

HARVARD ENTERTAINS

Electrical and Radio Men Attend Lecture in Croft Laboratory

Last Thursday evening over one hundred members of Electrical and Wireless societies journeyed to the Croft Radio Laboratory of Harvard and there heard a lecture by Professor G. W. Pierce of the University. At the close of the meeting there were many comments made upon the large variety of instruments which the laboratory contains, and the officers of the two societies are well pleased with the outcome of the evening.

Professor Pierce, who was ably assisted by three instructors, performed a number of interesting and enlightening experiments. The first of these was an illustration of the Herzian apparatus. The transmitter was nothing more than a spark coil and gap, this gap being at the focus of a parabolic reflector. The receptor was of similar construction except that a coherer took place of the gap. Thus the bell of the coherer rang every time the transmitter was operated. Professor Pierce then varied the experiment by interposing various materials between transmitter and receptor. He thus showed that metals were opaque to the waves and that glass, wood, etc. allowed them to pass. Other variations such as reflection of waves, and the twisting of waves through an angle of 90 degrees were successfully performed.

The second experiment illustrated the very different nature of high frequency currents. A large, conical coil of the Ondin type, having a primary of a few turns of heavy ribbon, and a secondary of many turns of fine wire, was connected through condensers and a quenched gap to a 2 1-2 K.W. type-E transformer. When this big coil was operated a beautiful tree of sparks shot towards the ceiling, and the roar of this discharge was deafening. Large vacuum tubes in the hands of an assistant standing nearby were brilliantly lighted up, and a metal "pin-wheel" placed on the top revolved with trains of sparks coming from each point.

The Poulsen arc transmitter for continuous waves was operated in connection with a large Tesla coil. Assistants standing near but not touching the two terminal plates of this apparatus drew sparks from one another, lighted lamps, and melted pieces of iron wire without any danger whatsoever. In connection with this apparatus was also shown the principle of the induction furnace, in use commercially today.

A very striking and beautiful experiment was performed by one of the assistants. Dr. Pierce had explained the oscillation of the modern regenerative audion circuit, and showed that by a key-board connected to resistances, the audion could be made to produce musical notes, which, he said, were wave vibrations. This was demonstrated most successfully by the apparatus described.

Dr. Pierce's last experiment was with a selenium cell. It is well known that selenium, when exposed to light, becomes a good conductor. A figure in the shape of an owl containing a small selenium cell was connected to apparatus such as to produce both sound and light. Dr. Pierce then manned the gun which projected a beam of light at the owl. When the trigger was pulled a buzzer sounded.

In closing, Dr. Pierce told what great strides had been made in the art of radio telegraphy, giving many striking examples, and especially that of submarine wireless.

SOPHOMORES ATTEND EVENING CLASS IN MILITARY SCIENCE

A novel feature was introduced in the Military Science program in the use of moving pictures for instructing the Sophomore section of the R. O. T. C. Thursday night the first of a series of films demonstrating the operation of heavy artillery was shown at Walker Memorial under the supervision of Lieut.-Colonel F. M. Greene. C. A. C. Over 300 members of the class were present as well as a number of men from other classes. Five films shown, the first two showing the training of officers at Fortress Monroe. The next film showed pictures of French artillery in action. A number of types of guns including light field pieces, howitzers, mortars and twelve inch railroad guns were shown in action on the western and Bulgarian fronts. The last two films were taken in the United States before the war. These films showed the range-finding apparatus and fire control of coast defense batteries.

From all indications the audience enjoyed the evening from the moment a lone sentry stalked into view at the beginning of the first film till the playing of colors and the fringing of the sunset gun at the end of the last.

Smoking was allowed and in the absence of a pianist detached bits of vocal music and occasional instructive comment from the various wits received much applause.

PROF. SEDGWICK TO TEACH AT U. OF C. AT BERKELEY, CAL.

