

THE TECH

VOL. XXX. NO. 50

BOSTON, MASS., MONDAY, DECEMBER 5, 1910

PRICE TWO CENTS

TECHNOLOGY WINS FIRST HOCKEY GAME

Crescents Are Defeated in a Well Fought Contest at Arena Saturday Evening.

SCORE: 7 TO 6.

Speed and Fancy Skating Are the Other Features of the Evening at Ice Carnival.

Last Saturday evening the Technology hockey team played its first game of the season with the Boston Crescents as their opponents. It was a closely contested match, resulting in a fine score of 7 to 6 in our favor. Not until the last minute of play could one foretell what the result would be, for the question of supremacy was in doubt from the start to the finish.

The Technology seven showed much better team work than did the Crescents, but the final result hinged on the playing of two of the forwards, Hurlburt and Clifford.

Goals followed each other in rapid succession during the first half. The first goal was shot by Clifford of the Crescents, and was closely followed by another by Fritz.

About this time Whittemore was taken out of the game two minutes because of a foul.

Just after the second goal had been scored by the Crescents, Hurlburt took the puck from play and shot a goal for Tech. This was followed by two more goals by Hurlburt and one by Gould. Fritz shortly shot another goal for the Crescents, and Sloan, by clever team work, was enabled to score two points for Tech.

The first half was a 20-minute period, and the score at the close was 6 to 4 in favor of Tech.

The Crescents started the second period with a somewhat changed lineup, and by clever rushing they managed to cage two goals, thus evening up the score.

With but a few minutes left to play, Hurlburt took the puck almost at the Tech goal and started down the rink. By clever rushing he succeeded in passing man after man and finally made a beautiful shot for a goal.

Hurlburt was the star man on our team. By his clever foot work and splendid shooting he more than anyone else helped us to win the match. He came to Tech from Williams, and is, without doubt, a valuable asset to our team.

Clifford was easily the cleverest man of the Crescents. He is a Harvard man and one of the best known hockey players in New England.

The support of the student body was very disappointing. It had been hoped that a large number of Tech men would attend the game and help our team to win by their cheering.

In a college where there are so few varsity sports is it not possible to get a fair sized crowd of men out to witness our games?

The summaries:
Technology. Crescents.
Scoville, Gould, f. f. Thurber, Whidden
Stucklen, Starke, f. f. Clifford
Hurlburt, f. r. Fritz, Tuck
Sloane, p. f. Janvrin
Raney, Eichorn, cp. cp. Whittemore
Vose, p. p. Skilton
Bakewell, g. g. Smith
Score—Technology 7, Crescents 6.
Goals made by—Hurlburt 4, Sloane 2,
Gould, Fritz 2, Clifford 3, Skilton.
Referee—Lennerton. Umpire—Pop
Foster. Timer—Van Schuckmann.
Time—20m. halves.

MARY BAKER G. EDDY.

Mary Baker G. Eddy, the founder of Christian Science and the author of "Science and Health with Key to the Scriptures," passed away last Saturday evening, at 11.15 P. M., at her residence in Chestnut Hill.

DIFFICULT TASK TO RANK COLLEGE ELEVENS

Many Surprises in Annual Game Are Noted in Season's Record.

PENN FOR PREMIER HONORS.

Harvard, Annapolis, Brown, Yale Are Next Best Teams in The Tech's Ranking.

By "1911."

"The Tech's" ranking of leading Eastern elevens:

- PENNSYLVANIA,
- HARVARD,
- ANNAPOLIS,
- BROWN,
- YALE,
- PRINCETON,
- WEST POINT,
- CORNELL,
- DARTMOUTH,
- AMHERST,
- WILLIAMS.

Just as the selection of an All-America football team this year is a difficult task, so is the ranking of the leading varsity football teams. Any such ranking is bound to evoke more or less comment and criticism because of the wide variety of opinion upon the subject.

Had Harvard defeated Yale this year at New Haven there would have been but little chance for criticism against the choice of the Crimson as the country's premier aggregation. But the Yale game was a tie and Pennsylvania at once presents a just claim by her record of the season for the title of the team.

