

THE TECH

VOL. XXX. NO. 66

BOSTON, MASS., THURSDAY, DECEMBER 22, 1910

PRICE TWO CENTS

BASKETBALL TEAMS WIN BOTH GAMES

Large and Enthusiastic Crowd of Spectators Witness the Opening Games.

VARSIITY SCORE: 46 TO 35.

Technology Outclasses Boston College Throughout Game — Palmer and Churchwood the Stars.

Technology defeated Boston College last night before a very enthusiastic crowd of Tech men, Boston College men and outsiders. The team played a clean, fast game all through and seemed to have it on the college team in every way. The fellows turned out in a way that spoke very well for their interest in the game, and they more than out-cheered the snappy rooters from the college. Crocker scored first and was immediately followed by Parker; then in a mixup with Parker, Murphy was hurt and had to be replaced by Haskell. The game then see-sawed back and forth with a score now for Tech, and now for Boston College, till the end of the first half found a score of 22 to 21 for Tech. The spectators were up on their feet with excitement when the second half opened with a basket by Churchwood, the clever college forward. The college held this lead for about five seconds and Tech was again ahead, not to be stopped again till the referee's whistle blew for the end. The final score was 46 to 35 in favor of the Institute team. Captain Parker's men got into the game at the very start and stayed in all the time. The passing and team work was very good, but the covering at times could have been improved a great deal—the men seemed to forget that they had to keep a college man from scoring. The college team as a whole was strong on their long shots, much more than on their team work or passing. Churchwood was easily the star for the college, and Palmer for Tech. All the subs were given a chance to show what they could do, and all made good, Ell and Schar in particular. Johnston and Parker both played good games, but their work was far behind that of Palmer, who was in every play and all over the floor, scoring, passing and keeping up a running fire of comment to the men. The value of the training table was shown by the snappy way that the team came back in the second half, for their play was even better than it was in the first half. The teams in years gone by have always finished very weak, but last night was one big difference, for at the end it was all Tech. The men came through the game with no serious injuries and will leave for New York full of confidence in themselves and the knowledge that the Institute is behind them.

The lineup:
Tech—46. Boston College—35.
Parker (Capt.), Ell, I. f.
r. b. Heath, Haskell
Palmer, r. f. I. b. Halligan
Johnston, c. c. Duggan (Capt.)
Crocker, Parker, I. b. r. f. Churchwood
Darling, Schar, Freedman, r. b.
I. b. Murphy, Haskell, Heath
Score: Technology, 46; Boston College, 35.
Referee—W. B. Hargraves.
Timer—Tarr.
Scorer—Chandler.
Time—Two 20-minute halves.

The Second team also came off the floor victorious. It was a fast game from start to finish, and both teams played well. During the first half the game was decidedly one-sided, in

(Continued on Page 3.)

MANUFACTURE OF SUGAR IN PORTO RICO

Mr. G. W. Rolfe, Instructor in Sugar Analysis, Speaks to Chemical Society.

MANY SLIDES SHOWN.

Geographical Feature of the Island and Life of Natives Described.

A most interesting talk was delivered before the Chemical Society last evening by Mr. George W. Rolfe. Mr. Rolfe has been many years connected with the practical side of the manufacture of sugar, and lived for some years on the Island of Porto Rico. He took for his subject "Sugar," and with the aid of slides showed and explained most of the operations which occur from the time the sugar cane is first planted up to the time when it is shipped away to the refineries.

Among his slides were many which showed the peculiar and interesting geographical features of the island. A magnificent military road, some eighty miles in length, extends through the island and often winds through beautiful valleys, where it is bordered on both sides by large sugar plantations.

Before the Spanish-American war coffee was the chief export from Porto Rico, and there was a great demand for it by the people of Southern Europe. But now Brazil is able to raise coffee much more economically than can Porto Rico, and so sugar has become the chief export of the island.

In the days of the Spanish regime most of the larger sugar planters maintained their own mills, but now this is not the general practice. Instead the planters ship their cane to central sugar mills which are equipped with modern machinery and which handle many thousands of tons of sugar per year.

The natives of the island are very dark-skinned negroes, and with many their chief food supply is bananas. Perhaps it may be interesting to know that the banana supports a greater number of people as a food than does any other fruit.

After the lecture was completed refreshments were served to the society and all men who had not previously received their shingles were given them at this time.

A large crowd was present at the lecture and showed their appreciation of Mr. Rolfe's talk quite vigorously.

OFFICERS ANNOUNCED FOR CORPS OF CADETS

All Officers Except Corporal Have Been Appointed —
New Drill Hours.

