

THE TECH

VOL. XXX. NO. 64

BOSTON, MASS., TUESDAY, DECEMBER 20, 1910

PRICE TWO CENTS

SOCIETY OF ARTS LECTURE THIS EVENING

Profs. Jaggard and Spofford to
Speak On "The Costa Rica
Earthquake of 1910."

627TH MEETING OF SOCIETY.

Lecture to Be Similar to One Given
Before the Combined Pro-
fessional Societies.

The Society of Arts will hold their 627th meeting at 8 o'clock this evening, in Huntington Hall. The meeting will be open to the public. Professor Thomas A. Jaggard, Jr., in charge of the Department of Geology, and Professor Charles M. Spofford, professor of Civil Engineering at the Institute, will lecture on "The Costa Rica Earthquake of 1910." A lecture similar to this was given by the same men at the meeting of the combined professional societies in November, and proved to be of great interest to all.

Professors Jaggard and Spofford made a special trip to Central America last summer in order to investigate the effects of the great earthquake at Cartago, May 4th, which caused widespread destruction of property and human life. The purpose of the trip was to gain information on earthquake-resisting construction. Professor Spofford will discuss the effects of the earthquake on buildings, and will show how certain types of construction resisted even the very violent shock of May 4th, 1910. Professor Jaggard will describe the geological causes of the earthquake and will show some remarkable and interesting stereopticon views. He will also describe the volcanic research work which the Institute is about to undertake on the edge of the crater of Kilanea, the famous volcano of the Hawaiian Islands, by the aid of the Whitney fund and gifts from friends in Honolulu and Boston.

The speakers found during their investigations that the wooden buildings resisted the shock of the earthquake best of all. Bahareque, a native type of construction, which consists of a wooden frame, across which strips of cane are nailed, and the whole filled with adobe, withstood the shock fairly well. The adobe buildings, however, crumbled to pieces, no resistance to the shock being offered by them. The question as to whether reinforced concrete is an earthquake-resisting type of construction will also be discussed. As the meeting is open to all, and the previous meetings have been very well attended, a large number are expected.

L. K. ROURKE TO TALK TO CATHOLIC CLUB

Will Speak On "The Chances of
Young Engineers in Latin
America."

Mr. Louis K. Rourke, 1889, Commissioner of Public Works, has accepted the invitation of the Catholic Club to speak at its meeting to be held Wednesday evening, at 6 P. M., at the Union. Mr. Rourke will speak informally on "The Chances of Young Engineers in Latin America." Few men in Boston are able to treat this subject as intelligently as Mr. Rourke, as he has gained his knowledge by working in South and Central America.

From the time that Mr. Rourke graduated from the Institute until ten years ago, he made wonderful advancement in his profession here.

(Continued on Page 3.)

TREASURER'S REPORT FOR YEAR PRESENTED

Pressing Need For Increased
Annual Income For
Institute.

ALUMNI CONTRIBUTE LARGELY.

Year Marks Termination of Alumni
Fund and State Grant.

The annual Treasurer's report, presented to the Corporation of the Institute this month by Treasurer William B. Thurber, emphasizes the necessity of obtaining an increased income for the Institute at the present time. In his report, Mr. Thurber makes the following statement:

"It would be difficult to emphasize too strongly the financial needs of the Institute at the present time. The termination of the Alumni Fund, amounting approximately to \$40,000 per year; the expiration in 1911 of the State grant of \$25,000 per year, together with an annual deficit of at least \$25,000, show the great necessity of obtaining a large addition to our income, in order to maintain our present high standards of efficient work." This statement does not mean that the Institute is in debt, but that the surplus has been reduced by such an amount.

The first item in the report shows that the income for the year ending September 30, 1910, was \$579,197.97, while the outgo was \$589,915.54, making an excess of outgo over income of \$10,717.57. Taking into account income and gifts carried to credit of funds, etc., the accounts show a net reduction of surplus for the year of \$23,598.87. This deficit takes into consideration the gifts received during the year for general purposes.

Gifts and legacies received during the year amount to \$107,460.74, of which \$41,644.15 were available for general current expenses, and \$65,816.59 were donated for special purposes.

