

# THE TECH

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## SOCIETY OF ARTS HEARS LECTURE

**"Improvements in Charles River Basin" Subject of Talk**

### BENEFITS DISCUSSED

**Sectional View of Dam and Works Shown by Excellent Lantern Slides**

"Improvements in the Charles River Basin," was the subject of an interesting talk by Chief Engineer Hiram A. Miller of the Charles River Basin Commission, to the members of the Society of Arts last evening, in Huntington Hall. The talk was illustrated by a number of excellent lantern slides, showing sectional views of the dam and the works.

Mr. Miller discussed the various engineering problems presented by the project and also the way in which they were met, and Secretary Youngerman told of the beneficial results expected from the undertaking.

The dam will be of vast size when completed, 500 feet from wall to wall carrying a roadway connecting the Charles River Boulevard and the boulevard on the Boston side of the river. The project is not unique, being similar to the Hamburg lagoon and the lagoon of the World's Fair at Chicago.

The dam is to have two locks, one on the Cambridge side for motor boats and small craft, and another on the Boston side for larger craft.

The dam will keep the water at constant level, thus avoiding the exposure of the mud flats.

The dam and embankments have been arranged to allow every chance for the enrichment of Boston's already magnificent park system. The basin will afford one of the best courses for crew races in the country, besides affording ample opportunity for canoeing and boating during the summer, and skating in winter, as soon as fresh water has replaced the salt.

## PROF. LELAND WRITES

**"Boiler Accessories" Added to Correspondence Course**

Prof. Walter S. Leland, of the Naval Architecture department, has published a textbook on "Boiler Accessories," which has been added to the home study series of the American School of Correspondence. The work takes up its subject from a practical point of view, giving well arranged descriptions of the various details of modern boiler room practice.

The subdivision of the subject treated include settings for boilers, furnace construction, draft, gauges, feed and blow-off apparatus, safety valves, piping, fittings and insulation. About 40 pages are devoted to the operation and care of boilers, and considerable information is presented concerning feed water and fuels.

## NAVY IS THE SUBJECT

"With the Fleet Around Cape Horn" was the subject of a most interesting talk by Mr. James B. Connolly, the well known writer of sea stories, to the members of the Technology Club last evening at the third smoke talk of the season.

Mr. Connolly was well qualified to speak on this subject as he accompanied the fleet on the trip around South America and his account of the varied experiences of the voyage, together with stories of the navy in general, was enjoyed by more than a hundred members and their friends.

## ELECTRICALS MEET TOMORROW NIGHT

**Louis A. Fergusson of the Chicago Edison Co., will be the Speaker**

### TRIP TO FORE RIVER

**Battleship North Dakota, and Ship Yards Visited at Last Excursion**

Tomorrow evening the Electrical Engineering Society will hold its December meeting at the Union. Dinner will be served at 6:30. Louis A. Fergusson 1888, vice president of the Chicago Edison Co., and president of the A. I. E. E., is the speaker of the evening.

This is the first of three dinners that are being arranged, as they were last year, through the efforts of Prof. D. C. Jackson, the financial part being taken care of by friends of the society whose names have not been given.

The Fore River ship yard was visited by the Electricals on their second excursion of the year. Through the courtesy of Rear Admiral Bowles, president of the Fore River Co., passes were obtained for groups of not more than thirty men to inspect the plant on Thursday, Friday and Saturday afternoon. A number of the students accepted the opportunity and spent a pleasant two hours in the machine shop, power house, molding and casting rooms, and among the hulls of small steamers and submarines. The "North Dakota" was unfortunately closed to visitors, but the 12,000 H. P. turbines for the vessel were seen in course of construction in the machine shop.

A third excursion is being arranged by the Program Committee, composed of H. S. Osborne, F. M. Loud and Capt. C. C. Carter, for three afternoons of next week. Announcement of this will be made at the next meeting.

## RECTIFIER TESTED

**Invention Satisfactory According to Test by Electricals**

The alternating current rectifier, invented by two Institute instructors, Harold G. Crane and Waldo V. Lyons of the Electrical Engineering department, is now being tested with the purpose of perfecting it for the market. The rectifier has been found satisfactory for such use as the charging of storage batteries, and its financial economy invention over the mercury arc machine, has already made it popular; several orders have been given in advance.

## STEAM TABLES REVISED

**Professor Berry Adds Many New and Valuable Chapters**

In bringing out the second edition of his "Temperature-Entropy Diagrams," Prof. Charles W. Berry has more than doubled its size. The revised work contains additional chapters on Mollier's total temperature-entropy diagram, thermodynamics of mixtures of gases and vapors, the gas engine indicator card, the multiple fluid of waste-heat engines, steam engine cylinder efficiency, liquefaction of gases, refrigerating processes and the warming engine. Considerable space is devoted to irreversible adiabatic changes and losses due to throttling and the design of steam nozzles. The book as it stands requires a good working knowledge of thermodynamics for its intelligent use, but contains material of such value as to make it welcome to all who have occasion to study the problems and conditions treated within its pages.

