

THE TECH

VOL. XXXI. NO. 51

BOSTON, MASS., FRIDAY, NOVEMBER 24, 1911

PRICE TWO CENTS

G. B. HILTON ELECTED FRESHMAN PRESIDENT

Many Athletic Men Chosen For Class Officers—Small Vote Polled.

The elections for the class officers following results: G. B. Hilton was elected President; H. E. Hadley, Vice-President; F. F. Fulton, Secretary; M. B. Dalton, Treasurer, and W. A. Swain, Clerk. The Executive Committee will be composed of A. Morrison and S. F. Woodbridge. H. R. Crowell and J. Duff, Jr., will represent 1915 on the Institute Committee, while F. P. Scully and T. P. Spear were chosen members of the Athletic Association.

Gabe Bouck Hilton comes from Oskosh, Wisconsin, and prepared at Exeter. At the first meeting of the class he was chosen temporary Chairman of it. He has been prominent in class and athletic activities at prep school. The Vice-President, Harold Elliot Hadley, was captain of the winning class football team. He was on the football team of the Rindge Manual Training School at Cambridge, and his home is also across the river.

The class re-elected Marshall Bertrand Dalton to have charge of their funds for the coming year; he comes from Portland, Maine. Francis Fisher Fulton, the Secretary, comes from Boston. Wilbur Alfred Swain, the man who was chosen for the position of Clerk, is from East Orange, N. J. He helped to pull his class to victory on Field Day.

Next to the President, membership on the Institute Committee is the most sought for position. John Duff, Jr., and Harold Ryder Crowell will be the 1915 representatives on this important body. Duff was substitute quarterback on the football team and lives in Charlestown. He is the son of John Duff, '81. Crowell is also a football man, having played right guard on the team. He played Rugby football in Los Angeles before coming here.

The members of the Executive Committee, Stephen T. Woodbridge and Archie Stone Morrison, both come from around here. Morrison was manager of the football team and Woodbridge was chairman of the Class Theatre Committee. The two men who were elected for the Athletic Association have both been prominent in class athletics. Francis Paul Scully was the star quarterback of the football team. He played on the Rindge Manual team, in Cambridge, where he (Continued on Page 2.)

RAPID TRANSPORTATION.

Greater Boston to Be Linked By New Five Cent Belt Line.

Last evening, in 6 Lowell, a very interesting lecture was delivered before a rather small but nevertheless enthusiastic audience, by Mr. Henry C. Long, under the auspices of the N. E. Section of the Electric Vehicle Association of America. Mr. Long, who is the author of the "Boston Harbor and Dock Bill," spoke for nearly two hours on the subject of "Electric Transportation in the Development of Greater Boston." The discourse was more doubly interesting by the addition of numerous stereopticon views, showing the route of a proposed electric belt line which is to run around through Greater Boston, connecting the opposite sides of the harbor for rapid transit purposes.

HIGHWAY COMMITTEE TO VISIT NEW SITE

Mr. Morss to Conduct Party On Inspection Trip On Esplanade.

At the meeting of the Highway Committee of the City of Cambridge, H. F. Beale and Everett Morss, 1885, presented the final arguments for the closing of Amherst street coincident with the probable coming of the Massachusetts Institute of Technology in the near future. The committee voted to inspect the property as the guests of Mr. Morss to-morrow afternoon at 2 p. m.

Mr. Beale suggested that Ames street be extended to the Parkway and that the latter be opened to heavy traffic. This scheme would give the manufacturing concerns an outlet to Massachusetts avenue and fulfill the same purpose as Amherst street does at present, with the single disadvantage that there would be a couple more curves to encounter on the way.

He urged speedy action in the matter, in order that Technology might be enabled to go ahead and gather the necessary money for the construction of their great plant. He pointed out that each member of the committee might look back, in future years, and see what part he had in the bringing of Tech to Cambridge and the accompanying development of his city.

Mr. Morss pointed out that in addition to the above that the Institute stood ready to give enough land to widen Vassar street to such an extent as the members desired. He suggested that Cambridge release their easement on Francis avenue, Princeton street, Radcliffe street and several others on which Tech plans to build. He explained the difficulties that had been encountered in the choosing of the new site and how Cambridge had not at first been considered at all favorably, but upon receipt of requests and upon careful investigation, the aforesaid place had been decided upon. He explained that it was very important that the matter be settled one way or the other at once in order that the campaign for funds for the construction of the "New Technology" be inaugurated as soon as possible.

In answer to Councilman Mahoney's query in regard to the possible exclusion (Continued on Page 3.)

HOCKEY TOMORROW.

Tech Team Will Play the Fast Intercolonial Seven.