Among the more important gifts for special purposes were the following: For the Naval Architecture Department, \$8,000; for Sanitary Research Work, \$5,500; for Physico-Chemical Research Department, \$4,200; for Improvement Fund, \$7,000; for Seismological Research Fund, \$2,450; for "Whitney Fund," \$25,000; from estate of Charles Choate, \$7,149.54. Among the members of the Faculty who contributed materially are Professor A. A. Noyes, Professor F. J. More and Major John Bigelow, Jr.

One of the most striking features of the report is the fact that the Alumni this year gave \$40,644.15 for general current expenses in addition to \$2,000 contributed for special purposes. As pointed out by Mr. Thurber, this Alumni Fund terminated this year, but a new fund is at present being organized among the Alumni. During the five years of its existence the total of subscription received from this Alumni Fund amounted to \$206,665.15.

The Walker Memorial Fund now amounts, with accrued interest, to \$125,501.97. This fund also was raised among the Alumni for the building of a student social center in memory of President Walker, and is being held until a new site for the Institute shall be determined.

The Improvement Fund now aggregates \$18,057.72, of which \$7,357.72 was received during the past year.

On the balance sheet of Mr. Thurber's report the total investment assets are shown to be \$2,214,716.76. The educational plant, which includes lands, buildings and equipment, are nominally valued at \$1,703,036.33.

COMPETITION FOR TECH SHOW POSTERS

Instructions and Suggestions Will
Be Given at Meeting This
Afternoon.

LYRIC COMPETITION TOMORROW.

Competitors Have a Comparatively
Short Time in Which to
Complete Work.



Competitions for the poster of this year's Tech Show, "Frenzied French," starts this afternoon at 4:00 P. M., when a meeting of all who intend to draw posters will be held in the Show office, room "B," in the Union. As has been the custom, a prize of \$10 will be awarded for the best drawing submitted.

The size of the drawing is to be twenty by forty inches and will contain the words "Tech Show" and the title of the play. A space should be left at the bottom for the insertion of the date and place of performance. Two flat colors and black are allowed, the choice of the colors being left to the artist. Drawings which do not accord with these directions will not be considered. The poster should deal with the title of the play only, and further acquaintance with the contents of the book is therefore unnecessary.

Of the posters for the twelve Shows produced, five were drawn by students and the other seven by professionals. For the last five years, however, every detail of the Show has been the work of students. It would, therefore, be entirely inconsistent if the management is forced to call upon outside talent, especially when there is such an abundance of ability here at the Institute. It is hoped that every man who has, or thinks he has any ability in this line will feel, as he should, that it is his individual duty to make a try for that ten spot. In any event, every one who might possibly be interested should come around to the Show office this afternoon and hear what Publicity Manager H. L. Woehling has to say on the subject. Anyone who finds himself unable to attend should see or leave a note at the Cage for Mr. Woehling at the earliest possible opportunity, as the work should not be undertaken without the detailed instructions to be given this afternoon.

The lyric competition will be started tomorrow afternoon, when Stage Manager Schell will meet all those who expect to write lyrics in the

(Continued on Page 3.)

BOSTON COLLEGE AT GYM TOMORROW NIGHT

First Basketball Game Looks to
Be a Fast One.

CAPT. DUGGAN IS B. C.'s STAR.

Technology Team in Fine Condition
For Opening Game.

The game with Boston College promises to be a very close and exciting one tomorrow night. They always have a good team, but it seems to be better than usual this year. The men are all strong players and their team work is a feature of their game. Duggan, the center, is an old high school star and captain of his Freshman team at the college. He is a very fast man on the floor and a slippery man to cover. He is the best shot on the team and will need to be covered very closely all through the game. The rest of the team are not so noticeable through their individual efforts as the captain, but they are in the game every minute. The manager seems confident of victory, and promises to bring a large crowd of rooters with him to cheer the college players. This is Boston College's first game, as it is also Tech's, and their team will for that reason try to make a particularly good showing, for they have a long schedule ahead of them. The Second team game has been changed because of cancellation on the part of the Boston University management, and they will go against the fast five that represents the Alumni of the Winchester High, under the name of the Winchester Independents. This is a team that has played together for three years on the fast high school team, and after graduation they organized as an independent team. They had a fine record last year and should be able to make the Seconds hustle to get away with the game.

