

THE TECH

VOL. XXX. NO. 61

BOSTON, MASS., FRIDAY, DECEMBER 16, 1910

PRICE TWO CENTS

COLONEL ROOSEVELT ON "APPLIED ETHICS."

He Mentions Pinchot, Garfield, Hay and Carnegie as Illustrious.

RECEIVES GREAT OVATION.

Favors Fortification of Panama Canal and Strong Navy.

Colonel Roosevelt spoke at Harvard last night before a crowded house, composed of students and members of the Faculty. His topic was "Applied Ethics." He praised the men who are building the Panama Canal, and said that the nation deserves great credit for performing such a vast undertaking which will last for centuries. He also praised the men who have devoted their time and energy to conservation, particularly Messrs. Pinchot and Garfield.

The Colonel said that it was very easy to establish the Hague court, but the men who used their influence to have it used are deserving of great praise. He spoke of Secretary Hay succeeding in bringing Mexico and the United States to submit to the judgment of the court a claim involving both nations. He praised Mr. Carnegie's notable gift to further the progress of peace. He closed his speech with the words, "Peace must come if it is to be of the slightest good as the child of justice, and not of weakness, a fact that should be remembered by the foolish and shortsighted people who object to the fortifying of the Panama Canal, and to building up of the United States navy."

CANADIANS WANT LOWER TARIFF

1000 Canadian Farmers in Council to Demand Reciprocity With United States.

One thousand prosperous Canadian farmers met yesterday to formulate demands on the Dominion Government. The initial demand is for the abolition of custom duties on agricultural implements and for better commercial relations with the United States. The delegates from Ontario are in favor of reciprocity with the United States. The Canadian Prime Minister, Sir Wilfred Laurier, will reply to the farmers and will probably point out that negotiations are now going on between Canada and the United States which will result in relief on some of the lines demanded. In the past year discontent has been increasing in Canada in regard to the tariff. This is shown by the circulation of statements showing the duties, and such a council is now being held.

ELECTRICALS MEET NEXT TUESDAY

Henry A. Morss of Cambridge Will Address Society On Wire Manufacture.

The next meeting of the Electric Engineering Society will be held Tuesday, December 20th, at 7.30 P. M. The entertainment committee has arranged to have Mr. Henry A. Morss speak on the subject of "Wire Manufacture." Mr. Morss is vice-president of the Simplex Electrical Company of Cambridge, which is a large company manufacturing wire. He was recommended by Professor Jackson as an authority on the subject. The lecture will be given with stereopticon views in the small room in the Union, and will illustrate the various processes

(Continued from Page 3.)

WINTER CONCERT AT COPLEY HALL TONIGHT

Program For Big Concert of Musical Clubs at Institute Announced.

ORCHESTRA WILL PARTICIPATE.

Dance Will Follow Rendering of the Musical Numbers—Many Seats Sold.

This evening, at 8 o'clock sharp, the Combined Musical Clubs, assisted by the Technology Orchestra, will give their annual mid-winter concert and dance. The reception committee has had the hall decorated prettily with Technology colors and festooned with the appropriate Christmas green. The program consists of the following pieces:

- Raymond Overture,
Technology Orchestra.
1. Sweetheart, Sigh No More.
Glee Club.
 2. Madam Sherry (Selections)
Mandolin Club.
 3. Wanted—a Wife,
Vocal Quartette.
 4. The Chocolate Soldier,
Technology Orchestra.
 5. Normandie March,
Banjo Quintette.
 6. Absent,
Glee Club.
 7. Charme D'Armour,
Mandolin Club.
 8. Dear Old M. I. T.,
Glee and Mandolin Clubs.

After the close of the concert dancing will be indulged in and will continue till 12 o'clock, and not after, as has been supposed and printed in yesterday's edition. Poole's Orchestra will furnish the music for the dancing.

All members of the clubs are asked to be at the hall at 7.30 o'clock.

This is the first appearance of the Tech Orchestra in public. Since the interest among the musical men has been so great and earnest, their final production is looked forward to with great anticipation.

The fame of the Combined Musical Clubs has already been established by their fine concert held in Auburndale this week. With such a bright prospect for good music the affair is looked forward to with great interest.

MOVING PICTURES IN HUNTINGTON HALL

Latest Invention in Colored Pictures to Be Demonstrated Tonight.

This evening, at 8 P. M., in Huntington Hall, there will be a demonstration of moving pictures in the colors of nature, and a general invitation to the public has been extended. This demonstration will be given by Gilbert H. Aymar of the Kinemacolor Company, and is held under the auspices of the Appalachian Mountain Club.

These pictures are not the hand-colored type ordinarily seen around town in the cheap moving picture houses, nor are they made in the manner in which the "Lumiere" color photographs are made. The secret of this new form of colored moving pictures lies partly in the interposition between the film and the screen on which the image is thrown of a rapidly revolving disc of colored gelatine. The primary colors are all present on this disc. The Kinemacolor process involves the taking of the picture first through a red film which gives everything of a red tint or any allied color, and next a picture is taken through a green filament which gives the green exposure, and so on through

(Continued on page 3)

SENIOR PLUMBERS MAKE TOUR OF INSPECTION

Sewage Plant at Pawtucket and Filter Beds at Providence and Warren Seen.