The appointments to the staff of officers of the Corps of Cadets, which have just been announced, are:

To be Major, L. R. Golden.
To be Adjutant, H. M. Priest.
To Company A: Captain, S. E. Rogers; 1st Lieutenant, D. V. Dierkes; 2nd Lieutenant, F. H. Achard.
To Company B: Captain, K. D. Hamilton; 1st Lieutenant, L. C. Gustin; 2nd Lieutenant, E. M. Bridge.
To Company C: Captain, E. W. Taft; 1st Lieutenant, F. B. Morton; 2nd Lieutenant, S. Breck, Jr.
To Company D: Captain, R. D. Sampson; 1st Lieutenant, E. E. Smith, Jr.; 2nd Lieutenant, A. J. Pastene.

The following appointment of non-commissioned officers is announced:

(Continued on Page 3.)

THE INVENTING OF AN INVENTION

Mr. J. K. Whiting, 1889, Tells Mining Engineers Method of Procedure.

FIVE DIFFERENT STAGES.

Working Out of Process Takes Much time and Patience Is Inventor's Virtue.

In the two small rooms of the Union the Mining Society held last night their last meeting of the year. After various business matters had been discussed, Mr. J. K. Whiting, 1889, was introduced, and he talked in a most interesting manner about the method to be used in working out an invention.

The procedure in perfecting an invention may be divided into five stages; the beaker stage, the small model stage, the large model stage, the small commercial plant stage, and the large plant stage. First, it is necessary to test the correctness of the theory underlying the invention, to write a description and make drawings, to look up the novelty of the experiment, to investigate the work done along similar lines, and to search out the soundness of the commercial value of the invention. Men have often developed processes by years of hard work only to find them non-commercial.

The second stage is that of the small sized unit. Here the scope and the limits of the usefulness of the process must be determined. A small working model does not necessarily prove the commercial success of a life-sized unit.

In making the life-sized model it is best to call in the services of a good mechanical engineer. When it is finally determined that the invention will work satisfactorily, a patent is applied for.

At the fourth stage the question of finances must be dealt with. To get the proper assistance here it is usually necessary to prove that the invention can be operated by an unskilled workman. Lastly, each section of the process must be thoroughly examined, and all possible perfectations made. There is no shorter process of getting an invention into working shape than the one Mr. Whiting gave. A strong love for the game must be inherent in the makeup of every successful inventor.

Mr. Whiting was a war correspondent in China during the time of the Boxer uprising, and he told many of his experiences in that country.

After the lecture refreshments were served.

SCIENTIFIC MEN AND THE CATHOLIC CHURCH

Catholic Club Hears Lecture By Rev. Fr. Finnegan — Dance Committee Reports.

About fifty members of the Catholic Club heard the Rev. Father Finnegan of the Cathedral of the Holy Cross give a beautiful lecture last evening on "The Relations of Scientific Men of Today to the Catholic Church." Mr. Louis K. Rourke, Commissioner of Public Works of Boston, was to have been the speaker of the evening, but he telephoned late yesterday afternoon that he would be unable to speak on account of a severe cold.

Following the lecture a business meeting was held, the most interesting feature of this being the report rendered by the committee in charge of the dance which is to be held in

(Continued on Page 2.)

LYRIC COMPETITION FOR SHOW OPENS

Stage Manager Schell Meets Men Who Will Write Songs For "Frenzied French."

TITLES SUGGESTED.

Show Lends Itself Admirably to Lyric Writing — Topical Songs Wanted.

About twenty men reported at the Show office yesterday afternoon to hear about the lyric competition. This is a fairly good delegation, but better things are hoped for in the next few days. The Show lends itself admirably to lyric writing, and this fact was made evident to the men by Stage Manager Schell, who told them what the lyrics were to be and gave them a few hints as to their general tone. Following is the list suggested by the authors:

The Trials of a Hostess, a duet. Excitement.
I'll Be Down in a Minute, a quintette.
The Practical Joke, a duet.
Be Moderate.
Study, a double quintette.
The Butler's Story.
What Was I Thinking of Then?
If I Could Only Talk Like That, a quintette.
Inspiration.
The Easiest Thing You Know.
Such a Happy Disposition, a trio.
Isn't It Romantic.
Mr. Sherlock Holmes.
Parlez-Vous Francais? a double octette.
A Man, a Maid, and Cupid, a duet.
Every Juliet Has a Romeo.

The following rules governing the contest have been printed by the management:

1. Lyrics are preferably to be type-written on 8x10 paper.
2. Write three verses and a chorus.
3. Sign your name to each sheet.
4. Lyrics should be placed in sealed envelope and mailed to E. H. Schell, care Tech Show, or left at the Cage not later than 4 P. M., January 3rd, at which time competition closes.