Johnston, the star center of the Varsity five, is playing a very fast game, and will have a good bunch of baskets to his credit at the end of the game. He is just the man to put up against Duggan, the crack college shot. The contest between two such clever shots should be interesting in the extreme.

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

MATHEMATICAL-PHYSICAL SOCIETY.

There was a meeting of the Mathematical-Physical Society in Room 20, Rogers Building, last night. Prof. Dr. Henry B. Phillips was the speaker, and his subject was "Moore's General Analysis." Light refreshments were served.

CALENDAR.

Tuesday.

- 1.30—Union Committee Meeting—Dean's Office.
- 4.00—Orchestra Rehearsal.
- 4.00—Glee Club Practice—Union.
- 4.15—Technique Board Meeting—Union.
- 4.15—Varsity Indoor Track Team—Gym.
- 4.15—1914 Indoor Track Team—Gym.
- 4.15—M. I. T. A. Meeting—Room A, Union.
- 7.30—E. E. Society Meeting—Union.
- 4.00—Tech Show Poster Meeting—Tech Show Room, Union.
- 8.00—Annual Gymnasium Exhibition and Meet—Gym.

THE TECH

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TUESDAY, DECEMBER 20, 1910.

The annual report of the Treasurer of the Institute shows a most encouraging condition from one point of view. The Alumni, members of the Faculty and others who have reason to be interested in the welfare of the Institute contribute each year largely toward its financial success. During the past five years the Alumni have contributed toward general expenses \$206,665.15. They have raised the Walker Memorial Fund of \$125,501.97 to be used for the building of a student social centre, they have raised \$7,357.72 for an Improvement Fund, they have made the present Tech Union possible, and from time to time have contributed generously for other special purposes. Members of the Faculty have also been generous in furnishing the financial means for certain improvements in the various departments. This is the most certain sign of our strength as an educational power, the support and interest shown in the welfare of the Institute by those at any time connected therewith.

1914 TRACK TEAM PRACTICE REGULAR

Candidates Showing Up Well in the Majority of Events.

The Freshman track team practice has brought out many valuable men in the various events, and all the candidates are working hard, although very few shot-putters, hurdlers and pole vaulters have reported.

The team to represent the class will be picked from those who show up well in the Freshman track meet, which will probably be held January 7, so any one intending to enter should not delay in reporting at once. A good schedule will be arranged for the team, and their first taste of competition will be in the meet against the Sophs, February 4. A meet will probably be arranged with the strong Boston English High School team.

GOOD PROGRESS IN WRESTLING

Candidates Taking a Keen Interest in Work—Outlook Very Promising.

About ten days ago The Tech published a short article which mentioned the growing interest in wrestling at the Institute. The men interested were urged to come out and a meeting was called for the election of a captain and manager. Owing to a serious illness in Coach Mathers' family and his subsequent inability to be present at the initial practice of the wrestling squad, no formal meeting was held. It has been decided to postpone the election until the coach is able to attend.

At the present time twelve men have signified their intention of taking up the sport, while about ten more are interested, who at present find it impossible to come out regularly. The following men are reporting to the gymnasium at least twice a week for wrestling practice:

	Lbs.
A. K. Adams	183
A. G. Herreshoff	175
E. S. Shurtleff	167
S. H. Hodgeman	165
D. J. Guy	164
P. W. MacNeill	164
R. H. North	160
F. H. Busby	141
R. B. Kennard	141
R. Smythe-Martin	138
A. H. Means	125

There are many men at Tech who would like to come out for wrestling and learn something about it who refrain from doing so because they have never had any coaching or experience. In this they are making a great mistake because a careful canvass of the present candidates have revealed the fact that not one of them has ever had any previous coaching.

The cover for the mats which is now in use is a great advantage, as it enables the men to wrestle stripped to the waist without risking the loss of a few square inches of skin at each bout.

Great credit is due A. G. Herreshoff for his untiring efforts in developing the present interest in wrestling. There is plenty of good material and many exciting future contests may be looked forward to.

Tonight, at 8 P. M., the annual novice Gym meet will be held in the gymnasium. Wrestling bouts will be held for all classes. The men who contemplate entering should sign the entry book in the Gym, not neglecting to give their weight.