TRIP LASTED ALL DAY.

Difference Between Slow Sand and Mechanical Filters Investigated.

Twenty-three members of the Senior class in Sanitary Engineering took the second inspection trip of the year yesterday. Mr. Gilbert was in charge of the excursion, which embraced an investigation of the sewage disposal plant at Pawtucket, the slow and filtration water plant at Providence, and the mechanical filters of the water system of Warren and Bristol.

At Providence the plumbers were met by Mr. G. H. Pratt, 1897, chemist of the Rhode Island State Board of Health, and Mr. Carpenter, the city engineer, and were conducted to the disposal beds which are located on one of the tributaries of the Blackstone River. Here in the grit chamber is located one of the most efficient strainers that has ever been installed. One thousand pounds of solids are taken out of every million gallons of sewage. After passing through the screen the sewage is led to a settling basin and is then delivered to the sand filters.

After the inspection here the men took the car to Providence, where they were treated to a most excellent lunch at Worth's by Mrs. Richards of the Department of Sanitary Chemistry.

Lunch over, the crowd went out to see the slow sand filters and the pumping plant of the Providence water supply system. Here the men were guided by Mr. Cady, 1901, and one of the men from the office of the company. First an investigation of the pumping plant was made, and then the regulators and the filters themselves were seen. These filters consist of three feet of sand over one foot of gravel, the chambers being covered by a concrete roof, on which earth has been placed.

The water from the river passes through screens and is then delivered to the filter beds, from which undermains carry it to the mains and the pump. These beds are cleaned about once a month by scraping off about an inch of sand from the top. This sand is then cleaned and may be used again. No renewals are made, however, until about a foot of sand has been taken from the filter. The filters run continuously unless they are being cleaned, and each one can take care of three million gallons of water per day. About thirty per cent. of the color is taken out of the water, and between ninety and ninety-eight of the bacteria are caught.

The men then went back to Providence and took the train for East Warren, where the mechanical filters used by the towns of Warren and Bristol were seen. Mr. Pratt and Mr. Tuttle took the men around and answered all their questions. The small size of the mechanical filters offered a strong contrast to the large extent of ground covered by the sand ones. The water is treated with soda ash and alum and is then thoroughly stirred before it reaches the coagulating basins. Here the sludge precipitate and the water is drawn off. Every eight hours these basins have to be cleaned. This is done by blowing air from the bottom of the tank to break up the coagulent mass, and then carrying this off by flushing with filtered water.

(Continued on Page 3)

TECH SHOW, 1911, ANNOUNCES COACH

Eugene Sanger, Well Known in New York and College Dramatic Circles, Chosen.

SHOW TO BE ANNOUNCED SOON.

Lyric and Poster Competition to Start as Soon as Book Is Picked.

Eugene Sanger has been selected from among the many men considered to coach Tech Shows, 1911. General Manager I. W. Wilson has been busy since last June trying to secure a coach who would fill Jim Francis' shoes. Wilson has every reason to congratulate himself on securing the services of a man with a reputation as excellent as Sanger's. He is, without doubt, the best man available to stage Tech Show, 1911. Mr. Daniel Frohman has for a number of years had Mr. Sanger's services in staging his many popular productions. The remarkable success that the Princeton Triangle Club has enjoyed for the past ten years has been due in a great measure to the man who is to coach this year's Tech Show.

Prominent among other college dramatic societies which Mr. Sanger has had charge we find the Columbia Club of New York, College of the City of New York Club, Barnard College Dramatic Club and the well-known "Jest and Song" Club at Union College, Schenectady. Further than this, however, Mr. Sanger has at one time or another been connected with a large number of theatrical clubs of note in the East. Among the best known of these clubs which have been under his direct supervision are: The Ethical Culture Society of New York, the "Wendell Phillips" and K. P. Club. Mr. Sanger has for a number of years been directly connected with several large dramatic schools and is director of the well known Stanhope-Wheatcroft Dramatic School, as well as director of the American Academy of Dramatic Arts in New York City.

With this excellent reputation behind him, Coach Sanger comes to take charge of Tech Show, 1911. With an enthusiastic student body and the earnest support of all behind him, there should be no reason whatever why Tech Show, 1911, should not at least reach the high standard set by previous Shows.

Mr. Sanger is now busy selecting the play for this year's production, and the management hopes to be able to announce the name within a day or two. As soon as the play has been definitely settled upon, the Lyric and Poster competition will be opened. It is hoped by the management that the students will respond immediately when the call is made so as to start the production on its journey as soon as is possible.

CALENDAR.

Friday.