## TECH WILL HEAR PRES. MACLAURIN

**Future Head of Institute Will Address Students at Convocation**

### MAY DISCUSS POLICY

**Resignation as Physics Head at Columbia Accepted—Comes Here May 31st**

Technology students are soon to hear their new president speak. On Tuesday next, President-elect Maclaurin will address the Institute at a convocation in Huntington Hall. Whether this convocation will be held during the noon hour or at 4 o'clock, is not as yet certain. What will be the subject of Dr. Maclaurin's talk is not known.

In the evening of the same date a Corporation and Faculty dinner will be held in the Union to meet President Maclaurin.

This will be the first opportunity that Tech men will have had to hear the newly elected president, and it is certain that great interest will be manifested in his talk. It is very possible that Dr. Maclaurin will say something about his future policy in connection with the Institute, and in this case every Tech man will be vitally concerned. Moving the Institute has long been advocated. In an interview Dr. Maclaurin has said that he believes this possible and probable, and he may touch upon these plans.

Dr. Maclaurin has presented his resignation as professor of mathematical physics of Columbia University, and at a meeting on Dec. 17 the latter body accepted this resignation which will go into effect on May 31 next, at which time Prof. Maclaurin will enter upon his duties as president of the Institute.

## 1908 HOLDS REUNION

**Date Announced for Annual Dinner—Many Noted Speakers**

Mr. Frederick H. Fay 1893, was the speaker at the dinner of the class of 1908 last night at the Union. Mr. Fay spoke on the development of the Alumni Association since the very start.

The first indications of the organization of any form of alumni association began with the getting together of the graduates for the Walker and Rogers memorial exercises.

The next step was the establishing and publishing of the Technology Review by the Association of Class Secretaries which was later taken over by the Alumni Association.

The first grand all Technology reunion grew out of the announcing by the Technology Northwestern Alumni Association that the members were coming to Boston in a body. The subsequent development of the idea was to a great extent occasioned by the talk about the Harvard-Tech merger.

Feeling ran high over the matter and nearly 1600 former students, or forty per cent of the total number of graduates, attended the reunion.

During that year the Alumni body took over the management of the Tech night at the pops. One of the most impressive things about the reunion was the gathering of 1000 Tech men on the beach at Nantasket during the picnic.

At the banquet it was decided that the merger should not take place on account of pecuniary reasons and so the Alumni Income Fund was established. Another result of the reunion was the election of former Tech men to the Corporation so that at present a majority are graduates of the Institute.

On January 14 will be held the annual banquet of the Alumni Association. (Continued on page 3.)

## PLANS FOR HOCKEY SEASON ARRANGED

**All of Last Year Team Back With the Exception of Ford**

### MANY TRIPS ARRANGED

**Games with Harvard, Williams, Amherst and Dartmouth Scheduled**

Prospects for a successful season in hockey are exceptionally bright this year. Games have already been arranged with Harvard, Dartmouth, Williams, Amherst, Brae Burn and Andover and negotiations are going on for a game with Yale and some of the other large colleges.

All of last year's team are back with the exception of Capt. Ford, and a repetition of last year's successful season is looked for by Capt. "Bill" Kelly. A number of ex-college players of note from last year's college teams are reported to be willing to come out for the team.

A meeting will be held today and the team will be called out for the first time. All members of last year's team who are back have signified their intention of coming out, and with the exception of Ford's place, all the positions can be placed.

Billings will take his old position of goal, and Gould and Taylor will probably alternate as cover points, as they did last year. It is rumored, however, that a couple of men are down from Canada, so that there is liable to be some close competition for the goal and cover point positions, as well as that of point which Davis filled last season.

Manager William J. O'Hearn, Capt. W. J. Kelly, and H. W. Paine are the forwards back in the game.

The team this year will look to the student body for financial backing as the state of the money affairs of the Athletic Association will not permit of help from them to any great extent.

The team last year had an exceptionally successful season, defeating their opponents in every game during the winter, except that with Yale and the second game with Princeton, which was played by electric light, something which the Institute players were not accustomed to.

The schedule as arranged so far by Manager O'Hearn follows:—

Dec. 31—Dartmouth at Brae Burn.  
Jan. 6—Harvard at Harvard.  
Jan. 9—Crescent Hockey Club at Franklin Field.  
Jan. 16—Andover at Andover.  
Feb. 4—Williams at Williamstown.  
Feb. 6—Amherst at Amherst.  
Feb. 17—Brae Burn at Brae Burn.

## TECH CLUB HAS SMOKER

The Technology Club of Philadelphia will hold a smoker on Saturday evening, Dec. 12, at 8 o'clock, at the T Square Club, 1206 Chancellor street.

Mr. Ernest Harrah 1904, of the Midvale Steel Company will present the paper of the evening.

At the last meeting thirty members were present, representing classes all the way from 1875 to 1908.

## CALENDAR

WEDNESDAY, DEC. 9.

1:00 P. M.—Hockey candidates in 26 Rogers.

THURSDAY, DEC. 10.

1:00 P. M.—British Empire Association at Union.

4:15 P. M.—Candidates for orchestra in 44 Rogers.

5:30 P. M.—Dr. Mann's Bible Class in Union.