

THE TECH

VOL. XXXI. NO. 41

BOSTON, MASS., MONDAY, NOVEMBER 13, 1911

PRICE TWO CENTS

CARLISLE WINS FROM CRIMSON EASILY

Second Football Victory For the Braves One of Skill Against White Man's Brawn.

By overcoming twenty-three of the best of Harvard's football men at the Stadium Saturday afternoon, the little band of Indians from Pennsylvania won a clean, decisive victory, with a score of 18 to 15. Showing a superiority over the Crimson in every department of the game, and above all, displaying a spirit of sportsmanship and decency that was sadly lacking in their opponents, the Carlisle team were backed throughout the contest, not only by the feminine supporters, but also by almost three-quarters of the people in the Stadium.

At the start of the game Coach Houghton sent in a team of subs, which was found as wholly incompetent as the best team that he later sent in, in his last final effort to save the game. The tackling that his men showed was very weak and the charge and fight of the line men that was noticeable in the Brown game was lacking all through the game. His punters were outpunted, and his ends outplayed in getting down the field under the punts. The few forward passes which were used were only on Harvard's part, so there was no comparison, but one of these, however, yielded much gain, the Indians solving the only other successful one and throwing the ends with no gain.

When the whistle of the referee had blown the Harvard men seemed to come to life, and they fought to shove the ball ahead or to jump on an opponent, in strange contrast to the Indians, who never even attempted work of this kind. From this sort of dirty work the Harvard men went through all the grades of holding, hurdling, tripping, playing off-side, to the extreme of slugging in such an inexcusable manner that one of their men was put out of the game. With never a protest against the decisions that never broke their way, and never a trace of anything underhanded, the Redmen won the well-deserved admiration of every spectator.

The kicking and open play of the Indians was marvelous in the extreme, and the work of their halfback, Thorpe, was of a calibre such that it will seldom be duplicated or approached. His consistent punting, and his wonderful goals from the field from the thirty, forty-five and fifty-yard lines, stamped him the star of first water. Coupled with this, his clever and speedy work in carrying the ball and almost perfect defense brought again and again the cheers of the Indian girls for their hero.

It was far from a one-man team that defeated Harvard, however, for the offense was perfect and seldom could the Harvard men get through the solid interference or fathom the dazzling display of double and delayed passes that followed direct pass from the centre to the men carrying the ball.

Harvard has a chance to do some hard, bitter preparation during the next two weeks if there is to be a game worthy of the name on the twenty-fifth. She is lacking absolutely in a kicker of merit, and her defense Saturday was of the weakest. Twice now in succession has her particular offensive star, Wendell, being piled up without gain by Princeton, and now by Carlisle. Loose play in

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BLACKBOARD DRILL TO START HOCKEY WORK

The Squad to Take Ice For First Time On Tuesday—First Game Saturday.

Regular practice for the hockey team will begin this week at the Arena with a most promising outlook. There are a large number of hockey men in the Institute, both old Varsity men and new material, that can be molded into a championship team.

The men are to report to Captain Sloane in the Union, where there will be a short talk with diagrams of the new plays, then the men will adjourn to the Arena at 5 o'clock for their first appearance of the year on the ice.

Everybody must come with their togs and skates ready to go onto the ice as the first game will come on Saturday with the team formerly known as the Boston Hockey Club, which won the championship last year and is now playing under the colors of the B. A. A. This will be more or less of a practice game for both sevens, but the men must get into condition or it will be a runaway. The B. A. A. team should be fully as fast, if not faster than they were last year, and they will provide a most excellent chance for a real workout for the State hockey men.

Among the candidates for the team we find Ranney, 1913; Storke, 1914; Hurlbutt, 1914; Yearance, 1912; Eichorn, 1913, all of last year's squad, and in addition there are Hall, 1915; Fletcher, 1915; Lange, 1912; Whittlessy, 1912; Lane, 1913; Rogers, 1915; Hayward, 1914; Barker, 1913; Crowell, 1914; K. Stucklen, 1913, the brother of "Heine" Stucklen of last year's team from Dartmouth, and many other good men.

HARE AND HOUND RUN AT NEEDHAM SATURDAY

Pace Is Slow and Distance Short—Trail Laid Mostly Over Roads.

Instead of the whole track team, as expected, only 16 men took in the hare and hound run at Needham Saturday. As most of the fellows were new to the game, the pace was made slow and the distance short. The hares laid a clear trail which led mostly over roads, with a short stretch over the golf links and through the woods. Although short, the course was very hilly and the new men found it rather hard.