The hockey team will play the second game of the season Saturday, when they meet the fast Intercolonial team. This team is made up mostly of members of the Victoria seven of last year. Because of the good showing made against the crack B. A. A. team last Saturday, the Tech combination is a strong favorite for this game.

Coach Clifford now has the men in charge and is developing a fast forward line and has a strong defense. The principal defect in the team now is the lack of a substitute goal. If Ranney should be put out, the team would be in a bad fix.

This is not a college game, but there will be lots of chance for cheering the team and thereby give them much encouragement. The management request that all the fellows will sit together, so that their cheers will sound like such and not like mere applause of the audience.

STOUGHTON TALKS ON IRON AND STEEL

Miners Get Some Good Pointers, Followed by Good Beer and Good Time.

Last evening, in 11 Eng. B, Professor Stoughton, who has been connected with the Department of Metallurgy at Yale, and who has written a treatise on iron and steel, gave a very interesting lecture on the Iron and Steel Industry. The talk was illustrated by a remarkable series of slides showing the complete transition from the ore to the finished product. Mr. Stoughton said in brief:

Iron ore is found in great quantities all over the world and in this country in particular large amounts are found. The ore is mined by two methods: First, by the caving-in process, and second, by the steam shovel process.

The caving-in method is used principally in Sweden, where the work is carried on in small degree. The latter method is the one used everywhere else and is very rapid. By this process millions of tons of ore are mined yearly.

The smelting is carried on in blast furnaces, usually having three stoves, although the latest models are equipped with five stoves. This larger number of fires gives a more uniform and high temperature, a better smelting, and a finer grade of finished product. The stoves are charged every twenty-four hours with about twenty thousand tons of ore, limestone and coke.

The smelting goes on day and night, the oxygen in the air blown in at the bottom of the furnace unites with the coke, and produces a high temperature. The carbon monoxide and the carbon dioxide rise and pass through the charge, the iron is separated from the oxide and is reduced to a metallic and spongy iron. The slag hole is opened every six hours and the slag is drained out and skimmed off. The iron is run into pigs or sand impressions. These pigs are broken and shipped. On account of the sand which clings to the iron and injures the furnace, this method is now not generally used. Permanent cast iron beds are used instead.

The carbon monoxide which is generated during the process and which passes out through the top of the furnace is partly for heating purposes. The greater part of this, however, is used, according to German practice, for the running of gas engines which drive the blowers for the converters. Part of it is converted into electricity and used for the super-refining of the iron by the Bessemer open hearth process. Two kinds of iron are produced in this manner, white pig iron, which is pure and silvery and in which the carbon is dissolved, and gray iron, which is dull in appearance, and separates out in flakes.

The great majority of the ore goes to the blast furnace, where the impurities are taken out. The iron at this stage contains three to four per cent of carbon, manganese silica, phosphorus and other impurities.

The ore is put into a furnace and after a half hour it is puddled, the liquid iron being mixed with the ore and is then taken out, welded, squeezed between rolls and hammered until most of the slag is driven out. The puddled bar is then cut up, piled into crucibles, and heated in a coal fire or gas furnace with a small amount of pig iron or chrome alloy. After an (Continued on Page 2.)

JUNIORS AMEND CONSTITUTION

A. A. Men to Be On Board of Directors—Class Picture Tuesday.

At their class meeting yesterday the Juniors passed the amendment to the constitution proposed by the Board of Directors, which added to the former statement that the two members of the Athletic Association elected by the class should also become members of the Board of Directors.

The meeting was held at the close of the Pol. Econ. lecture, but unfortunately most of the class was permitted to leave before the meeting was called to their attention. A motion to lay the amendment on the table until more members should be present was lost, and the amendment itself was then discussed. Some members were opposed to it on the ground that it would add too much to the duties of the A. A. men, and that it might lessen the harmony existing in the Board. Other members refuted these objections, and the amendment was carried by a comfortable majority.

Announcement was also made of the Junior Class picture for this year's Technique. The picture will be taken next Tuesday, after the Pol. Econ. lecture, on Rogers steps, and all men should make a special effort to be present.

YALE SQUAD AT WOODLAWN HOTEL

Twenty-nine Men Reach Boston in the Best of Physical Condition.

The Yale squad, consisting of twenty-nine men, arrived in Boston last night, and went immediately to Auburndale, where they will stay until the big game on Saturday. Every man is in excellent physical condition with the exception of Captain Howe, who is just getting over a slight injury received in practice.

The "Blue" team will complete its practise with a light signal drill on Saturday morning, and the men are confident of a victory over Harvard.

The Harvard eleven had its last hard practise yesterday against the scrubs. The "Crimson" team is in wonderful shape and the game which is to be put up against Yale will be the best that the team has ever played.

