be obtained from E. J. Casselman, '15.

ELECTION OF OFFICERS

Architectural Society Holds Annual Election.

At a meeting of the Architectural Society held yesterday afternoon in Room 42 Pierce the following officers were elected for the ensuing year:

President: H. P. Sabin, '15.

Vice-President: E. P. Norberg, '15.

Secretary: W. G. Sprague, '15.

Treasurer: H. W. Jackson, '16.

Executive Board: F. S. Whearty, '14; O. R. Freeman, '15; U. C. Scheiss, '15.

The smoker will be held this evening in Room 11 B. "Flat Slab Construction" will be the subject for the meeting.

The fourth annual tournament for the interscholastic titles in singles at Jarvis Field May 9th and 11th.

Tufts had thirty candidates report for the track squad, nine of whom were veterans.

Tufts had thirty candidates report for the track squad, nine of whom were veterans.

LOST

In Room 33, Engineering A, a copy of Kimball's College Physics, with name Ralph Millis. Contained loose sheets with formulae for computing alternating current. Please return to THE TECH lower office.

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