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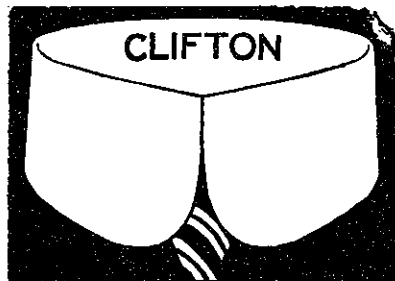
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Be careful to give us his name and address and your name and address correctly. State also whether you like a fine, medium or coarse pen; otherwise, we shall send an assortment that you can purchase from at \$2.50.

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THE RELIABLE REPEATERS

(Continued from Page 1.)
 About 1900 he was given the position of chief engineer in building railroads in South America. From this position he advanced to better ones, until he became the first assistant to the chief engineer on the Panama Canal, and had charge of the Culebra division.

Mr. Rourke is a man who is always looking for improvements in the executive management of engineering undertakings. This is clearly shown in his reorganization of seven departments on the canal into three departments, and putting men of wide experience in charge of each department. When Mr. Rourke came to Boston last year he combined the engineering departments into the "Department of Public Works."

It is not very often that Mr. Rourke has the time to speak before non-professional societies. Therefore everyone should attend the meeting to show Mr. Rourke that we appreciate his kindness in addressing the club.

The meeting of the club will start with a supper in the upper dining room in the Union, at 6 P. M. Following the supper Mr. Rourke will address the club, and then a business meeting will be held. The dance committee will make a preliminary report, and will probably announce the date of the dance. The meeting will end about 8 P. M., and give the members who live out of town the opportunity to leave early.

(Continued from Page 1.)
 Show office. The lyric competition will close at 4 P. M. on January 3, and it is therefore evident that all those who expect to enter it should meet Manager Schell tomorrow afternoon and get started immediately.

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CIVIL ENGINEERS WILL HAVE LECTURE

Mr. F. C. Pillsbury Will Speak
 On Road Construction and
 Maintenance.

This week, Wednesday, at 4.15 P. M., there will be a meeting of the Civil Engineering Society in Room 11, in Eng. B. F. C. Pillsbury of the Boston Division of the Massachusetts Highway Commission will be the speaker, and a most interesting lecture is promised. The topic to be discussed is: "The Principal Methods of Road Construction and Maintenance," and the various points will be illustrated by blackboard diagrams. Mr. Pillsbury will answer any and all questions which may be raised by the members.

The necessity of raising the standards and pay of the workmen employed in highway construction is a pressing one, because at the present time the public is asking for new high standards in roads.

The chief business of the society will be to elect a new vice-president. The samples of the new pin will be shown and passed upon.

Doors will be locked at 4.15.

C. E. SOCIETY PINS.

The sample of the Civil Engineering Society pin has arrived, and the whole order is expected to be here by Thursday. Ninety-seven orders for pins were received and the committee ordered an even hundred. The pin is of a very pretty design, and the committee expects that after the men have seen them they will have to order a second lot.

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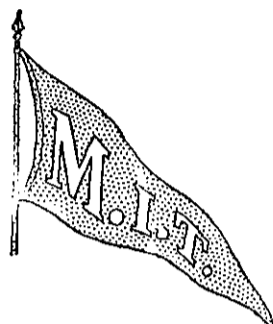
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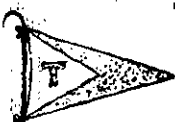
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LOST—Fountain Pen, in vicinity of Union. Finder please leave at Cage for G. W. Harding, 1914.

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.

NOTICE.
 Dr. William H. Nichols, President of the General Chemical Company, will speak in Room 23, Walker, Tuesday, December 20th, at 4.15, on the topic, "Some Chemical Engineering Problems of the Past and the Future." All who are interested are invited, and a full attendance is requested.
 H. P. TALBOT.
 December 17, 1910.

NOTICE.
 A meeting of those who expect to write Lyrics for this year's Tech Show will be held in the Show office, Room B, Union, Wednesday afternoon at 4 o'clock. (64-2t)

163 HUNTINGTON AVE. SUITE TWO—2, 3 and 5 room furnished suites, also side room and one room at \$1.50 per week. (64-7t)

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.


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