We shall be glad to consider any lyrics that do not come under this list that the writers think suitable to an up-to-date show.

The list of successful lyric writers will be published in The Tech as soon as the decisions are made. Watch for the Hall of Fame.

Those who intend to write lyrics should remember that local hits always take with an audience such as the Tech Show gets, and as many puns as are compatible with the subject may be worked in to advantage. In a good many cases it is advisable to make the first two verses strictly conform to the subject and then to write some sort of a parody for the last one. Nearly all the songs are to be more or less humorous, and if anyone has a good idea for a topical song with some title not listed above his contribution will be gladly received for consideration.

CALENDAR.

Thursday.

1.00—1914 Mass Meeting—H. H.
1.30—House Committee Meeting—Cage.
4.00—Mandolin Club—Union.
4.00—Glee Club Practice—Union.
4.15—Civil Engineering Society Meeting—6 Lowell.
4.15—Technique Board Meeting—Union.
4.15—Varsity Track Team—Gym.
4.15—1914 Track Team—Gym.

THE TECH

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THURSDAY, DECEMBER 22, 1910.

The meeting for lyric writers for Tech Show, 1911, yesterday, brought out about twenty contestants. This is an average delegation in size, but we believe there must be more men of talent at the Institute who should be entered in the competition. The Show songs are almost always clever and catchy and really remarkable for amateur talent, but the contributors are generally but few in number each year. The man who has never before written a show lyric is sometimes bashful about sending in a first attempt that might prove the musical hit of the Show. The Christmas recess gives us the bit of time necessary to think up a few verses on some of the subjects suggested or on other subjects suitable for topical songs. The more there are who write lyrics the greater the field of choice and the more successful "Frenzied French" will be. Write down that catchy line before you forget it,—and hand it in.

ART OF BUILDING AND KEEPING ROADS

To Be Discussed Before Civil Engineers at Meeting Today.

The meeting of the Civil Engineering Society which was to have taken place yesterday will be held this afternoon in Room 6, Lowell Building, at 4.15 o'clock. As has been announced, the speaker on this occasion will be Mr. F. C. Pillsbury of the Massachusetts Highway Commission, and the subject to be discussed will be "The Principal Methods of Road Construction and Road Maintenance."

There is also quite a little business to be transacted, and notice will be given about the new pins which are now being made for members of the society.

NEW JAPANESE TREATY CONSIDERED

Senator Knox Hopes It Will Be Entirely Satisfactory.

Negotiations are well under way for a new treaty between Japan and the United States, to replace the treaty of commerce and navigation of 1894. Some of the questions involved are of more than ordinary delicacy, especially the problem of "Japanese exclusion." Senator Knox is sparing no pains in his efforts to perfect a convention which shall not only leave no point uncovered, but which shall prove satisfactory to all concerned, and to that end is availing himself of the expert opinion and assistance at his command.

Of course, the problem which presents the gravest difficulty is that concerning the admission of Japanese laborers. The existing treaty, while insuring to each of the contracting parties absolute freedom to trade in the territory of the other, unrestricted admission of each to the ports of the other, etc., specially provides that nothing which it contains shall be construed in any way to "affect the laws, ordinances and regulations with regard to trade, the immigration of laborers, police and public security which are in force or which may hereafter be enacted in either of the two countries." This provision has always been held by the diplomatic authorities of this country to contain abundant warrant for the specific exclusion of Japanese laborers.

(Continued from Page 1.)

Coolidge Hall on February 11, 1911. Everyone was urged to do his best to make this occasion a big success, and a great deal of enthusiasm was shown in the assent of the members to do so.

Invitations to the dance will be sent out next week, and the club wishes to announce to the students that the affair will be in no way sectarian. All men connected with the Institute were cordially invited to it, and they can secure formal invitations by leaving their names and addresses at the Cage, or by notifying any member of the committee of their intention to be present. The following men are on the committee: President T. S. Killion, 1911; J. A. Herlihy, 1911; W. F. O'Brien, 1912; W. V. Schmiedeke, 1912; L. F. Walsh, 1912; C. G. Fallon, 1913; R. J. Murphy, 1913, and C. A. Linehan, 1912.