In their first game of the season Pennsylvania, playing for the first time under the new rules, was defeated by a comparatively small college, Ursinus, by a score of 8 to 4. That game, however, sufficed for the Pennsylvanians to "find themselves" and thereafter they were victorious in all of their struggles with the exception of a scoreless tie with the wonderful Michigan team from the West. Among the teams defeated by Penn were Brown, Cornell, Carlisle, Penn State and Lafayette. Penn scored 151 points for the season, against 13 for their opponents.

Harvard's season was remarkable up to the time of the Yale game, but the showing of the Crimson in that struggle detracts considerably from the entire season's work. Entering the Yale game in the pink of condition and possessing the confidence born of determination, the lads from across the river failed miserably in what had been expected to be the glorious finale of a successful season. Despite their showing in the Yale game, the Harvard team is still a factor in the race for premier honors, but Pennsylvania is our choice for the honor position.

Annapolis also had a splendid season, with all victories to her credit with the exception of a scoreless tie with Rutgers in their second game of the season. Comparative figures, however, place both Penn and Yale ahead of the boys from the Navy.

But Annapolis is hard pressed for her position by Brown University, and doubtless many critics will place the Brunonians ahead of the marines. Despite their wonderful victory over Yale, the Brown team does not seem to be quite as strong as the Navy, although there is but slight difference between them. Brown was this year defeated by both Penn and Harvard, and held to a scoreless tie by Colgate.

Yale's remarkable "come back" in the Princeton and Harvard games saved the team from having encountered the worst season in its long career. As it is, fifth place seems to be as high up as the team should land this year. And right behind Yale

(Continued on Page 2.)

SENIOR CLASS DINNER AT UNION TOMORROW

Last Dinner of Class Till Grand Finale in June to Be Merry.

GOOD SPEAKERS SECURED.

Songs Being Written for the Occasion—Stunts Will Be Given.

According to the plans announced, the Senior class dinner this year will be one of the best in the history of the Institute. The committee in charge has been working hard and enthusiastically, and promises a merry time to every one who attends.

As speakers Dean Burton, Bursar Rand and Professor Jaggar have been secured. It is hoped that Dr. Noyes and Mr. Homer Albers will also be on hand. The Dean and the Bursar are old-time rivals on the after-dinner speaking question, and all who heard Professor Jaggar at the recent dinner of the combined professional societies know that he is a most interesting speaker. The committee felt that this class dinner would not be a complete success unless Dr. Noyes were counted in, for it was under his regime as acting president of the Institute that the class started its college career. No one has been a stronger friend to 1911 than he. Mr. Homer Albers has written that he will come if he possibly can arrange to do so, and if he is present many good laughs will be forthcoming. On account of previous engagements Dr. MacLaurin and Professor Sedgwick will be unable to attend the dinner, but with the speakers enumerated above the success of the affair is assured.

Good beer will be served to those who like this beverage, and ginger ale to all others. There will be much singing and laughter and a number of little stunts will serve to enliven the occasion. Mr. Edwin C. Vose has written some very acceptable parodies on popular songs which will be rendered by the multitude, with O. B. Denison at the piano.

As a further drawing card the results of the Senior Portfolio election will be announced.

Tickets for the dinner are selling fast, and this is the last official 1911 class dinner until the grand finale in June. A large attendance is assured.

Small handbills have been distributed bearing the following legend:

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GRAVE AND REVEREND SENIORS.

The time has come for an infinitesimal of relaxation. Take a small differential of time with respect to the infinite space covered by the first term—do off the goggles of your thinking caps—trip the high gear of the train of your thoughts, and come to the SENIOR DINNER at the UNION on TUESDAY, DECEMBER SIXTH. Now is the time to stop the grind and be happy for a few brief hours with a dinner, a speech, and a stein of good beer. If you are going to be grouchy—stay at home—everybody is out for a good time, and we are going to have it!

The rope drops at SIX-THIRTY! Get your ticket NOW from Stevens, Merrill, Hobson, or H. C. Davis.

TUESDAY - - DECEMBER SIXTH

- - - THE UNION - - -

SIX-THIRTY - - - TICKETS 50c.

AERO CLUB VISITS AEROPLANE FACTORY

Excursion to Burgess Company's Plant at Marblehead.

