

THE TECH

VOL. XXXI. NO. 96

BOSTON, MASS., SATURDAY, FEBRUARY 10, 1912

PRICE TWO CENTS

NEARLY FIVE HUNDRED ENTERED FOR B. A. A.

Cream of Athletic World to Take Part in Meet of Back Bay Club Tonight.

With every seat sold and with the largest number of competitors ever entered in an indoor meet in this part of the country, the B. A. A. will hold their twenty-third annual invitation meet in Mechanics' Hall tonight, under the best possible conditions for such an affair. Over 450 athletes will take part and the cream of track and field men from all over the country will be present. This is about the only chance the people in this part of the world have of seeing both college men and outsiders of athletic distinction competing together, and by the way the seat sale was carried on it seems as if the track fans are taking full advantage of the chance.

Probably the most interesting event by Tech men will be the relay race with Dartmouth, but the Hunter Mile will undoubtedly be the one for the larger majority of the spectators. There are at present so many good men out for this event that it is impossible to pick a winner or even suggest one. Kiviat, Hedlund and Berna seem to be the possibilities for first place, but Taber of Brown, and Kimball, the junior champion for this event, will not be out of the race until the finish. Kiviat has a little advantage over Hedlund from his pre-

(Continued on Page 2, Col. 2.)

C. W. BRETT PRESIDENT.

Arlo Bates Read Three Stories at T. C. A. Gathering.

The Christian Association met last evening in the Union for a combined social and business meeting that proved most enjoyable.

Just after the group had settled down before the fire Professor Arlo Bates read three selections that represented extremes of literary production. His first selection was one of Balzac's "military" stories, called "Passion in the Desert," that received enthusiastic applause. Then followed Kipling's "The East and the West," and finally a Roumanian fairy story, "Stan Bolovan," whose author seems to be gifted with an undaunted imagination, and an ability for rescuing his hero from predicaments by naive schemes that were always ingenious, to say the least.

The gathering then proceeded to more serious affairs, and unanimously elected Mr. Clarence W. Brett president of the Association for the coming term. Subsequently there was a discussion as to the wisdom of adding singing to the present Thursday noon meetings.

Before breaking up the crowd had refreshments.

ART MUSEUM LECTURES.

The free lectures in the Art Museum this week will be given Sunday afternoon by Morris Carter and W. H. Kennedy. Mr. Morris will speak at 2.30 P. M. for a few minutes in the Gallery of Primitives, in the Department of Painting, on "Early Altar Pieces in the Museum Collection," and Mr. Kennedy on "South Italian Vases" in the first Greek vase room in the Department of Classical Art, at 3.15 P. M.

FRESHMEN TO HOLD IMPORTANT MEETING

Several Weighty Matters to Be Brought Up for Discussion.

The attention of the members of the Freshman class is called to the fact that an important meeting will be held in Huntington Hall at noon on Monday, at which everyone is earnestly urged to be present, as many important matters will come up for consideration. It is desired to make arrangement at this time for a big class dinner, at which the class pipes will be distributed. The committee arranged to have men in the Union for several days during the week so that those who desired pipes could inspect the samples and place their orders, but so few put in an appearance that final action has been delayed until this time.

Another matter to be taken up is the election of managers for the football and baseball teams. These elections will be carried out in the same way as the election of class officers, that is, nominations may be made by any member of the class, and then the final selection will be made by the committee. If time remains, a vote will be taken to ratify the class constitution. This is by far the most important meeting to be held this year and it is absolutely necessary that everybody attend.

N

N. E. I. A. A. MEETING.

Proposed Cross-Country Race to Be Discussed by Members.

An important meeting of the N. E. I. A. A. will be held this morning at 11 o'clock in the Hotel Lenox, which will be attended by M. L. Waterman, '13. The question of where the Spring meet will be held is to be decided, and the election of officers for the coming year will take place. A proposal of having a cross-country race will also be placed before the members of the association.

MUSICAL CLUBS' PICTURE.

The picture of the combined musical clubs will be taken at Notman's studio this afternoon at 2 o'clock. Every member of the Glee Club, the Banjo Club and the Mandolin Club is expected to be on hand promptly and in full dress. Members of the Banjo and Mandolin Clubs are requested to bring their instruments. It is hoped that this picture will make a valuable souvenir for each member, and to do this it must be complete.

VICTROLA CONCERT.

Last evening, before the Christian Association meeting convened in the Union, the members enjoyed a Victrola concert, consisting of scintillating contrasts planned to suit every taste. We had "Saskatchewan," "What Killed the Dog?" and not likewise, the "Prison Scene Trio" from Faust. After the Association took the main room by right of prior agreement, the Victrola and its audience moved into one of the other rooms, where they had an enjoyable hour more of lively miscelany.

