

THE TECH

VOL. XXX. NO. 69

BOSTON, MASS., TUESDAY, JANUARY 3, 1911

PRICE TWO CENTS

DARTMOUTH DEFEATED IN VERY CLOSE GAME

Technology Wins By Superior
Team Play and
Shooting.

SCORE: DARTMOUTH 1, TECH 3.

Gould and Hurlburt Stars for Tech;
Norris and Wells For
Dartmouth.

Before a large audience the Dartmouth and Tech hockey teams played a closely contested game at the Arena last night. The game was very slow in the first half, some shots being tried mostly by the Tech men, but were blocked by the goal tenders. The Dartmouth goal tender especially made many clever stops. The ice was in very poor condition on account of the thick mist caused by the ammonia vapor.

The Dartmouth team was on the defensive during nearly all of the first half, the score at the end of that period standing 0 to 0. Gould and Hurlburt played a star game for Tech during the first half. Gould played the best game he has played this year, breaking up the Green's plays and taking the puck down the ice in great style. Both teams made good interference, and the Tech team played their best game this year, but it had worthy opponents. Stucklen and Vose were each taken out for two minutes, while Sloane was hurt and the game was held up for several minutes. The half ended with the puck in the middle of the ice.

The second half started very slowly. Gould was taken out for two minutes, and when he returned he took the puck down the ice and made a good try for goal, but it was blocked by the Dartmouth goal. Then Hurlburt took the puck and shot a goal. In a few minutes Stucklen took the puck down the ice and made a clever goal, but it did not count on account of a foul. He shot another goal in a few minutes. Dartmouth got the puck and made a try for a goal, but Bakewell made a clever stop. Hurlburt made another goal after a few minutes of play; then Dartmouth took the puck down the ice and Wells made their only tally.

The summary:

Technology.	Dartmouth.
S. Eaton, f.....f.	Hurlburt
K. Stucklen, f.....f.	H. Stucklen
F. Eaton, f.....f.	Sloane
Wells, f.....f.	Scoville
Luhman, c. p.....c. p.	Gould
Bullard, p.....p.	Vose
Norris, g.....g.	Bakewell

Score—Dartmouth 1, Technology 3.
Referee—O'Donnell.
Umpire—Dr. Tingley.
Goal Judges—Emerson and Van Buskin.
Time—20-minute halves.

MEMBERS OF FACULTY IN ECONOMIC WORLD

Professor Dewey Made Managing
Editor of Paper—Mrs.
Richards Presides at
Meeting.

Professor Davis R. Dewey was appointed last week to the position of managing editor of the "American Review," which is the official publication of the American Economic Association. This paper is published quarterly, and was formerly known as the "Economic Bulletin." The managing editor was a professor at Cornell.

Mrs. Ellen H. Richards, President of the American Home Economic Association, presided at the meeting of that society held in St. Louis the week after Christmas.

CARNEGIE FOUNDATION REPORT NOW ISSUED

Much Interest Shown in Result
of Investigations Carried On.

FALLACIOUS STANDARDS.

Report Is an Aid for Educators But
Confusing to Laymen—Institute
Involved.

In commenting on the Carnegie report on "Efficiency" in the Department of Physics at the Institute, one of Technology's friends said recently:

"The report lays great stress on the adoption of some standard of cost for teaching in different institutions. For this purpose, 'cost per student hour' has been used, and the figures of such costs are tabulated for eight institutions. Are these figures really worth the elaborate computations necessary to obtain them? The value of the land upon which physics buildings stand is a factor in the cost per student hour.

"Take the Massachusetts Institute of Technology. Its value has been set at \$900,000, on the rating, apparently, of other estates in the vicinity. But there are restrictions on the land, and by no possibility, without legislative action, could the sum estimated, or any sum near it, be realized. It is not a just comparison therefore, when such an important factor is neglected.