At present Yale seems to be the slight favorite. The New Haven coaches have been drilling their team in principles which appear to have more scoring possibilities than the Harvard tactics. Yale will play an open game and will rely on Captain Howe to do some drop kicking. Harvard is playing straight football and the athletic critics believe that the Blue can meet anything that Yale may offer in this line.

CALENDAR.

Friday, November 24.
5.00 P. M.—Basketball Practice—Gym.
8.00 P. M.—Glee Club Concert—Medfield.
Saturday, November 25.
2.14 P. M.—Hare and Hounds Leave North Station for Wakefield.
Monday, November 26.
4.30 P. M.—Institute Committee—Union.

THE TECH

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FRIDAY, NOV. 24, 1911

IN CHARGE OF SATURDAY ISSUE.

EDITOR—Chandler, L. W., 1912.
 Associates—Foote, F. C., 1915; Spencer, W. S., 1915; Zannetti, S., 1914; Haslam, G., 1915.

The Annual Intercollegiate Cross-Country Run will be held on the Brookline Country Club course Saturday morning, at 11 A. M. Tech has a fine chance to finish second, and a lot of well placed rooting and cheering at the right time would fit in very well. We think that the Faculty will be lenient toward those who may cut one or two classes in order to help the team place well toward the front. There will be no admission to the club, and some one will be on hand to lead the cheering. So everyone who can possibly afford to spare the time should take a trip out to the Country Club, and when you get there use your voices.

The Junior Class have amended their constitution to allow the members of the Athletic Association from their class to become members of the Executive Committee. This action is, of course, a minor one, but it seems to be a very important thing to change a Constitution with the consent of so few men as were present at the meeting yesterday. The men could easily have been held as the class was gathered in a body the hour before the Political Economy lecture, and certainly showed a small amount of spirit in not waiting for the meeting. They should have been forced to remain even if it might have been necessary to lock the doors. It is about time that the Class of 1913 woke up.

HILTON PRESIDENT.

(Continued from Page 1.)

lives. Theodore Franklin Spear was manager of the class relay team. He was manager of the track team at the Mechanic Arts High School, and was also an all-round athlete there.

The election for President was extremely close. Hilton received forty votes, while his nearest competitor, Lyons, got thirty-nine. The vote for Secretary was also close. Considering the size of the class, the poll of about 118 votes was very small. A few votes were sent in unsigned and also a few voters failed to pay their dues.

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"THE CITY WITHOUT A CHURCH," BY GIFFORD

Best Christian Association Talk Of the Year Given Before Large Audience.

Yesterday, in the Union, the T. C. A. presented one of the best speakers that has spoken before the men thus far this year. It was Dr. O. P. Gifford, of the Brookline Baptist Church. His subject was "The City Without a Church." He told of the vision of John, where he saw the New Jerusalem, which was fifteen hundred miles square and fifteen hundred miles high. In this enormous city he saw no church. This only furnishes an excellent excuse to the man who likes to stay in bed on Sunday morning, because he says to himself: there is no church in the ideal city, why should there be churches here. Dr. Gifford explained this point in the following manner: He said that no man could enter this city who loves or makes a lie. This city is guarded by twelve gates, through which no man can enter unless he conforms to the specifications. When this city is composed of these ideal men it is simple to see that no church is needed. It is absolutely necessary though that men attend some church before they reach these gates or they may not conform to these necessary specifications.

He mingled many witty remarks with his talk, one of them being a boy's definition of a lie. "A lie is an abomination in the sight of the Lord, but a very pleasant thing in time of need." He said that he knew a minister who said that he had no interest in the hell business because he was incombustible.

He also showed that art and beauty find their greatest expression in church and cathedral architecture, and has for many centuries.

STOUGHTON ON STEEL.

(Continued from Page 1.)

hour it begins to melt; at the end of three hours it is wholly in the molten condition, but is allowed to sit for another half hour in order to be insured against the presence of oxygen bubbles. The pots are then dragged out, the slag skimmed off, and then poured with the greatest of care in the molds. When cooled, the molds are taken apart, and it is again taken to the furnace, where it is heated white-hot, after which it is hammered and welded again until it is in condition for the market.

Until recently the Bessemer process was used almost exclusively, but on account of the large amount of phosphorus which this left in the iron the open-hearth method has not been generally adopted. In the Bessemer process the converter is lined with silicon, the charge is poured in while the converter lies on its side. The air is then blown through the liquid iron. The impurities are oxidized, the silicon, carbon and manganese passing into the slag. The carbon burns to form carbon monoxide, which unites with the oxygen of the air to form carbon dioxide and pours out in a steady stream at the top of the converter.