LARGE NUMBER WENT.

Best Features of All Makes Explained By Junior Partner of Company.

Last Saturday afternoon the Aero Club undertook its first excursion to the works of the Burgess company at Marblehead. The members of the club met at the North Station at 2.15 P. M., and arrived at Marblehead at about 3 o'clock. Mr. Merrill conducted the party towards the yard, and here they were received by Mr. Curtiss, the partner of Mr. Burgess.

The Aero men had a good chance to see how struts, beams and ribs were produced "en gross." Mr. Curtiss then showed the running gear of two Model D machines, both provided with skids and built after the designs of Grahame-White. Mr. Curtiss stated that the company intended building six machines of this type, all of which were to be used in Grahame-White's Flying school.

The machines are somewhat smaller than the original Farman, of which they are copies, and are built for two passengers. Compared with the Burgess Model C, they represent a considerable improvement, and will probably outdo their prototypes in every respect. The workmanship on all the machines was of a very high grade and representative of the best aeroplane practice of the present day.

The club was then showed into the propeller room, which contained Integrale, Phitzner and Burgess propellers.

Mr. Curtiss particularly pointed out a 10-foot Burgess propeller which had given a thrust of 486 pounds with a 40 horse-power motor. He stated that both White and Curtiss had immediately ordered propellers of this type, and that all their new machines were to be fitted with them. Lastly, the club inspected a 25 horse-power Curtiss and a 30 horse-power Clement Bayard double opposed motor. Both were remarkably light and showed what could be done by economizing in weight. Mr. Merrill then made arrangements for visiting trial flights at Ipswich, and with this the excursion concluded.

On the way home the prospects of gliding were discussed. The club now has glider No. 1 practically completed, and trials will probably be commenced in the near future. Flights in the old glider are made about three times a week and most of the members have been familiar with the use of the machine.

The next meeting of the club will be held Friday, December 9, at 5 o'clock.

CALENDAR.

Monday.

- 4.00—Mandolin Club Practice—Union.
- 4.00—1913 Cross-Country—Gym.
- 4.00—1914 Cross-Country—Gym.
- 4.10—All Candidates for Swimming Team meet in Union.
- 5.00—Basketball Practice—Gym.
- 5.30—Hockey Practice—Arena.
- 1.00—Tech Board Meeting, with lunch.

Tuesday.

- 1.00—Tech Board Meeting with lunch.
- 4.00—Glee Club Practice—Union.
- 4.00—1913 Cross-Country—Gym.
- 4.00—1914 Cross-Country—Gym.
- 4.15—Technique Board Meeting.
- 4.15—Gym Team Practice—Gym.
- 4.15—1914 Indoor T. T. Practice—Gym.
- 4.15—Varsity T. T. Practice—Gym.
- 6.00—1911 Class Dinner—Union.

THE TECH

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MONDAY, DECEMBER 5, 1910.

The Tech takes great pleasure in announcing that P. L. R. Flansburg, 1912, has resumed work on the paper and has been elected Associate Editor in the athletic department.

On Saturday night there were still a hundred and twenty uncalled for ballots at the Cage. As all ballots are to be in at 4 o'clock this afternoon, some 1911 men should get busy. The Portfolio election is an important one.

The Union Dining Room is receiving praise from all sources now, and we wish to add our congratulations and to voice the appreciation of the student body. Never in the history of the Union has the quality of the fare and of the service been more praiseworthy.

As an evidence of this general feeling of satisfaction, the recent competition of criticisms of the Union Dining Room brought forth not a single suggestion for improvement. This lack of adverse criticism may rightly be taken as an expression of active approval on the part of the student body.

(Continued from Page 1.)

comes Princeton. Had the Tigers beaten Yale, as they had every hope of doing, they would have been in line for high honors for the season.

For the remaining positions there is not much doubt of the order. West Point had a most successful season, although defeated by their bitter rivals from Annarolis in the annual struggle on Franklin Field. Right behind the Army comes Cornell with but two losses against her, by Harvard and Penn. The Ithacans played a flashy game at times but were not consistently strong throughout the long season.

