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PRICE ONE CENT

PIERCE OF HARVARD GIVES TALK ON "WIRELESS"

Praises Work Of Wireless Society And Explains Actions Of Detectors

"Amateur interference in wireless telegraphy is a good thing in one way, as the more we have of it the quicker the inventors will originate some device to do away with it," said George W. Pierce, Professor of Physics in the Jefferson Physical Laboratory, Harvard, last evening to over two hundred students at the Friday evening entertainment at the Union. Professor Pierce gave considerable credit to the Technology Wireless Society for the work they are undertaking and the campaign being waged to stamp out needless interference among amateur operators. The history of wireless telegraphy was gone over and a simple explanation of oscillation currents traced. Many forms of crystal rectifiers for electric currents and electric oscillations were described. A valuable series of lantern slides was shown illustrating current voltage characteristic and thermo-electric effects for different crystals.

Prof. Pierce was introduced by Pres. E. B. Moore of the Wireless Society, before which the lecture was given. The thermo-electric theory of the crystal detectors was explained and the fact that it is groundless demonstrated. Numerous experiments, carried out by Prof. Pierce have proven conclusively the incorrectness of this theory. A number of experiments were described showing adverse facts.

The action of the electrolytic and other detectors was carefully gone into, illustrated by a number of remarkable slides showing the action of the rectified current passing through it. Prof. Pierce was very willing to answer all questions and the men improved this opportunity for further explanation.

FRESHMAN MEETING

Benson 1912 To Be Supervisor Of 1913 Track Team

At the meeting of the freshman class yesterday, nominations for managers of the teams were considered.

At the opening of the meeting the reports of the secretary and the treasurer were read. Treasurer H. L. Birchard's report showed a deficit of one hundred and six dollars in the class treasury. He urged those present to pay their class dues and to see that their fellow class-mates also paid. He remarked that out of the many dollars that each man pays out in year it is a very small thing for the class to ask of its members.

President Holmes requested that nominations for manager of the freshman track team be handed in at the Cage by 4 P. M. Monday. At the same time and place nominations for next year's football manager will also be due.

At the suggestion of Captain Burnham of the 1913 relay team, the class voted to appoint Harvey Benson 1912 as general supervisor of the proposed freshman track team. Benson is at the same time assistant manager of the varsity track team.

President Holmes reminded the men of the indoor interclass meet on Jan. 12. As this meet offers another opportunity for men to win their numerals he strongly urged a good representation from the freshman class.

INTERNATIONAL FEDERATION OF COLLEGE STUDENTS

Cosmopolitan Clubs Aim To Promote Friendly Relations Among The Nations

The third annual convention of the Association of Cosmopolitan Clubs was held at Ithaca, Dec. 22-24, under the auspices of the Executive Chapter at Cornell University. A description of the organization and purposes of these clubs has been obtained in an interview with Pres. Benj. F. Trueblood of the American Peace Society.

The movement leading to the organization of these clubs is a comparatively recent one, the first chapter being instituted at the University of Wisconsin about five years ago. Since that time interest has increased rapidly, until there are at present nineteen regular chapters and four others in process of organization.

Primarily the Association of Cosmopolitan Clubs stands for the promotion of friendship and friendly relations among young men of the different nations. This naturally leads to their identification with the movement toward international peace, and the National Association is now an auxiliary of the American Peace Society in a more or less nominal way.

Mr. L. P. Lochner, now holding a fellowship in Journalism at the University of Wisconsin, was one of the earliest promoters of the movement, and he has just been elected permanent secretary of the combined clubs. He is also to be the editor of what has heretofore been the Cosmopolitan Annual, but which is now to be published much oftener. This magazine is devoted to the development of the movement.

The basis of the organization of a Cosmopolitan Club at any of the various colleges of the country is the number of foreign students attending that college. Inasmuch as the object of the club is an international one, it has been considered wise to limit the number of American students who may become members, the custom being that they shall not exceed the number of foreign students.

Nearly all of the larger American colleges are now affiliated with the Association, there being chapters at the present time at the Universities of Wisconsin, Michigan, Illinois, Iowa, Missouri, Washington and Pennsylvania, at Cornell, Purdue, Ohio State, Chicago University, Leland Stanford, Iowa State, Harvard, Northwestern University, Oberlin College, Missouri School of Mines, Worcester Polytechnic Institute, and Syracuse; those in process of organization being at Columbia, Yale, Parke College, and Virginia.

Harvard has the largest Cosmopolitan Club at the present time, the membership there being nearly two hundred. This is, of course, due primarily to the large number of foreign students who attend that institution. Cornell follows with about one hundred and sixty members, of whom only a few more than half are foreign students. The average membership is between twenty and seventy or eighty.

