LECTURE ON WIRELESS TELEPHONY AT HARVARD

Dr. E. L. Chaffee Addresses New England Society on His System.

Only a few decades ago the whole world was awed by an invention which enabled two persons to talk with one another when they were separated by a distance of several miles and connected by merely two thin threads of metal. In the present decade an invention is being perfected which enables the same conversation to be carried on with even the two wires eliminated and, wonderful as this invention is, the world at large knows little of it.

The members of the New England Wireless Society were treated Saturday evening in hearing of the very latest developments of this science from the lips of one of the inventors. The occasion was that of a reception meeting for a scientific lecture in the Jefferson Physical Laboratory at Harvard. The speaker was Dr. E. L. Chaffee of Harvard addressed the members on the subject of his system of wireless telephony and was perfectly in sympathy with Dr. Pierce of Harvard.

The distinguishing feature of his system is the arc he employs to produce continuous trains of electromagnetic waves. This spark gap, as Dr. Chaffee prefers to call it, is an air-cooled affair, and is known as a rectifying gap, that is, it allows the passage of the discharge of the condenser to take place in one direction only and gives a series of properly timed negative and positive waves, as if it were the primary oscillating circuit. Its positive and negative terminals are connected to aluminum and magnesium respectively, and it operates in an atmosphere of hydrogen.

The rectifying action is supposed to be due to an electrolytic action of the discharge, in which a film of aluminum oxide is alternately formed and reduced. This action is somewhat analogous to the action of the vacuum rectifier for alternating currents. Dr. Chaffee stated that he devised this gap, while attempting to determine experimentally the velocity of cathode rays by observing the arc, after he found the fully developed arc showed how the correct scientific investigation often leads to discoveries important in other fields where it was the aim to approach to perceive them.

A peculiar feature of this gap is the (Continued on Page 3.)

GLEE CLUB.

The Glee Club has experienced quite a shake-up since the beginning of the second term. The advent of Tech Show rehearsals has taken its toll from some of its best workers, who are also members of the orchestra. However, at least the club is present in a somewhat depleted condition. The club is going to build up again this week by recruiting several new and interesting members. The club has a new list of candidates, which it will be able to choose from at its next rehearsal in the Union this week.

B. G. Dorenman, Manager .

SUCCESSFUL CAREER OF HENRY W. HOOLE

Technology Graduate Attains Unusual Prominence as Efficiency Expert.

On Thursday, February 20, one of the most promising young engineers that the Institute has ever produced was lost to the world through the death of Mr. Henry W. Hoole, M. I. T., '08. Although he was less than thirty years of age he had been very successful in the practice of his profession, and all the men with whom he worked were surprised at the news of his death. The Institute in its bulletin of March 1, 1913, under the heading "In Memoriam," says: "Mr. Hoole was born in Lowell, Mass., in 1885, in very humble circumstances, and it is only through his own conscientious efforts and moral courage that he was able to get any thing better than a common school education. While a student at the Institute he was frequently in conflict with Dr. Pierce of Harvard.

The occasion was that of a lecture delivered in the Jefferson Physical Laboratory at Harvard. The lecture was given by Dr. Chaffee, and was on the subject of his system of wireless telephony. The lecture was very instructive and entertaining.

FRESHMEN BASEBALL

Schedule Not Completed — Practice for Battery Men Soon.

Prospects for a strong freshman baseball team are bright. There is quite an amount of enthusiasm among the boys who have expressed a desire to play. A little working out will show up in good form before the season is very far advanced. The team will be composed of at least some of the pitcher that ought to make the other members of the class come for the win. The freshmen will carry on the interclass games.

Manager Woolley has already set to work on the grounds and the instruments. The Allen School are under advertise ment. Games with Rock Ridge, King, High, Roxbury High, Shrewsbury High and Brighton High will probably be on the schedule soon.

The team will start practice within a short time, as soon as the ground is in fair condition. The battery men will start work a little earlier, probably in about two weeks.

ELECTRICAL SOCIETY.

F. H. Achard has been appointed chairman of the Executive Committee of the Electrical Engineering Society for the ensuing term. The society has also met for the purpose of discussing the matters left over from last meeting, and it will be held in the board room in the Electrical Engineering Building. The next meeting will be held in contact with the events of the society.