"Do these figures really represent efficiency? Certainly not, for they make no measure of it save that of cost. The products of the different institutions are not compared, and they are the true efficiency. It would be possible to reduce the student cost almost to zero by having large classes and poorly paid instructors, so that the student cost is not a safe standard save when accompanied by explanatory notes.

"What seems at first sight to be more serious is the presentation of figures of inbreeding, which for the Institute of Technology are set at 70 per cent. in the Department of Physics. This is more an appearance than a reality, and is illustrative of the risk of accepting figures without descriptive text.

"There is a vicious inbreeding, it is true, that takes an undue proportion of its instructors from its graduates, keeping them in the same institution, without an opportunity to go about in the world for the rest of their lives.

"But when the graduates have had considerable experience in other institutions and then return, the objections are practically removed. To bear on the question of inbreeding, the statistics should present post-graduate experience, and the lack of it here robs the conclusions of their strength.

"Enough has been said and instances enough have been given with reference to the institution most nearly at hand to show how careful one must be in the preparation and use of statistics. The research of the Carnegie Foundation has been a useful one, the slips in getting such a mass of information are minor ones, and the results will prove of value to educators, but at the same time may prove misleading to laymen."

The Boston Herald, after a newsy account of how the Carnegie report is misleading, treats the matter editorially, and after discussing the "cost per student hour," said in part:

"Statistical computations of the sort undertaken by the Carnegie Foundation do not, therefore, form a very safe basis for conclusions. That is not to say, however, that they are without their value. If nothing else, they will serve to make the college authorities more watchful, more energetic in the curtailment of waste, and more attentive to the multitude of details which affect instructional efficiency."

WIRELESS SENDING STATION FOR TECH

Efforts Are Being Made to
Secure the Necessary
Permission.

OBJECTIONS OVERCOME.

New Men Have Joined Society
and Plans Are Being
Pushed.

Every effort is being made by the leaders in the Wireless Society to make it possible for Tech to have a wireless sending station in the near future. At first, when the matter was suggested, there were various objections offered, among them being the one that a station at Tech might cause trouble because of the possibility of our interfering with the commercial stations in and near Boston, but this objection has now been successfully overcome and there is every prospect for our having such a station within a very short time.

A large number of new men have joined the society this year, and among some of them there has been a feeling that the matter of securing a sending station was not being pushed sufficiently. This, however, has not been the case, and the committee in charge has been hurrying matters as much as was possible.

A meeting of the society will be called some afternoon of next week, the date will be announced later in The Tech, and at that meeting every member is urged to be present. Matters of importance to the society will be brought up and a report of the committee who have been working on the plan for a transmitting station will be read.

The opening of the New Year should and will mark the beginning of a more active work among the society members.

For the use of the members a key to the wireless room will be left at the Cage some day this week. The member using the key will be expected to sign for it, and when he finishes with it should return it to the Cage. Otherwise, the member to whom the key is charged will be held responsible for it.

GLEE CLUB TO GO TO PROVIDENCE WEDNESDAY NIGHT

New Schedule of Rehearsals
For Musical Clubs
Announced.

At 8 o'clock P. M., on Wednesday night, the Glee Club, Vocal Quartette and Reader of the Institute will give an entertainment in the Churchill House, Providence, before the Kappa Alpha Theta Sorority of Brown University. The affair is a private one, and will be followed by a dance. A full attendance of the Glee Club in full dress before leaving is desired. The train leaves the Back Bay Station at 5:30 P. M.

An important rehearsal is to be held on Tuesday at the Union.

The announcement is made that for the remainder of the term the Glee Club will rehearse on Tuesdays, and the Mandolin Club will hold rehearsals on Thursdays.

Philip Ephraim Swartout, of the class of 1913, died on January 1st, at Rutland, Mass. He was a member of his class football team last year. He contracted consumption while at the Institute and was forced to leave school last June.

THERMAL PROPERTIES OF CONCRETE STUDIED

Professor C. L. Norton Gives Re-
port in Engineering News of
Results of Experiments.