Professor W. T. Sedgwick of the Massachusetts Institute of Technology and the Harvard-Technology School of Public Health, is leaving Boston on May 1 for California, where he is to give instruction in "Sanitary Science and Public Health" and in "Public Health Problems" during the summer session of the University at Berkeley. Professor Sedgwick has recently been elected to membership in the International Health Board of the Rockefeller Foundation, and also appointed Directing Sanitary Engineer with the grade of Assistant Surgeon-General in the reserve of the United States Public Health Service.

1922 BASEBALL SCHEDULE NOW PARTIALLY COMPLETED

Need Of Coach Felt, Desire Member Of Faculty For Position

At the first practice of the 1922 baseball team Tuesday about fifty promising candidates appeared and displayed great form for so early in the season. As a result of elections held earlier in the week, Holland Russell Smith of Galt, Canada was elected to pilot the freshman aggregation. Smith came to Technology from Worcester Academy, where he was one of the mainstays in the box for their successful team. Donald E. Walch of Providence R. I., was elected manager at the same time. Manager Walch immediately got in communication with several of the leading preparatory and high school teams in the vicinity to arrange a schedule. The freshmen's first appearance will be against Winthrop High School on Tuesday. Arrangements are under way for games with Andover, Exeter, Harvard 1922, Worcester Academy, and other teams nearby.

The greatest problem facing the freshman team at present is the need of a coach. The organization of the team came so late in the season that it was practically impossible to secure a coach. It is the desire of the manager that some member of the faculty who is interested in "the American game" volunteer his services in this capacity. Practice is held between 4.00 and 6.00 P. M. every yday on the parade grounds.

LINE-UP AND BATTLE ORDER FOR THE TECHNIQUER BASEBALL TEAM (?)

A line-up of the Sneaker-Crew that plays baseball (?) has been respectively submitted to THE TECH for running. It runs below:

1. Jack Coyle, ss. short slob
2. Ken Akers, 3b. 3rd keg
3. Bob Pender, 2b. 2nd keg
4. Nobs Abbot, c. careless, cootiechaser
5. Buzz Burroughs, 1b. 1st keg
6. Bud Cofren, rf. right flop, right fool
7. Ken Roman, cf. center flea
8. Ev Freeman, lf

left flop, let fly, lost fool
9. Ed Clark, p. pitiful, "itch"
Substitutes, Slobingstudes, Scrubstidupes, Nusbaum, Dean, Quiros, and Awful.

Don't fail to see the marvelous Techniquer battery in action, Itcher and Scratcher, pitch and catch. The feature of the game will be the phenomenal work by the noted Bum-pire (Bart Casey), and the marvelous defense of Tanglefoot Burt, Official Custodian of the Keg.

In answer to Technique's challenge, Jack Coyle (?), our sport editor writes:

Your little gust of heated air has made us smile. Wherein you expect to gain any satisfaction through a baseball game with us, we fail to see. Are you aware that THE TECH Baseball Team has never made an error? Of course, you are not—the fact that you challenged us is proof of that. Our sense or fair play would not allow us to administer to you the severe drubbing that is your lot, had you not assailed our honor by the mere suggestion that we might use unfair means to defeat you. You have by this insinuation brought disaster to your head. "Discretion is the better part of valor." We offer you ample opportunity to withdraw from the contest. However, if your stock of wisdom is not great enough to lead you aright in this matter, we shall be on hand at the appointed time to care for our honor.

Kindly remember that we also have spies in your midst, and that we have on our own files the names of all those that constitute the Technique Board of 1920. Yours with the greatest pity, (Signed)

J. H. COYLE, Sporting Editor, THE TECH, Volume 39.

CONCERT AT SIMMONS COLLEGE

The Musical Clubs will hold a concert-Saturday night at Simmons College: the time of the concert has been set for 7.45 so as to allow plenty of time afterward for dancing. The concert at Framingham Normal School has been cancelled, but there will be a concert at Lynn Educational Society April 21. There is an unconfirmed rumor about that the musical clubs will go to Camp Devens to give a concert to the men of the 26th Division.

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