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M. I. T. A. A. ELECTS H. S. BENSON TRACK MANAGER

R. H. Allen Resigns From Presidency---F. A. Hurley Elected

Harvey L. Benson 1912, was yesterday elected manager of the track team, taking the place of P. H. Pearson 1911, who has left school. Max Waterman 1913, was elected assistant manager.

Benson has been actively interested in track work for the past two years. He has performed some very creditable long distance running, having been on both the cross-country team and the two-mile relay. Lately he has been doing much of the track manager's work and has shown up as being fully capable and worthy of the position.

Capt. "Ray" Allen of the track team and president of the M. I. T. A. A., resigned from the office of president of the association. Capt. Allen has been ill with scarlet fever, and now feels that he must limit the time he puts into student activities. He will remain captain of the track team, and will keep up his track work. He has already started light track practice.

The association elected F. A. Hurley 1910, to fill his place. Hurley has been a member of his class football, class baseball, and the varsity track teams. He has also been a member of the athletic association for several years.

1912 CLASS MEETING

This noon at 1.00 o'clock there will be a meeting of the class of 1912. The object is to consider the matter of the electoral committee for Technique 1912. As this is one of the most important things that the class has to do, it is hoped that a large number of the men will turn out.

HOCKEY TEAM ELECTIONS

R. H. Gould, Manager---H. D. Billings, Captain---Insignia

Harold D. Billings has been elected captain of the hockey team. Billings has been very prominent in athletics, both class and Institute, ever since he entered Tech. He played on both his class football and baseball teams for two years; he made the hockey team his first year and last year was manager as well as a player of the same.

At the meeting of the athletic association yesterday, R. H. Gould was elected manager of the hockey team. T. Polhemus was also recommended by this season's manager. Billings, as a candidate for the office, Gould has had more experience in the line of hockey than has Polhemus, however.

The following names of varsity hockey men who have played two-thirds of the scheduled games was handed to the association with the recommendation that those men be entitled to wear the insignia:—W. J. O'Hearn 1910, V. G. Sloan 1912, A. A. Gould 1910, R. H. Gould 1911, T. Polhemus 1911, H. D. Billings 1911, H. W. Stucklen 1911, and F. A. Hurley 1910.

After completing all arrangements for a wireless station to be operated by members of the Pennsylvania Wireless Club, at the Philadelphia Electrical Show, they were notified they would not be allowed to exhibit as another company had bought the exclusive rights for this purpose.

INTERESTING WORK ON COURSE IN THESE

Mining Engineers Are Now At Work On Metallurgical Problems

The work on theses is now well under way in all the courses. The mining engineers are carrying on research work on a number of different phases of mining. The following is a list of the work now being done.

Messrs. I. S. Arnold and R. L. Beales are to investigate a gold ore from the Santa Sofia mine in Mexico. This ore has already received some attention at the Institute but it seemed desirable to investigate it further with special reference to the application of the cyanide process to it after it has been crushed to slimes according to the present approved cyanide practice.

Mr. R. E. Anderson—a study of the chemical equilibrium of lead oxide, carbon monoxide and carbon dioxide at various temperatures. It is expected that the results obtained will throw light upon reactions that take place in a blast furnace smelting lead ores.

Mr. R. L. Bartlett spent the summer at zinc mines in Tennessee, studying the local geology and gathering samples which will be investigated in the laboratory during this 2nd term.

Messrs. R. A. Beckman and Y. T. Tsai, also Messrs. R. F. Goodwin and P. S. Hopkins are to make stamp mill runs upon a free milling Nova Scotia gold ore. One pair of students will use one set of adjustments of machines, for example coarse screen in the stamps, high capacity, regular amalgamated plate, etc., while the other pair will use different adjustments, such as fine screens, low capacity, Pierce patent amalgamator, instead of amalgamated plate, etc.

Mr. B. Bigelow and Mr. R. F. Burnett have a free milling gold ore from the eastern part of Nova Scotia which will be investigated by means of the stamp mill, amalgamated plate and Johnston Vanner, followed by treatment of part of the tailings by cyanide.

Mr. R. S. Breyer and Mr. C. C. Webb have an interesting problem in the shape of a lot of ore from the White Pine copper Company, Ontonagon County, Michigan. This contains native copper in commercial quantities but very finely disseminated through the rock; consequently it has been a hard nut for ore dressers to crack. Their plan is to give the material a carefully graded treatment to determine just what size will yield the copper free from the rock.

Mr. C. J. Briggs has a tin ore from New Ross, Nova Scotia. It is believed to contain about 1 per cent. tin and offers a field for interesting experiments to determine the best method of extracting the tin by mechanical concentration. It is rather unusual for a tin ore to come to the mining department.

Mr. H. N. Crichton and Mr. B. S. Wohlgenuth are to work in the blast furnace department making a study of pyritic smelting. During the past few years a considerable quantity of matte, pyrite and pyrrhotite, have been accumulated so as to make a blast furnace run. In an earlier attempt to use pyritic smelting in our laboratory success was not realized, owing to the lack of air supplied to the furnace. During the past summer the furnace has been rearranged and the tuyere area increased so that it is now hoped to have a successful run. Pyritic smelting in modern copper metallurgy avoids to a great extent the expensive preliminary roasting of the ore to partly eliminate the sulphur before it goes into the blast furnace, and also saves coke.