The Engineering News of December 29th contains a most interesting article by Professor C. L. Norton on "Some Thermal Properties of Concrete." A series of experiments have been made at the Institute for the past three years, and work is still being done to determine the following physical properties of concrete:

1. Coefficient of linear expansion.
2. Diminution of mechanical strength after heating.
3. Specific heat.
4. Coefficient of thermal conductivity.

The values of the coefficient of linear expansion at low temperatures has been found to agree with the accepted value of 0.000055 for elongation per unit of length per degree Fahrenheit. This value increases slightly up to 575 degrees, and then becomes smaller till at 1500 degrees the coefficient becomes zero. Above this the value is slightly negative.

The most important information secured from the tests of the mechanical effects after heating was that "even after exposure to a fire in which the concrete block, small in size, was subjected to flames at a temperature of 1500 degrees for two hours, it was still able to carry twice its normal safe load in compression."

The specific heat for stone concrete varies from 0.154 to 0.219 for temperatures between 72 and 1472 degrees Fahrenheit.

In studying the thermal conductivity of concrete it was found that porous or untamped concrete transmits heat twice as well as a dense mixture, and that cinder concrete is about three times as effective as a dense stone mixture as a heat insulator.

ANNUAL PLANT TEST.

Beginning this morning at 8 o'clock, the Seniors in the Electrical and Mechanical Departments are making the annual plant test of the heating and lighting plant of the Institute. The men are divided into parties and work will be carried on continually until Friday, at 4 o'clock P. M. On Monday next the complete data collected during the test will be given to the men to be worked up.

CALENDAR.

Tuesday, January 3.

- 1.30—Union Committee Meeting—Dean's Office.
- 4.00—Glee Club Practice—Union.
- 4.15—Gym Team Practice—Gym.
- 4.15—1914 Indoor Track Team—Gym.
- 4.15—Varsity Indoor Track Team—Gym.
- 4.30—Orchestra Rehearsal—Union.

Wednesday, January 4.

- 4.00—Basketball Practice—Gym.
- 4.15—Gym Team Practice—Gym.
- 5.00—1914 Basketball Practice—Gym.
- 5.30—Hockey Practice—Arena.
- 5.30—Glee Club at B. B. Station for Providence Trip.
- 7.00—Alumni Dinner—Symphony Hall.

Thursday, January 5.

- 1.30—House Committee Meeting—Cage, Union.
- 4.00—Mandolin Club Practice—Union.

THE TECH

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TUESDAY, JANUARY 3, 1911.

The victory against Dartmouth at the Arena last night was a victory not only in score. In the game, the quality of bull-dog grit so generally attributed to Yale was very noticeable. From the first of the season the team has played together and fought till the last whistle of the game. The men have kept their nerve and, with improved endurance as the season advances, they are developing into a star team for the Institute. The spirit of the team certainly merits the splendid support it is being given by Tech men.

This "fight to the finish" spirit is being shown by the basketball team as well as the hockey team, and promises a decidedly successful year in winter sports at Technology. Regardless of scores this spirit deserves the best of support we can give the teams. It is the spirit that won for Yale this fall its "moral victory" against Harvard, and it is the spirit that is becoming more widely characterized as Tech grit.

ALL SHOW LYRICS DUE TODAY.

The circulation of The Tech jumped yesterday to about 1200. Of course this was due to the exam schedule. We can't have a new exam schedule for every issue, but we always have articles which ought to be equally interesting to the average student. Why don't you subscribe regularly? You will find it of value and you will be supporting one of the largest student activities at the Institute. If The Tech does not receive better support it will have to cease publication on February 1, 1911.

The Tech has been published continuously since 1881. Do you want to see it abolished?

It is interesting to note the following statement from an address by Dr. D. A. Sargent on professionalism in amateur circles made before a meeting of the Athletic Research Society in New York last week:

"We must build the all-around ath-

lete. As it is now, the boy who is expert in a special line of sport actually dictates terms to his college, because his place cannot be filled easily."