In the short space of twelve minutes most of the impurities are burned out, the control being regulated by the appearance of the flame. Carbon is added to the iron during the process to give strength; manganese to take out the oxygen. The metal is then cast into ingots and put into the furnace and reheated, after which it is ready for the market.

At the close of the lecture refreshments of beer and pretzels were served and a general social hour was enjoyed by all.

The hockey management should see to it that the fellows get seats in a bunch some where so that there can be more cheering.

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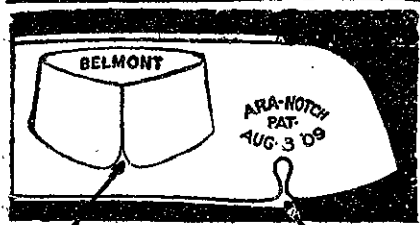
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**LAST HARE AND HOUND
 RUN NEXT SATURDAY**

**Two Squads Run Over the New
 Handicap Course At
 Wakefield.**

The last hare and hound run before the handicap meet will be held at Wakefield Saturday, over the new handicap course. The men will run in two squads, one composed of the men who wish to go the full eight miles, in order to learn the course before the race, and one made up of the track squad. As this will probably be the last chance for the latter to run in the country this fall, they are all expected to report. The train leaves the North Station at 2.14, and the fare is 25 cents.

The new course is exceptionally open and free from underbrush, but is rather hilly in some places. It is much better than the Roxbury course in all respects except that it can not finish at the field. The start and finish is made at the Y. M. C. A., where the men will have the use of the showers and swimming locker rooms.

The handicap race will be held on December 2d. All members of the Hare and Hound Club may compete, and cups are given for first and second places and for the fastest time. The cups are now on exhibition in the Technique case, in the Union.

HIGHWAYMEN'S TRIP.

(Continued from Page 1.)

sion of factories on account of the acquisition of Technology. Mr. Morse explained that there was no doubt but that the land to the west of the site would be filled with student boarding houses, and that expensive residences would probably be built on the land that had been unoccupied for the last twenty years, and further, that there was a restriction on the land in regard to the construction of factories.

The decision of the committee after their trip of inspection of the site today will probably be reported at the next meeting of the Board, Tuesday evening next. If the decision is favorable, construction on Technology's "White City" will probably be started in the early Spring.

**TICKET SPECULATION
 MAY BE STOPPED**

**Effective Preventative Measures
 Will Probably Prove
 Successful.**

It is to be hoped that ticket speculation before the big game will receive a good blow this year, owing to the stringent measures which both Yale and Harvard have instigated. The Yale Athletic Association set aside a large sum of money at the first of the season for the purchase of "spec" tickets, and appointed several good sized men to do the buying. These men are doing excellent work and have a unique method of reaching the speculators. When one attempts to sell a ticket to an association man the actual sale is made and immediately after the speculator is collared and fined or imprisoned, whichever the case may be.

Harvard, too, states that no tickets purchased in this way will be honored at the entrance to the field. All licenses under such tickets will be revoked and two dollars, the original price of the ticket, returned to the purchaser. It is so arranged, however, that tickets so purchased may be made valid by calling at 53 State street, Boston, and giving full information in regard to the purchase.

The lack of cheering at the Arena Saturday was due more to the fact that the fellows were scattered than to any lack of numbers.

Three cheers for Harvard and (hurrah) for Yale!

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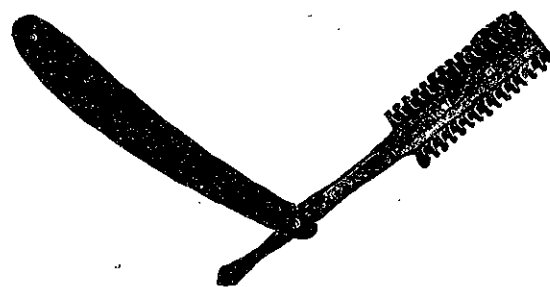
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FREE SUNDAY SERVICES.

Mr. Joseph Lindon Smith, of the Egyptian Department, will speak on Excavations in Egypt, in the Mastaba Gallery of the Art Museum, at 2.30 P. M.
Assistant Prof. Henry L. Seaver, of the Institute, will speak on Jade, in the Japanese wing of the Court Gallery, at 3.15 P. M.

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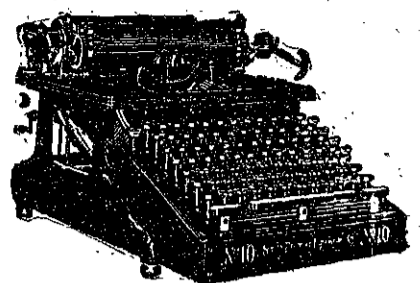
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