TECH MEETS AMHERST AT HOCKEY TODAY

Institute Seems to Be Favorite Over the Purple and White Team.

Unless they have bad luck, the hockey team should add another victory to their score when they meet the Amherst team at Amherst this evening. They will not have an easy time, however, for the Amherst men are reported to have made a lot of improvement since the Williams game. They are rather slow in their skating, but handle the stick cleverly. Their defence is also very good.

The Tech men who will take the trip are: Captain Sloan, Manager Ranney, Storke, Harbutt, Yereance, Stucklen, Eichorn, Fletcher, McLeod and Whittlesey.

FRESHMEN GO TO LOWELL

1915 Men, Confident of Victory, Look for a Clean Sweep.

This evening those fleet-footed children of Mercury, the members of the Freshman track team, will leave this city to do battle with the veterans of Lowell High School. The men have been training under the watchful eye of Coach F. M. Kanaly, and give every evidence of putting up a very creditable showing.

In the dash and quarter the Freshmen have Barry, formerly of Mechanic Arts High School, and Hann from Brockline. Place has been putting up a very creditable showing, and these are looked upon as point winners. In the shot-put there are O'Brien, Crowell and Hann. O'Brien has pushed the pill 45 feet, which certainly books him for first honors in this event. The other men's distances range from 32 to 41 feet. Ercell Teeson, a former member of the L. H. S. track team, has been credited with jumping 5 feet 4 3/4 inches in competition, but in practice he has done much better than this, and it is hoped that he will show his old time form. With Wall and Lowell in the only long distance event of the meet, the mile, there is nothing to it. Lowell cannot even have a look-in.

Manager Weil informs us that the men will leave the North Station at 5.27, and that he hopes that the team will be supported by rooters from Tech "too numerous to mention." Let every one show up and be there with bells on.

1914 TRACK TEAM.

An announcement appeared several days ago in the Boston papers concerning a track meet between Phillips Andover and Tech, 1914. All knowledge of this affair has been denied by the authorities at the "Stute," and it is thought that the story must have originated from the up-state school, and through some error or other Tech was mistaken for some other school. Assistant Manager White has written to the management at Andover, and the report will be either confirmed one way or the other in a few days.

Too bad the Institute Committee couldn't find something better to do than to make official buttons.

Half orders of turkey should swell that Union balance quite a bit.

MECHANICALS VISIT STANLEY AUTO WORKS

Made Trip to Newton Yesterday to Learn of Factory Methods.

Forty members of the Mechanical Engineering Society made a trip to Newton yesterday afternoon to visit the Stanley Automobile Works. Mr. M. W. Dole and Mr. G. W. Swett, of the mechanical department, also made the trip. At the factory parties of ten men each were shown around by well versed guides, who lost no opportunity to explain to the men the inner workings of the various machines.

The first thing explained was the construction of the steel boilers which generate the steam. These boilers are made in 10-30 H.-P. sizes, the diameters varying from 14 to 30 inches, and the height from 16 to 20 inches. The bottom and sides are made by pressing from one continuous sheet of steel, while the head is pressed from a second circular piece. The head is placed in position, is held there by a few tubes, and iron bands are heated and shrunk on at both ends. Then the head is welded to the body in the oxy-acetylene flame. From one head to the other run fire-tubes of drawn copper.

These boilers are heated by gasoline which comes from the tank at 140 pounds pressure. The gasoline is vaporized by being led over its own flame before going to the fire-pan. To produce a sufficient draft the steam is exhausted into the draft pipe after the manner of locomotives. By this use of forced draft the boiler is able to maintain under ordinary conditions a steam pressure of 500 pounds. There is an automatic attachment which turns out the gasoline flame when the pressure exceeds this amount, and a second one which governs the pump and supplies the gasoline pressure. Besides this pump for gasoline there is one for oil, and two for water. One of the two latter pumps runs constantly, while the other is used on the hills to furnish the extra quantity of water consumed.

The men were greatly interested in the grinding machine which gave the inside of the steam cylinders a perfect finish. They were shown how the engine is mounted on the car so that the drive may be as efficient as

(Continued on Page 3, Col. 2.)

CALENDAR.

In Charge of S. H. Taylor, 1914.

Saturday, February 10.

2.30—1915 vs. Lowell High, Track Meet at Lowell.

2.00—Musical Clubs' Picture—Notman's. Fall dress.

5.10—1915 Track Men—North Station.

8.00—Basketball with Dartmouth at Hanover.