Dartmouth showed considerable strength in her early games, but was not equal to the occasion when it came to the crisis. They lost to Princeton, were scored upon by Amherst, and defeated by Harvard in the came to the crisis. They lost to

other games were won by the shut-out route.

In the last two places come Amherst and Williams. Amherst had the better season, defeating the Williams team in their annual game. Amherst won four games, tied one and lost three, while Williams had a very poor season, winning but one game, tying three and losing three.

INSTITUTE NEWS.

Society of Arts Hold First Meeting December 13, in Huntington Hall.

As the first speaker of the year, the Committee of the Society of Arts has announced Mr. Louis K. Rourke, 1895, who will talk on the subject of "The Scientific Administration of Public Works." This meeting will be held on the evening of December 13. On the 20th Professors Jaggard and Spoford will address the society on "Earthquakes and Construction in Earthquake Visited Countries."

The new committee consists of Messrs. Elihu Thompson, Theodore N. Vail, James P. Munroe, Carroll W. Doten, Frederick H. Fay and I. W. Litchfield. Dr. Richard C. Maclaurin is a member ex-officio.

On Saturday night there was a conference of the instructing staff of the course in Civil Engineering at the Technology Club. Dinner was served, and later there was a discussion of problems connected with the teaching work of the department.

The sixty-sixth annual meeting of the Massachusetts Teachers' Association was held in Huntington Hall Saturday. There was quite a battle of words between Rev. Marion LeRoy Burton of Smith College, and President David Starr Jordan of Leland Stanford University, in regard to a statement made by President Burton to the effect that commercialism and materialism pervaded the life of young Americans.

In a recent address Professor W. T. Sedgwick declared that the rocking chair was an excellent piece of ventilation mechanism because in rocking back and forth a movement of the air is induced.

Presidents Richard C. Maclaurin of (Continued on page 3)

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COURSE II NEWS

At the request of the engineer in charge, Messrs. Haines and Hall of Course II were sent by Prof. Miller to assist in testing the new triple expansion rotary pump just installed for the Metropolitan Sewage System at Deer Island by the Allis Chalmers Company.

This pump has a rated capacity of one hundred million gallons per day. The first attempt to run a test was given up because it was found impossible to obtain the full capacity owing to lack of work for the pump to do. An attempt was made to by-pass water back through one of the other pumps and so obtain the full load conditions, but this did not solve the difficulty.

The best that could be done in the preliminary test was to pump at the rate of eighty million gallons per day against the greatest head obtainable, which at high tide was ten feet. Several preliminary and a final test will be run as soon as the conditions are more favorable.

Besides the new pump, the station on Deer Island has three smaller ones, one having a capacity of forty-five million gallons, and the other two forty million gallons each per day.

Mr. Belknap, the engineer in charge of the tests for the Company, is a graduate of the University of Arkansas in the class of 1908, and received his present position after taking the apprenticeship course offered by the Allis Chalmers Company. A representative of the Company has addressed the graduating men in Course II, on this subject each Spring for several years.

The Mechanical Engineering Society excursion to the steel rolling mill of the Stanley Works at Bridgewater, Mass., scheduled for this week Saturday, has been postponed a week on account of Professor Miller being unable to accompany the party on the date planned. Many instructors are planning to take this trip with the Society, and a record-breaking and enthusiastic party is expected.

(Continued from Page 2.)

Technology and David Starr Jordan of Leland Stanford addressed the convention of the Delta Upsilon Fraternity Saturday night.

According to the newspapers, Mr. Henry J. Horn, 1888, general manager of the Northern Pacific Railway, has been appointed assistant to President Mellen of the New York, New Haven & Hartford Railroad.

Mr. William H. Gerrish, 1888, has been appointed chief inspector of the Boston Smoke District by the Board of Gas and Electric Commissioners. He entered upon his new duties November 1.

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During this term the Seniors in Course III have made several blast furnace, roasting and mill runs, using carious ores. In the first kind of runs a lead ore was reduced by coke, there resulting an impure lead containing a small per cent. of silver. This was refined later in a large cupel, and the silver extracted by means of zinc. When copper ore was used the metal was collected in a matter which is a combination of iron sulphide and copper sulphides.