This program of Dr. Sargent's, that "We must build the all-around athlete," has been the aim and animus of those in control of athletics at M. I. T. for the past twelve or fourteen years, ever since the Advisory Council was instituted, and it is a sign of the progressiveness of the Institute in other lines than engineering education, when academic colleges and universities suddenly discover (?) that these are the correct and proper policies.

TECH VS. B. C. AT BASKETBALL

Second Game of Series Will Be Played Tomorrow Evening.

Tomorrow evening Boston College and Tech clash at the Gym in the second basketball game of their series. The first game was played on December 21st, and was won by Technology, with a score of 46 to 35. During the two weeks since then both teams have played games, and the next contest will show better form on both sides. The last game was the opening one of the season for each team, and neither had yet found its pace or perfected its team work and passing. By Wednesday night, however, both fives will be in the pink of condition and the game will be fast and close. Parker and Palmer are the star shots of the Institute team, and Churchwood is easily Boston College's best man.

The probable lineup:
 Technology. Boston College.
 Parker (Capt.) I. f. r. b., Heath or Haskell
 Palmer, r. f. l. b., Halligan
 Johnston, c. c., Duggan (Capt.)
 Crocker, Darling, l. b. r. f., Churchwood
 Schar, Freedman, r. b. l. f., Murphy, Haskell or Heath

ANNOUNCEMENT.

It is with great pleasure that we announce the engagement of Mr. Chester L. Dawes, of Arlington, Mass., to Miss Anna Davis, a student at Radcliffe. Mr. Dawes was a graduate of the class of 1909, of Technology, and is now an assistant in the Electrical Engineering Department at the Institute. The announcement was a great surprise to his many friends at the Institute, but it has long been expected by those who knew him more closely. We extend our most hearty congratulations.

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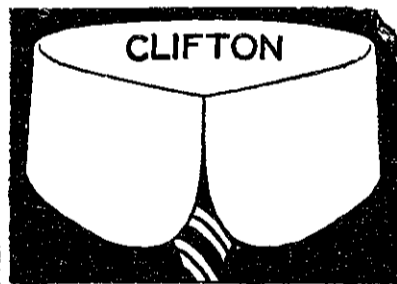
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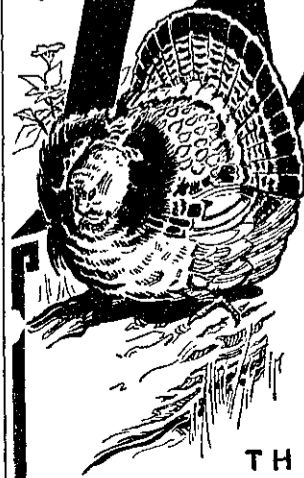
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THE RELIABLE REPEATERS

**MECHANICAL ENG.
DEPARTMENT NEWS**

E. R. Hall, 1911, and T. H. Haines, 1911, Make Test on Quincy Market Refrigerator.

TWENTY-SIX MEN ASSIST.

Station Contains Four Units, Two of Compression Type and Two of Absorption Type.

Messrs. E. R. Hall and T. H. Haines, Seniors in Course II, have just completed a test on part of the Richmond street plant of the Quincy Market Cold Storage and Warehouse Company, in connection with their thesis on An Efficiency Test on a Complete Refrigerating Plant.

The system tested was of the ammonia compression type, and consisted of a 200 H. P. Harris-Corliss engine making 60 R. P. M., a 500-ton compressor of the Boyle type, a battery of four bottle condensers, brine cooling coils, brine pump of 2000 gallons per minute capacity, the whole taking steam from a 300 H. P. Stirling boiler equipped with a Foster superheater, which carries 120 pounds pressure and 100 degrees superheat.

A twenty-four hour test was run of two shifts of twelve hours each, thirteen men on a shift. The men assisting were J. H. Dunlap, H. S. Alexander, K. B. Kilborn, O. V. Chamberlain, D. P. Allen, K. C. Robinson, J. A. Herlihy, W. S. Burleigh, A. R. Davis, Kester Barr, E. T. Marceau, H. C. Brown, H. A. Smith, Morell MacKenzie, H. S. Lord, R. G. MacPherson, C. T. Morey, H. W. Waterfall, E. E. Besse, A. L. Gardner, Foster Russell and H. A. Brown.