- 4.15—Gym Team Practice—Gym.
- 5.00—Basketball Practice—Gym.
- 5.00—Aero Club Meeting—Union.
- 5.00—1914 Basketball Practice—Gym.
- 5.30—Hockey Practice—Arena.

Saturday.

- 2.15—1914 Indoor Track Team Practice—Gym.
- 2.30—Varsity Indoor Track Team Practice—Gym.

Monday.

- 4.00—Mandolin Club—Union.
- 4.00—1913 Cross-Country—Gym.
- 4.00—1914 Cross-Country—Gym.
- 5.00—Basketball Practice—Gym.
- 5.30—Hockey Practice—Arena.
- 5.00—1914 Basketball—Gym.

THE TECH

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FRIDAY, DECEMBER 16, 1910.

There are held in Huntington Hall every year a number of exceptionally valuable lectures under the auspices of the Society of Arts. These lectures are attended by comparatively few of the student body, partly because they are not widely advertised among the students, and partly because they are not given primarily for their benefit. The Society of Arts was established, however, as a department of the Institute by President Rogers in 1861, receiving its charter in that year. Although the society has a definite membership with yearly dues which entitle the member to reserved seat, any non-members who are interested are cordially invited to attend the lectures. In order to benefit the greatest number possible, no charge for admission is made. Of the lectures for December, Mr. Louis K. Rourke, the newly appointed Commissioner of Public Works of Boston, has already spoken on "The Scientific Administration of Public Works." Next Saturday, at 8 P. M., at an extra meeting, Professor Perret, the well-known expert on volcanic action, will tell of the eruptions of last Spring from a scientific standpoint. Next Tuesday, at 8 P. M., Professors Jaggar and Spofford will give their lecture on "The Costa Rica Earthquake of 1910." These lectures are open to students and will prove of especial interest to those taking geological courses.

COMMUNICATION.

Editor of The Tech:
 Dear Sir:—I read a note in your paper that at Brown the field stand was recently examined by the inspector of buildings. I think you might make a note that at Technology Field both the grandstand and the field stand have for years been examined, both in the Fall, before Field Day, and in the Spring, before the N. E. I. A. A. games, by the inspector of buildings of the town of Brookline.
 FRANK H. BRIGGS.

HOCKEY TEAM SQUAD WILL BE DIVIDED

Second Team to Be Started With Schedule of Its Own.

The hockey team candidates will be divided into two squads this afternoon and a second team formed. There are now enough men out to make a fast team certain, and it is hoped that more will come out and join the squad at once. The second team will play against the first team at every practice and will probably have some separate outside practice. This afternoon the whole squad will practise on the Charles River Basin, opposite Dartmouth street, at 3 o'clock; tomorrow afternoon at the Arena at 5.15 o'clock.

The second team will be a stepping stone to the first team. A schedule of games will be arranged with some of the fast Boston preparatory schools and other local organizations. This is the first attempt that has ever been made to run a second team, but with a large squad out it should be a success. The second team will strengthen the first by playing against it this winter, and next year will furnish men who have had experience in collegiate hockey to replace those who will graduate.

The team is to be under the direction of J. H. Scoville, 1911, who has been on the hockey squad for three years, and he promises to turn out an aggregation which will make a name for itself and push the first team hard.

The second team games will possibly be run with the first team games as double-headers, similarly to the arrangement of the basketball games.

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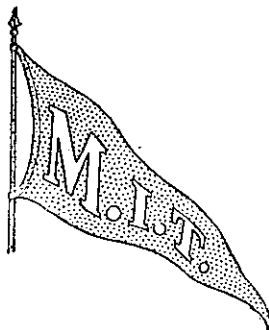
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(Continued from Page 1)
 the primary colors. In projecting the pictures and operating the machine fairly rapidly the eye mingles these colors, and this optical phenomenon gives colored moving pictures.
 Boston is being given a rare chance to see this wonderful invention, since these pictures have been shown only in Paris and New York since they first came out.

(Continued from Page 1)
 The trip was made under the guidance of Mr. Gilbert of the water analysis laboratory, and it was of particular interest to those men who went along. All the guides were most courteous and showed a genuine interest in Technology and her students.

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(Continued from Page 1)
 as carried out in the Cambridge plant. After the lecture the members will be served with light refreshments.
 The following day, Wednesday, the society will make a trip to the Simplex factory, and they expect to be furnished with a guide by Mr. Morss. The following of a lecture by a trip to the factory to see the workings described will surely be a very instructing innovation, and should create an extra amount of interest in the meeting. The members are signing for the trip very well and it is expected that a large number will go.
 This idea of having a lecture and following it by a trip to the actual place of application of the principles given in the lecture is an excellent one, and the policy should prove valuable, and might well be continued by the various societies. In particular should this be so in the Electrical Society, and for this meeting a good number should turn out.

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ATTENTION, 1914!
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H. R. RUSSELL, Manager.

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.

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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. (tf)

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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.
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Yours very truly,
MAURICE R. SCHARFF,
President's Assistant.
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