The start and finish was made from the Y. M. C. A., where the men had the use of the showers and the swimming pool. The cross-country squad, instead of running over the same course, ran at Wakefield. F. C. Achard, 1913, and E. M. Loveland ran as hares, while the hounds were as follows: E. D. Pratt, 1913; F. C. Atwood, 1914; R. C. Brett, 1914; W. B. Miller, 1912; E. L. Macdonald, 1913; J. J. Strachan, 1913; M. W. Leonard, 1913; M. B. Lewis, Jr., 1914; A. B. Curtis, 1915; D. B. Baker, 1915; S. W. Gurney, 1915; L. A. Wilson, 1914; A. Crankshaw, 1914; R. G. Best, 1915.

Lots of room for new men on the Gym team.

Yale beat Princeton, Vermont beat Tufts, and Carlisle won from Penna at cross-country last Saturday.

FRESHMEN REPORT FOR WRESTLING TEAM

Promise of Success in Season As Outlined With Many New Men.

During the week ending on Saturday, the 11th, fourteen Freshmen have gone out for the wrestling team. These men report for an hour's practice on three different afternoons each week at the Gym. The following times has been arranged so that the men can choose that most suited to their programs: Monday, 5-6; Tuesday, 4-6; Wednesday, 4-6; Thursday, 4-6; Friday, 5-5, and Saturday, 4-5. All these men must advise Mr. Kaualy of their intentions of substituting wrestling for the regular floor work of the Gym classes.

Some promising material has been seen among the new men from which good representatives in the different lines of work could be seen later on in the year, after they have had a chance to get a little more training to take off some of the rough edges.

On Wednesday, November 15th, a meeting will be held in the Gym at 4.15 P. M. sharp, at which time all the men in the Institute who are at all interested in wrestling should be present, for the purpose of the meeting is to elect a captain and manager. The captain, in conjunction with the coach, will pick out the team, consisting of three men in each class, and supervise the practice. The manager will attend to all exhibitions, competitions, matches and financial affairs of the team.

It is hoped that the work this winter will make possible matches with the Y. M. C. A. team and also with Amherst College. Some time in the middle of the season a competition will be held to decide the local light, welter, middle and heavy weight championships. There will be five bronze medals awarded, one in each class and one for the best man, regardless of weight.

It is also hoped that many more men will report for the team during the next week from all the classes. Men should see either A. H. Means or R. Smythe-Martin.

The following men have reported up to date: E. R. Andrews, 130 lbs.; E. Steere, 155 lbs.; Casselman, 150 lbs.; P. A. Heroult, 168 lbs.; A. H. Means, 125 lbs.; R. Smythe-Martin, 138 lbs.; Blodgett, 137 lbs.; R. T. Todd, 124 lbs.; C. S. Norton, 165 lbs.; MacNeill, 170 lbs.; H. Wells, 155 lbs.; C. Tomkins, 148 lbs.; Brigham, 135 lbs.; F. F. Buettner, 155 lbs.; Scannage, 140 lbs.; Piza, 150 lbs.; H. K. Pattern, 152 lbs.

CORNELL HAS POLE IN CROSS-COUNTRY RACE

Harvard About Best Choice For Runner-Up in Big Race On Twenty-fifth.

Saturday did little to clear up the question of "Who's Who" among the cross-country men, except to show that Cornell is about as far ahead of the game as ever before. There seems to be but little change in the race for the coveted second position, and it still looks like anybody's race.

Harvard trimmed Yale over the New Haven course by a decisive score, but showed little speed and no change from the order in which the men have

Continued on page 3

ABSORBING SUBJECT COMPACTLY WRITTEN

Recent Publication On Subject of Applied Electro-Chemistry.

A book designed to fit the needs of students in Applied Electro-Chemistry has recently been published by Professor M. deKay Thompson. During the second term a set of lectures on Applied Electro-Chemistry is given by Professor Thompson. As no work on the subject in English covering the entire field has been published previously, students had to take notes on lectures and refer to books which have been used in the compilation of Professor Thompson's work. This caused a lot of bother and was not satisfactory because the course is one which needs numerous illustrations, which are impossible to obtain from lectures. Another source of bother presented itself when looking up a subject. A large amount of reading was necessary to gain a small amount of information. By combining the essentials necessary to the course into a single volume containing an account of the most important applications of electro-chemistry, the teaching and understanding of the subject will be much more satisfactory.

In the new book a knowledge of theoretical chemistry is assumed and the subject discussed separately from theoretical and technical points of view. An example of the two methods of procedure is given in the cases of non-electrolytic and electrolytic analysis. By the first method the concentration of silver chloride in its saturated solution may be found by a formula involving the electromotive force of the cell used and the concentration of silver ions in the nitrate.