BARON KIKUCHI TELLS STUDENTS OF JAPAN

Assures Men Of Japan's Friendly Attitude---Explains Some Traits

At the convocation yesterday afternoon, Baron Kikuchi of the Japanese Imperial University addressed the students on Japan, trying to explain the Japanese spirit. President MacLaurin introduced the speaker, saying that Technology is an international institute and that Baron Kikuchi was especially welcome as a representative of the Japanese nation, which has shown itself a scientific nation.

Baron Kikuchi spoke at some length on the good feeling of Japan towards America, and said that there was historic reason for it. America has done much to open Japan to the world, and has been friendly and helpful in its attempts to rise. "The Japanese have, however, two things that Americans do not have," said the Baron, "loyalty to the Imperial House and veneration for their forefathers." These two things have a great influence on the Japanese attitude. The Japanese venerate their forefathers, and try themselves to give so that their posterity may venerate them. The relation of the Emperor to the people is almost that of a father to his children, for the dynasty is twenty-five hundred years old. The following Imperial edicts will illustrate this spirit. Through the kindness of Baron Kikuchi they are printed in full. (Continued on page 3.)

BASKET-BALL TONIGHT

Tech vs. Brown At The Gym--- And 1912 vs. 1913

A hot contest is scheduled for to-night at the Gym when the Tech basket-ball team meets Brown for the second time this season. The first game was played on Brown's own floor on January 15th and was won by Technology with a score of 16 to 14. Since then the Tech team has played five games, winning two and losing three. Brown has played several fast games, and the indications are that their team is better than before. A fast and hard-fought game is expected, and a crowd should turn out and support the team. Captain Parker has been working the men hard during the past week, and improving the teamwork. Practice games have been played with the second team three times a week.

The line-up of the Tech team will probably be Crocker and Bennis guards; Parker, center; Johnson and Hargraves (Darling), forwards.

The same evening the freshman and sophomore teams will play the second game of their series. The first game went to the freshmen 14 to 8. The freshmen have a fast team and all indications are in favor of their winning, but the sophomores will doubtless play a stubborn game to get their revenge. 1913 has also been more favorable with their outside games, winning from Newton High and pushing the Somerville High team hard to make them win. The line-up of the two teams will be:

1912	1913
Kendrick rf	lb Muther
Albee lf	rb Cahill
Mowry c	c Atwell
Freedman rb	lf Welch
Stone lb	rf McCarty (Murdoc)

TECHNOLOGY REVIEW FOR FIRST QUARTER

Last Number Contains Many Interesting Articles By Men Of Note

With the beginning of the new year the Technology Review published the first number of its twenty-second volume. The issue deals with the events of the last quarter, and contains some articles of scientific interest by prominent men.

The first article, "Phases of Architectural Education," by Mr. George B. Ford 1900, is an exposition of the advantages of the architectural course here at the Institute over the atelier system of the Beaux-Arts Society. The Institute, in Mr. Ford's opinion, gives a broader and more thorough training, and has a decided advantage in the way of permanent teachers.

A review of President MacLaurin's report to the corporation is given and an article on Professor Sedgwick's portrait, with a splendid tribute to Professor Sedgwick and to his work.

An interesting account of the work of the Aero Club by E. N. Pales 1911, and photographs of some of their flights should attract at least club members, and others as well.

Professor Winslow's promotion to the position of Associate Professor of Biology in the College of the City of New York and Curator of the Public Health in the American Museum of Natural History was announced, and a brief account of his life given. Professor Winslow was a Tech man, and graduated in Course VII in the class of 1898.

Professor Peabody briefly described the model which is to be used in Naval Architecture, and Treasurer Hart's report was given. The income of the Institute last year was \$545,000 and the expenses nearly \$576,000—a deficiency of almost \$30,000. The Institute has, however, no debt.

An account of the meeting of the Alumni Council in December, and the reports of the different committees were given. Other news of interest to the alumni is accounts of Tech clubs in different cities and the news from the different classes from 1868 to 1900, as well as the news from the different departments.

Of general interest, however, is President MacLaurin's address before the New England Association of Colleges and Preparatory Schools on "Science and Education." Dr. MacLaurin commented on the great advance of science during the last century and particularly on the applications of science. This growth of science had a profound influence on education. It is practically responsible for popular education, and has greatly changed higher education, which previously was classical only. Men like Spencer, Kingsley, and Huxley saw the value of the study of science for its practical use, and for its cultural value. The laboratory method of teaching also came into prominence. Another influence of science is in the aim of education. Science asks a man not what he knows, but what he can do. This is a fact which teachers should realize for "the foremost teachers of the foremost nations are the creators of the life to be."

CALENDAR.

8:00—Brown vs. Tech, Gym.
8:00—1912 vs. 1913, Gym.
8:15—Catholic Club, Union
1:00—1912 Class Meeting, Hunt. Hall.