8.00—B. A. A. Meet—Mechanics' Bldg.

Hockey Team vs. Amherst—Amherst.

1914 Basketball vs. Abington Y. M. C. A.—Abington.

Monday, February 12.

2.00—E. E. Society Trip.

4.15—Glee Clubs—Union.

1.00—1915 Class Meeting—Huntington Hall.

Tuesday, February 13.

4.15—Mandolin Club—Union.

5.00—Basketball Practice—Gym.

THE TECH

Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

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Night Phone—Back Bay 5527.

Subscriptions, \$2.00 per year in advance.

Single copies, 1 cent.

Subscriptions within the Boston Post District and outside of the United States must be accompanied by postage at the rate of one cent a copy.

Printed by Rulter, 147 Columbus Ave.

SATURDAY, FEB. 10, 1912

THE NEW SOCIETY.

The formation of an honorary journalistic society at the Institute, which was started last year, although first publicly announced yesterday, marks a new stage in newspaper work at the Institute. Pi Delta Epsilon, while in name a fraternity, is not such in the strict sense of the word, its main purpose being to improve THE TECH and other newspaper work in which its members are interested.

Another of the results of this society's announcement is to create a more competitive feeling among men "heeling" (as the technical term has it) for the paper. Membership in such a society should mean much to men who have been able to earn it and have proved themselves worthy. It is no small honor to achieve a position on THE TECH, whatever the scoffers may say, and those chosen from among such men may feel themselves of the elect. The society is to college journalism what Phi Beta Kappa is to the average student in a college of arts.

VARSITY PLAYS GREEN.

The Team Will Have Hard Fight in Game Tonight at Hanover.

The Varsity basketball team will go against the strong Dartmouth five tonight at Hanover. The Green players have a very fast aggregation, having defeated a large number of the strong Eastern college teams. The Tech team will have to play some excellent basketball in order to be able to have any show against them in this game.

The lineup for the game will be as follows: Schar and Schatz, forwards; Mcerse, center; Freedman and McCarthy, backs.

PLANT TEST AT LOWELL.

During the vacation week two men of Course VI, C. L. Dows and M. J. Kimball, have carried out a plant test on the 150 H.P. Corliss engine of the Lowell Weaving Company. The engine at this mill is running at present under from 200-300 per cent. overload, and it is for the most economical solution of this difficulty that these two thesis men are working. Some of the remedies that have been studied are: the use of electric drive actuated by power from outside; the substitution of a larger unit, and the addition of another unit of the type used at present.

HONORARY SOCIETY FOR JOURNALISTS

Chapter of Pi Delta Epsilon
Established at the
Institute.

To encourage an interest in journalism at Technology and to elevate the character of the same is the purpose of a new society at the Institute, the establishment and purposes of which were outlined by its president, H. I. Pearl, 1912, at a general meeting of the news men and candidates for the staff of THE TECH held yesterday afternoon in the lower TECH office.

The new Technology society is a branch of Pi Delta Epsilon, the national intercollegiate honorary journalistic society, founded two years ago at Syracuse University. At the Institute only such Juniors and Seniors are eligible as have completed at least a year's work on THE TECH, and election to the society is based on the record made by each eligible man in his journalistic work. A year's work as correspondent for an outside paper is counted as half-year on THE TECH.

The journalistic society is one of but few at the Institute to which election is honorary, and it is expected to prove an important factor in undergraduate life. Nationally, Pi Delta Epsilon stands for the same ideals in the journalistic field that the collegiate fraternity of Phi Beta Kappa does in scholastic lines.

The second-term candidates in THE TECH'S news competition were told of the opportunities which were open to them if their work on THE TECH made them worthy of admittance to the new society.

B. A. A. TRACK MEET.

(Continued from Page 1, Col. 1.)

vious performances, but no one can tell how Berna will fit with either of these men. He is one of the best middle distance men that Moakley has ever had in the field, and that is certainly saying something when you consider the number of first-class men that the Cornell trainer has put forth.

The high jump will be another real classical event. This will be a fine chance to get a line on the Olympic material, for practically every Eastern high jumper of any form whatever will be on hand. Tech here has a man that will be among the point winners in all probability. Captain "Dal" is a tip-topper when it comes to clearing the bar, and if in his true form will take home a medal, as he has in the two previous meets that he took part in. Burdick, of Penn, whom Dalrymple tied for first place in the Intercollegiate meet in the Stadium last spring, as well as Lawrence, another sharer of the points in this event, and the club men from the B. A. A. and the New York clubs will show some real classy flying.