On the other hand, the substance to be determined may be deposited by electrolysis on one of the electrodes and then accurately weighed.

An interesting account is given of the different forms of electro-plating, nickel, copper, zinc, brass, silver and gold plating being described and fully illustrated. The electrolytic refining of metals, as well as the reduction and oxidation of solutions is completely described.

A short but exceedingly interesting chapter is devoted to the electrolysis of water. On account of the uses of hydrogen and oxygen in welding, filling balloons, chemical, medicinal and other purposes, it is necessary to manufacture these elements on a large scale. The chief object of an inventor of an apparatus is to devise a means by which the oxygen and the hydrogen may be kept separate from each other. Numerous means have been used, of which the more important are described in this work.

Cells and storage batteries are discussed, the primary cells, lead storage battery and the Edison battery. The

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CALENDAR.

Monday, November 13, 1911.

4.15—Gym Team Candidates at the Gym.

4.30—Basketball Candidates at the Gym.

Tuesday, November 14, 1911.

4.15—C. E. Society in Lowell 6.

7.30—E. E. Society in the Union.

Wednesday, November 15, 1911.

4.15—Gym Team Candidates at the Gym.

4.30—Basketball Candidates at the Gym.

THE TECH

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Printed by Rutter, 147 Columbus Ave.
MONDAY, NOV. 13, 1911

The Basketball Team which will represent the Institute this year is not starting the season under the most promising of auspices. As is probably well understood by all the students by this time, they have no financial backing whatever and are dependent upon their guarantees on games away from home and on their gate receipts on games at home. If the students do not take enough interest to patronize the home games and make it possible for the management to pay the guarantees to the visiting teams, it will be necessary to abolish the holding of games at home.

The material that has reported for the team thus far in answer to Capt. Cchar's recent call for candidates looks very promising for a better team than has represented the Institute for years. All that is necessary now is for the team to make good and show the Advisory Council that they should be sorry that they found it necessary to withdraw their support of basketball as a recognized Institute athletic sport. But in order to have a chance to make good they must have both the moral and financial backing of the student body.

Also, if you have played any basketball, go around to the Gym and let Captain Schar look you over as possible material for the team. If we are going to have a recognized team next year this year's team must make good with a vengeance.

Coach Kanaly's new innovation in regard to Hare and Hounds' runs seems to be the logical way of keeping the men interested in cross-country running and developing a team for future years.

At Cornell, where Jones and Berna, two of the best cross-country runners ever known were turned out last year, Coach Moakley has as cross-country candidates over two hundred men reporting to him. These men are excused from the required Gym work, and in this way they get a chance to try for a Varsity team at the same time that they are passing up a subject. The results of the system are shown yearly at the finish of the Intercollegiate Cross-Country run when Cornell is generally so far in the lead that the rest are "also rans." Kanaly has started on the right track and within a few years we may hope to hear that Tech is going to take Cornell off its high pedestal as the "unbeatable."

COMMUNICATION.

To the Editor of THE TECH:

I am one of 480 Tech men who eat their lunch at the Union every day. Besides this number I should estimate there are two hundred fellows who come into the Union each day. The wash room at the Union is for the purpose that its name implies. There are six roller towels posted on the wall almost every day; 6 into 480 goes 80 times. This means that if only the men who eat here wash their hands once a day that they each get 1-80 of a roller towel. The roller towel is 8 feet long and 11-2 feet wide. This gives each man .15 of a square foot per day. A man's hands have a surface area of .60 of a square foot. Where is he going to wipe his face and arms if he happens to get them a bit wet? There is room for more towel racks and the towels now in use could be changed once or twice a day. A hotel would consider it poor business not to supply enough towels. Has the Union a monopoly so that it can afford to let this condition continue to exist? A. T. G., 1913.

APPLIED CHEMISTRY

Continued from page 1

latter is a battery in which nickel and iron electrodes are used instead of lead, giving a greater amount of power for a longer time.

Different means of producing extremely high temperatures are taken up, the principal ones being by the use of electric furnaces, resistance and arc furnaces, by which calcium-carbide, carborundum, silicon, graphite, carbon-bisulphide, phosphorous, aluminum, sodium, potassium, calcium and other products are obtained.

Different methods of reducing iron are described, such as by blast furnaces and different electric furnaces.

A discussion of the production of oxone by means of the electric spark forms the last chapter of a book which will prove undoubtedly of great benefit to students of the subject.