In the roasting runs, pyrite was roasted in either a mechanically or a hand-rabbed reverberatory, and the metal refined in another furnace.

The lead ore used in the mill runs first went over a trommel or screen which separated it into two sizes over and under two mm. in diameter. The over-size went to a jig which separated the gangue from the galena, and the under-size went to a Richards free-setting classifier, invented by Prof. Richards. The classifier gave three sizes of products. The first was separated by a jig, the second by a Wilfley table, and the third by a round table separated. In all cases the products were (1) concentrates, almost pure galena; (2) middlings, not so high in galena, and (3) tailings, which in practice were thrown away.

Gold was extracted by amalgamation of mercury. The ore was fed to a stamp mill where three heavy stamps were lifted by means of cams and allowed to drop on it, crushing it very fine. Each stamp dropped about a hundred times a minute. The gold was collected by mercury in the stamp mill itself on a copper plate covered with silver amalgam, over which ore passed. The crushed ore after passing over the mercury went to a vanner, which separated the valuable ore from the valueless gangue. In practice, the concentrates, as the good ore is called, is treated for gold by the cyanide process.

There were two gold mill runs. The first was on a New Hampshire gold ore of low grade, and only about seventy-five cents' worth of gold was extracted. The second ore was of a high grade from Nova Scotia, and about twenty-five dollars' worth of the precious metal was extracted. In assaying, the class has also studied the cyaniding and chlorination processes for gold extraction.

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ASSISTANT MANAGERS OF TECH SHOW.

Competition for assistants in Tech Show, 1911, has begun. There are three assistants to be chosen, preferably one Sophomore and two Freshmen. Manager Lenaerts will be in the Show Office, Room B, daily, from 1 to 2 o'clock, to meet all candidates.

SENIOR PORTFOLIO ELECTIONS.

Ballots for Senior Portfolio Committee elections have been left at the Cage for every man carrying a majority of subjects with 1911. Ballots due at the Cage Monday, December 5, at 4 P. M.

H. F. DOLLIVER, Clerk.

1912 PROM. COMMITTEE.

All nominations signed by ten men must be at the Cage by 4 P. M., Monday, December 5.

J. L. BERRY,
P. W. DALRYMPLE,
BATES TORREY.

NOTICE.

Tech News Board Meeting Saturday, December 3, at 1 P. M.

CIVIL ENG. SOCIETY PINS AND FOBS.

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A small black leather-covered note book with owner's name inside front cover. Finder kindly leave at the Cage. (3)

NOTICE.

Gentlemen, I call to your attention that I will pay more for your cast-off clothing than any one in my line of business. A trial will convince you. Send postal to Max Keezer, 3 Bow street, or telephone Cambridge, Mass., 302. (tt)

NOTICE.

Two volumes of Technique for sale, 1894 and 1895; 1895 is dedicated by President Walker and has his picture as a frontispiece. Apply at Room 36, Walker.

Ben Ellis, 94 Dudley street, pays highest prices for Students' cast-off clothing. Send postal and will call. Nov 22 (1)

NOTICE.

Lost—A Cravenette Coat in Eng. B. or Eng. A. Thursday afternoon. Finder return to the Cage and receive reward. F. C. Weiss. (3t)

1913.

There will be a class meeting December 7th, at 1 o'clock, for the purpose of setting a date for Technique Electoral Committee Elections.

S. M. BAXTER, Clerk. (3)

NOTICE.

Swimming Team meeting at Union at 4.10 P. M., Monday, December 5th. Every man interested in swimming should make it a point to attend.

The sectional clubs of Princeton, to which belong men coming from the same section of the country, are put under the supervision of the Senior council and are utilized to send out college periodicals and literature about Princeton.

Byrn Mawr College celebrates its twenty-ninth anniversary this fall.

At Indiana a ruling has been passed which safeguards the amateur character of college athletics. If any man declares himself eligible for athletics who has played in a professional capacity he is not only dropped from the team but from the institution as well.

Manager Yack of the Grand Opera House of New Haven has asked the Yale students to co-operate with him in fighting the ticket speculators. One speculator has been arrested.

"Fresh Ideas and Ideals" is the name of a Freshman weekly paper at Drake University.

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