Besides the one tested, the station contains four other units, two being of the compression type and two of the absorption type. One of these

compressors was built by the Consolidated Company, and the other by the De Laverne Company, both being driven by Harris-Corliss engines. The absorption machines are of the Carbondale type, one of 150 and the other of 250 tons capacity. The boiler plant contains in all four Stirling boilers and Foster superheaters, and has a total rating of 1200 boiler horse.

IN THE LIMELIGHT.

Bursar Rand is wearing a happy smile. Second term tuitions will soon be due.

The daily whist contest was in progress in the Union yesterday as usual. The only new feature was the cap Pease wore.

Over a thousand "Techs" were sold yesterday! Why?

The time for "sore eyes" and being offered a lucrative position is at hand. Better plug!

The Union hit a great pace yesterday. All we need now is some flossy waitresses and some appropriate music.

Andy Mack gets in another lick on the first of February.

An award of two theatre tickets will be given each week to the men contributing the most articles to this column. They should be snappy and less than 50 words long.

One of the professors of Berlin University told an American professor that the American attendance in foreign schools was falling off because they could get the same work at home and did not have to go abroad for it.

FATIMA

TURKISH BLEND CIGARETTES

PSYCHOLOGY

The brain is a complex organism with many marvelous attributes.

Memory is one of them—hence do not forget Fatimas.

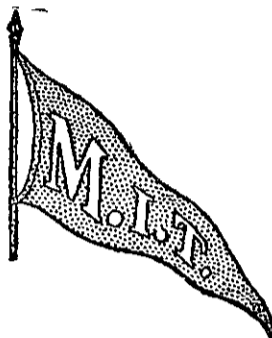
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First Year—Choice of Course.
Circulars in regard to the Choice of Course were sent to all first year students with the report of standing for the second five weeks. Cards will be distributed among first year students at some Chemistry exercise, and they are to be returned with a provisional Choice of Course indicated on them. This choice is not binding, but students are earnestly asked to consult with their parents and their instructors at once in order that this provisional choice may be made within the next two weeks.
WALTER HUMPHREYS,
Registrar.

NOTICE.
The Tech will pay five cents for copies of each of the following issues of last year: Nos. 53, 121, 137.

NOTICE.
LOST—A Slide Rule in leather case, with owner's name on it; \$1.00 reward.
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NOTICE.
First Year—Conferences in Regard to Choice of Course.
Course I and XI, Professor Spofford, will meet students on Thursday, January 5th, at 1.15 P. M., in Room 49, Engineering A.
Course II, Professor Lanza, will meet students on Wednesday, January 4th, from 1 to 2 P. M., in Room 11, Engineering B.
Course VI, Professor Jackson, will meet students on Monday, January 9th, from 1 to 2 P. M., in Room 6, Lowell Building.
Course XIII, Professor Peabody, will meet students on Tuesday, January 10th, from 1 to 2 P. M., in Room 32, Engineering C.
ALFRED E. BURTON, Dean.
January 2, 1911.

NOTICE.
First-Year English.
Members of Mr. Colleston's section, meeting Mondays and Wednesdays, are asked to procure, and to bring to class on January 4, copies of the pamphlet by Professor Robinson, entitled "Note Taking." (Tues-Wed.)

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HENRY RUSSELL, Managing Director
Wed. Eve., Jan. 4, 1911, at 8 p. m.
Lucia
Fri. Eve., Jan. 6, 1911, at 8 p. m.
The Pipe of Desire
Preceded by
Cavalleria Rusticana
Sat. Mat., Jan. 7, 1911, at 2 p. m.
Madama Butterfly
Sat. Eve., Jan. 7, 1911, at 8 p. m.
Mefistofele
Sat. Eve., POPULAR PRICES 50c. and \$1.00
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