CARLISLE FOOTBALL

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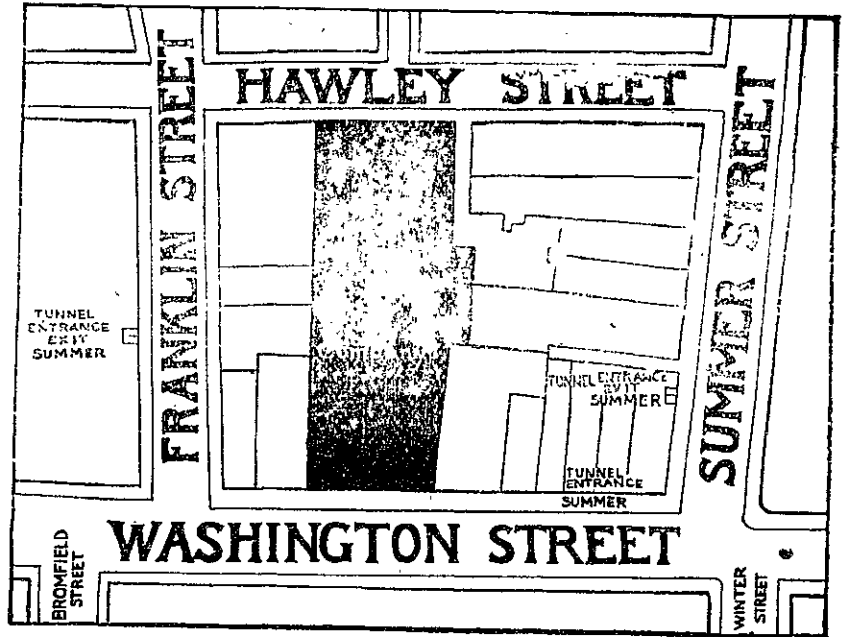
the line left hole upon hole for the Indians to drive through for long gains. Failure to follow the signals left the backs piling one on top of the other at times, and the bonehead work went even to where the quarterback drove full speed into a man who had signaled for a fair catch with such force that both went down for the time. Thoroughly rattled, they fought to stave off the defeat that they were sure was coming and resorted to every means to win. Carlisle deserved victory and took it. Harvard merited only defeat and they got it in a big, bitter pill, the second one in eight days.

TUNGSTEN A REMARKABLE MINERAL.

The mineral tungsten (the name meaning a heavy stone), has been known for many years, but only comparatively recently has it become of economic importance. The most important use, according to Frank L. Hess, of the United States Geological Survey, and one which makes tungsten mining on an extensive scale possible, is as an alloy for steel. Lathes using tools made from tungsten steel may be speeded up until the chips leaving the tool are so hot that they turn blue, an operation which would ruin the temperature of high carbon steel. It is stated that about five times as much can be done with lathes built for such speed and work as can be done by the same lathes with carbon-steel tools. From 16 to 20 per cent. of tungsten is ordinarily used in lathe tools. The melting point of tungsten is exceedingly high—5,576 degs. F.

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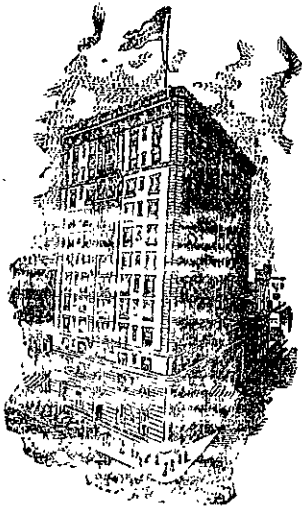
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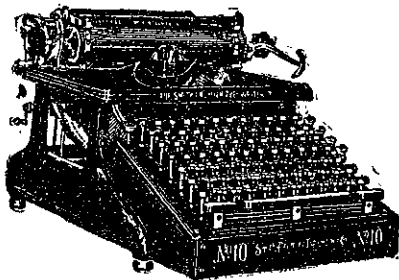
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NEW SITE DEBATE.

Cambridge Site Favored By Men Acting as the Judges.

A debate on the new site was held in Walker 23, at 11 P. M. Saturday. It was conducted under the direction of Mr. Sydney Gunn, the instructor of English, who takes charge of all men from E to K. The two men defending the choice of the Cambridge site were victorious by a unanimous verdict of the entire section.

The affirmative was represented by Isenberg and Harding; the negative was represented by Freeman and Keeney. Mr. Gunn stated after the debate that the arguments presented were very good, and he thought that this debate, and the results thereof, should be conclusive.

Isenberg, the first speaker, pointed out the fact that a new site was absolutely necessary in order that the Institute may be conducted upon a business basis. He further showed that the new site was the best under the circumstances, both because of its location and its size. The second affirmative, Mr. Harding, spoke of the benefit to the students and the Faculty. He stated that the placing of the Institute in Cambridge would greatly facilitate the absorbing of Harvard by Tech, if such a thing were ever to come about.