In the sprints all the fast men will be seen. In previous years this event has been open and a large number of men have entered, making a large number of heats which were more or less tiresome to watch; but this year each club is limited to two entries, and this leaves only the best men. For a great many years this race was almost a gift to Francis O'Hara, the old Exeter and English High man, but with the elimination of handicaps it is very doubtful who will be the honor man this year. Wilkins, the Sophomore crack, will show up well if we can judge from his past performances. At the C. A. A. meet held in the Irvington street Armory a couple of weeks ago he took second place, and was the winner of one of the fastest heats. If he gets off with the pistol there is no telling but what he may add another to the long list of Tech victories.

The Gymn has been some busy place during the afternoons of these last few weeks.

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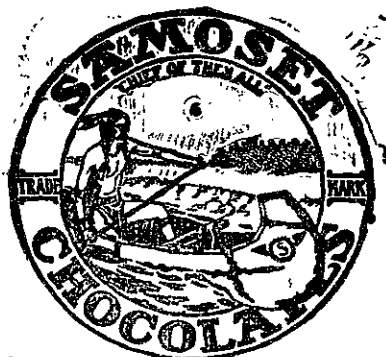
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MAJOR COLE PROPOSES TO IMPROVE DRILL

Traditional Battalion to Be Replaced by Regiment in Future.

Major Cole has in view a new plan in regard to the Freshman drill in the future. He proposes to have a Regiment instead of the traditional Battalion, as has always been customary in the past. The regiment will be composed of only two battalions, with three companies each, on account of the small number of men who take drill.

This proposed plan of the Major's is in accord with his views of increasing the efficiency of the various courses with which he comes in contact and of improving Tech spirit in general. He says that the course in Military Science given here is for the purpose of fitting the men to take up the duties of an officer in the regular army if the occasion should demand. As a result he has proposed the regimental idea in order to give more men actual practice in handling men instead of making the course chiefly theoretical for the majority of the men.

According to the new plan a large number of upperclassmen will hold positions as captains and lieutenants. There will also be a colonel, lieutenant-colonel, two majors and a complete regimental staff. The colonel and lieutenant-colonel will, according to the Major's idea, be chosen from the Senior class.

MECHANICALS' TRIP.

(Continued from Page 1, Col. 4.) possible. The head end of the cylinder is under the center of the body, and the rear end is next to the rear axle, to which it is connected by only two gears. This construction avoids the multiplicity of gears inherent in the gasoline automobile. No clutch or change-speed gears are used, for the throttle gives the driver absolute control of his power plant. The only other transmission mechanism is a Stephenson link, which changes the slide valves when the auto is to be run backward, and which can be set to admit steam during only one-quarter of the stroke. This latter position is used when the machine is travelling over good roads.

At the factory an engine was running with no load, and the man in charge repeatedly changed the Stephenson link from forward to reverse, and the engine followed the changes instantly, without a jar or tremor. One of the interesting machines was the Lamson-Jones turret-lathe, which turns out the differential spur-gear blanks at the rate of 63 a day, whereas the ordinary lathe has a capacity of only 7 in the same time. The men were shown a novel grinding machine which forms the grooves in which the balls of the ball-bearings run. Every bearing in the whole auto is equipped with either ball or roller bearings.

The Mechanicals were told that each boiler is tested at 750 pounds pressure before leaving the shops. This test is made by filling the boiler full of cold water and heating it so rapidly that the necessary pressure is obtained in seven minutes.

There was a fine course in highway engineering in the Upper Office of THE TECH the other night.

The delights of rapid flight down the steep slopes of Franklin Park are attracting many of the boys these evenings.

Too bad about that smash-up between Wilson, 1914, and Oscar Hedlund at the Gym the other afternoon. We hope to see both of them none the worse for it Saturday night.

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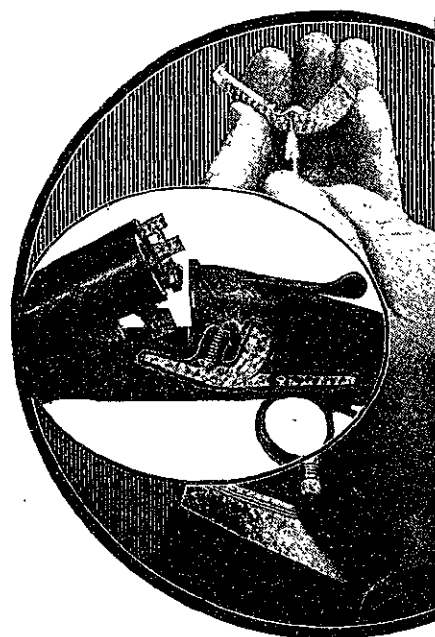
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