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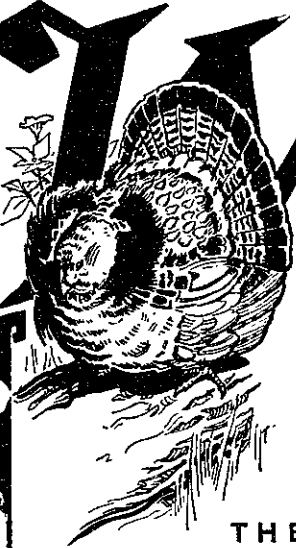
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THE RELIABLE REPEATERS

COSMOPOLITANS TO MEET NEW YEAR'S EVE

Dinner Will Be Held at Tech Club On Newbury Street—Club Notes.

On New Year's Eve the Cosmopolitan Club will hold a dinner at the Technology Club in honor of the advent of the new twelve-month. Many good speakers have been secured, and the occasion bids fair to be a most enjoyable one. It is more than possible that at this time some information will be forthcoming about the new home for the club which will be somewhere on Newbury street. All the furniture has been moved from the old rooms at 480 Boylston street, and has been deposited in the Union. As soon as the house is secured the plan of having nights for different countries will be continued, and many good features have already been secured.

(Continued from Page 1.)

favor of the Seconds, the score being 20 to 2. However, in the second half, Winchester outplayed the Seconds and threatened to tie the score. The final score was 24 to 16. The lineup was as follows:

Tech Second. Winchester. Sampson, Kenrick, l. f. . . . b. Hamilton Stone, Hornor, r. f. . . . l. b. Hanson Mowry, c. c. Dover (Capt.) Metcalf, l. b. r. f. Hurd Muther (Capt.) r. b. . . . l. f. Martenson

(Continued from Page 1.)
To be Sergeant-Major, E. C. Gere; to be Chief Musician, N. E. Brooks; to be Drum-Major, W. H. Brotherton. The Sergeants are: For Company A. P. H. Taylor, R. Salisbury, W. G. Thomas, F. J. Mazzei and P. B. Owen; for Company B, L. F. Hamilton, Leigh S. Hall, L. W. Currier, H. A. Morrison and A. F. Graham; for Company C, H. B. Richmond, D. R. Dixon, S. W. Stanyan, C. A. Corney and H. E. Wicher; for Company D, C. L. Smith, G. U. Stewart, S. M. Ginsburg, A. C. Sherman, Jr., and F. B. Barns.

The Corporals of the Battalion will be announced after the mid-year examination to be held in January.

The announcement is made that after January 1, 1911, the drills on Mondays and Fridays will be held at 2 o'clock in the afternoon, superseding the chemistry lectures that are at present being given at this hour. The lectures will be given directly after the drills, at 3 o'clock, instead of at 2 o'clock.

The band of the Battalion is now fully organized and promises results later on.

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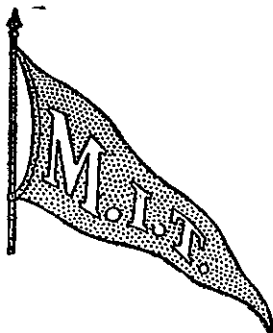
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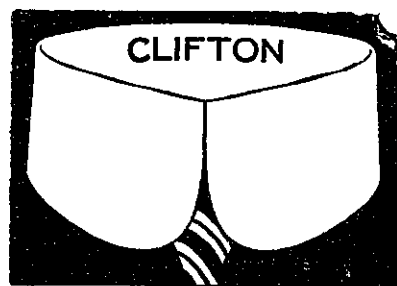


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NOTICE.
 December 19, 1910.
 The exercises of the Institute will be suspended on Saturday, December 24th, and during the following week. By vote of the Faculty instructors are requested to send to the Dean the names of all students who are absent from exercises on Friday, December 23rd, and on Monday, January 2nd.
 A. L. MERRILL, Secretary.

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NOTICE.
 LOST—A Slide Rule in leather case, with owner's name on it; \$1.00 reward.
 L. O. MILLS.

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

NOTICE.
 The following articles of clothing have been left in my office and are still unclaimed:
 One black overcoat, left in Lowell Building, November 16th (apparently the property of a Freshman from San Francisco).
 One light coat, left at the Cage September 30th.
 Two caps, left in Lowell Building November 16th.
 One raincoat, left in the Rogers Building.
 One pair of spectacles.
 I shall be glad to have the owners call at my office and identify their property.
 Yours very truly,
MAURICE R. SCHARFF,
 President's Assistant.
 December 7, 1910.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
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.

FIRST YEAR.
 Conferences in regard to the choice of courses will be arranged for the latter part of this term. The first conference will be by Professor Talbot, in Room 6, Lowell Building, Thursday, December 22nd, at 1 P. M. He will speak especially for Courses V and X. Conferences with the heads of other departments will be held immediately after the Christmas recess.
ALFRED E. BURTON, Dean.
 December 19, 1910.

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