Mr. Freeman, the first speaker on the negative, argued that since the new site was to be in a manufacturing city, and since the new location was actually surrounded by factories, the efficiency of the school would be hampered by the necessary disturbances which would result.

Mr. Keeney, the second negative, argued that a site should have been chosen which was larger and which would show the buildings off much better. Despite the arguments of the first affirmative speaker, that the Institute was a part of and belonged in Boston, or near enough to be called

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CROSS COUNTRY

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been finishing. Yale apparently has less than had been expected, and has but Marsh and perhaps Booth, who have any class whatever. She seemed to have but few Freshmen who could be used later, for in the Freshman race Harvard cleaned up again.

Brown has a very small squad out and has most of her hopes fixed at present on Tabor, and it is very doubtful if he will be very close to the front at the finish of the big race. Cornell, the favorite for the victory, has a strong and well-balanced team as usual. She showed up Pennsylvania in fine shape Saturday, with Berna, the two-miler, and Jones, the mile champion, taking first and second respectively. The Penna men who were the only stars in her race a week ago with Carlisle were again the men who did the only reliable work for the team, as they finished third and fourth.

Columbia is out of the running entirely, judging from past performances, and has nobody who can keep on the heels of the leaders. She lost to Princeton by a big score in a very slow race. Paine, the Princeton captain, had no trouble in winning, and his team was bunched close behind him.

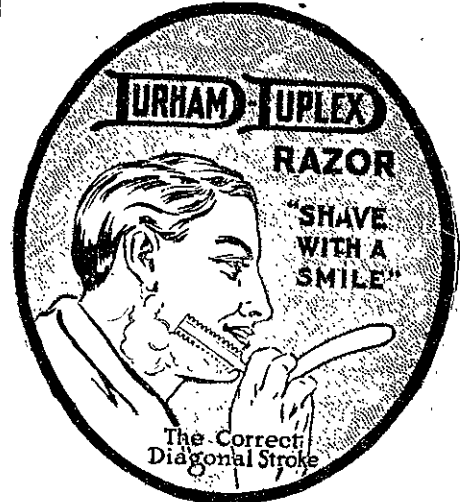
Dartmouth has had but little comparison and should be somewhat of a dark horse, with but little chance of getting better than fifth place in the intercollegiate. The race for second lies between Harvard, Syracuse, Yale, Tech and perhaps Dartmouth. The advantage at present seems to be all in Harvard's favor, for the Crimson under Captain Withington has a fast team. Her victories over Tech and Yale give her a slight call over them, and the others are of more or less unknown strength, due to lack of comparison.

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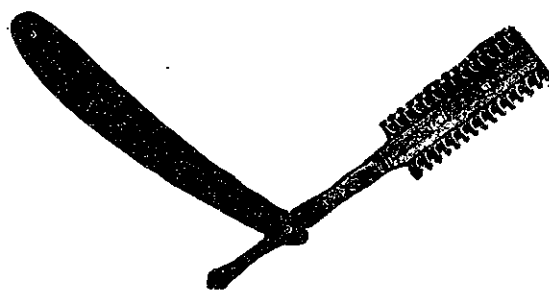
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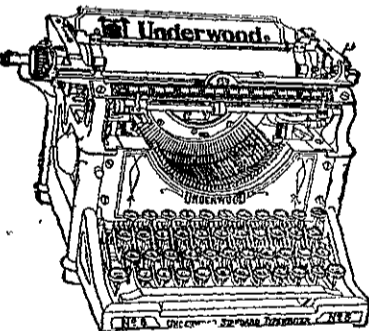
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Cross-country training for track men is a good stunt.

NEW SITE DEBATE

Continued from page 1
a part of Boston, Mr. Keeney stated that the Institute ought to build outside of the city proper.
In the rebuttal the affirmative decidedly had the better of their opponents. They strengthened their former points and successfully refuted the arguments of the negative side. The members of the section unanimously awarded the victory to the men representing the affirmative.

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Condensed Statement at Close of Business Sept. 1, 1911,
as reported to the Comptroller of the Currency.

RESOURCES

Loans and Discounts	\$ 51,556,613.22
Investments	11,629,453.33
Due from Banks	17,065,681.11
Exchanges from Clearing House	4,728,951.32
Cash	11,279,205.11
	<u>\$ 96,259,904.09</u>

LIABILITIES

Capital	\$ 3,500,000.00
Surplus and Undivided Profits	5,813,181.57
Reserved for Taxes	147,009.87
Circulation	834,097.50
Deposits	85,965,615.15
	<u>\$96,259,904.09</u>

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