About two years after the organization of the first club the National Association was formed to include all clubs desiring to be affiliated with it. At the Convention just held it was voted to include in the Association two European organizations similar in character to the Cosmopolitan Clubs in this country, the Italian Corda Fratres, and the French International Student Society, and accordingly the name of the

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HISTORY OF MECHANICAL ENGINEERING SOCIETY

Organized As Debating Club--- Now In Flourishing Condition

On the morning of the 30th of March 1881, a paper written by Mr. T. B. Carson 1882, appeared in The Tech proposing the organization of a debating society, of which all members of the school should be members. As a result of this article, a discussion started on the next day among the members of the Junior class in mechanical engineering as to the advisability of forming a society whose members should all be connected with the department.

A meeting of the department was accordingly held on the following Monday and the Sigma M. E. Society was organized. At the start, the meetings were held once a week, when various subjects were discussed and papers were read by the members. At various times prominent engineers were asked to address the society and some very interesting talks were given.

During the mid-year vacation in February, 1882, a trip was taken through western Massachusetts and Connecticut and a great many places of interest were visited. The next year a similar trip was taken to New York and Philadelphia. About twenty-five went on the trip which was very successful. For the next few years the society had various ups and downs. It has had several deaths, each one followed by a rebirth, until the fall of 1901, when it was entirely reorganized and since then has been steadily on the increase.

The society now holds meetings about twice a month at which experienced engineers address the members and give them ideas of how work is actually done in practice. This enables the students to get in closer touch with older men of their profession and gives them a better understanding of their own work. It is also planned to have meetings at which the members read papers, which they have prepared, or else discussions are held on various subjects connected with mechanical engineering; some of these meetings take the form of dinners, followed by the discussion or talk while others are of a more informal nature.

It is the idea of the society to develop the social side of the work as much as possible for it is just as important for a man to know his fellow men as to know his studies. The society offers one of the best opportunities that a man has for meeting the other men in his course.

Practical lessons are also gained from the trips which the society conducts during the year to places of interest nearby. This feature of the society has proved very popular.

An arrangement has just been completed which it is believed is an important step forward. This is the affiliation with American Society of Mechanical Engineers. This will give to the members many of the privileges of the national society. They will be allowed to attend its meetings and to take part in the discussions. The reports of the meeting of the local society will be published in the Journal of the A. S. M. E., which the members can obtain at greatly reduced rates. This will bring the work of the society before the engineering world and will enable the members to further the reputation of the Institute. Plans are also under way for some meetings at which members of the society will present papers.

The society at present numbers about one hundred and fifty, is in a very prosperous condition and fills an important place in the social life of the Institute.

TWO GOOD BASKET-BALL CONTESTS AT GYM TONIGHT

Varsity Five vs. Lowell Textile ---Freshmen And Sophomores Also Clash

The gymnasium will be the scene of two Basket Ball contests tonight. The regular varsity five will clash with the Lowell Textile School team, while between the halves the first game of the annual series between the Freshmen and the Sophomore teams is to be played.

Capt. Parker is very hopeful of winning, although the Lowell Textile team is very fast. The Tech five is crippled in the loss of Avery, who injured his finger in the game with Tufts, so that he will be unable to play. The team will be composed of Hargraves and Johnson, forwards; Parker, center, and Crocker and Bennis, backs.

A comparison of the Sophomore and Freshman teams is rather difficult. 1912 has played only one practice game this season, they having defeated Boston College. 1913 has played two regular games, defeating Newton High 23-17, and losing to Winchester High 23-34.

The sophomores have a veteran team, with the exception of F. L. Mowry, the center, but the freshmen have several former high school cracks. The lineup for the game is as follows:

1912	1913
Kendrick, f	f, Thompson, Welch
Albee, f	f Cahill, McCarthy
Mowry, c	c, Elwell
Freedman, b	b, Muther
Stone, b	b, Capen

FAST GAME EXPECTED

Hockey Team Meets Brae-Burn This Afternoon

The Hockey Team meets the strong Brae-Burn team at Brae-Burn this afternoon at 3.00. Things look favorable for the Tech aggregation, the only weak position being at goal.

By way of comparison of the two teams, the fact that Harvard won from Brae-Burn with a score of 7-1 and from Tech by only 4-1 would seem to give Tech a slight advantage. On the other hand, Dartmouth was beaten by Brae Burn by a larger score than by M. I. T., which would tend to even up the advantage.

At any rate, there is no question but that the game this afternoon will be a good one, and that both teams will have to do their best.

The Tech line up will be as follows: O'Leary, Sloane, Stuecken or Payne, and R. Gould, forwards; A. Gould or Eichorn, cover point; Billings, point, and Pohlenus or Hurley, goal.

The sophomore class of Harvard is planning a series of four dinners to each of which one-fourth of the class will be invited. In this way each member of the large class will be able to attend one such dinner, and none can feel hurt at being excluded.

CALENDAR.

Saturday, Jan. 8.

2:30 Hockey: Tech vs. Brae-Burn at Brae-Burn.

7:30 Aero Club Meeting, Union.

8:00 Basket Ball: Tech vs. Lowell Textile; 1912 vs. 1913 at Gym.

Monday, Jan. 10.

4:15 Gym Team Practise at Gym.