FRESHMEN TRACK TEAM TO MEET MEDFORD HIGH

Will Enter the Entire Squad in the Meet — Inter-Class Meet Saturday.

No trials will be held for the freshmen track team to determine the entrants for the meet with Medford High School this week. Arrangements are now being made to select the entire freshmen squad to compete, as this will give all the men some experience, the lack of which was so noticeable in the meet with Lowell High. The meet will be held at 4 o'clock Wednesday afternoon, and all admission will be charged. All the men will need to hurry in the gym after drill in order to be on time to meet, as it will be necessary to start on time in order to finish before six.

The interclass meet will be held Saturday afternoon at 2:30, and the Sophomores are beginning to come out for practice, and will have a very strong team in the field. The freshmen had a very fast team, and will score strongly in the track events. The Sophomores will probably field their line of trained backs, and the field events, and Barry and Hale are the men to watch in that department. The freshmen have also a very fast team, and are assured of at least one first class sprint. There is quite a possibility that there will be a large amount of good material that, with a little working out, constitutes a will

CHESS TOURNAMENT.

Drawings For Match Announced — Meet With Harvard.

The preliminary round in the Chess Club Tourney, which is now being played, will close March 5. The entries charge have drawn up the following rules to govern the tourney:

1. There is no limit to the number of tourney who may not have his second term's work completed.

2. Two out of three games played constitutes a win.

3. Moves must be chosen by lot, and an alternate color must be used each day.

4. Three out of five games played constitutes a win.

One week will be allowed for each round until the seminaries and finals are reached. The drawing for the matches are as follows:

P. H. Johnston and H. H. Newman, winner to play W. B. Merrill. The winner of the second half of the following groups is to play the winner of the first; the winner of the third, the winner of the fourth, etc. E. D. Whitcomb and D. C. Dunsmuir, C. J. C. Johnson, and C. L. O'Carroll, G. R. Norwood and J. A. Beales, A. H. Anderson and H. E. Blakeslee, H. E. Holman and M. Woodcock.

As was stated in the Saturday issue of THE TECH, there will be a match played with Harvard in the Union at 7:30, Saturday, March 8. The club has invited that interested in the match to be present.

SPANISH CLASS.

A statement was made in last Fri day's issue of the effect that an announcement was made that a new language word would be taught during the outdoor meetings of this class. This statement is wrong, and has no foundation whatsoever.

CALENDAR.

Tuesday, March 4, 1913. 4:30.—Final Selection ofChorus Union.

Wednesday, March 5, 1913. 4:30.—Meeting of Men Out for News and Editorial Departments of the TECH.

THE GLEE CLUB NOTICETOE THE MEMBERS.

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which had become traditional by their
will not be
have fallen by the wayside. This may
pressed
the Union, the sentiment which he ex-
President of 1913, that the Class Presi-
is no small feat. that has been drawn up to meet the
comes much better. Harvard's tea-
points, and decisions two points, as
Tech won one fall and three de-
permanent. It is necessary that the stu-
dents to reinstate the traditions that
fail, a fact which we sincerely hope
ning in Monday's issue of this week.
and the menmbers will then take up
of the author out of the dramatic pro-

We heartily agree with Mr. Mattson,
that this should be done by
any difference, but such methods
would certainly not have to be per-
several methods, more or less, if all others
fail, a fact which we sincerely hope
will not be the case, but such methods
would certainly not have to be per-

This gives Tech an unbroken string
of victories, and by this win over Union, and all men interested in Crew
setting on account of the fa.

The idea of time is a difficult one
and the men present it will be adopted
needs of the permanent organization.

If the Constitution meets the approval
such a novel to a stage

The fundamental principle of dra-
so suggestive in themselves that they

WRESTLING TEAM.

Recent Match With Harvard a

Upon more closely figuring the de-

Mr. Baker also explained how diff-

There will be an important meet-

BOAT CLUB MEETING.

Permanent Constitution to Be
Adopted Wednesday.

There will be an important meet-

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INTER-CLASS GAME.

1915 vs. 1916 in Second Basketball Game of Series.

The date of the second game of the series between the Sophomore and Freshman basketball teams has not been decided, but it is probable that the game will be held on Friday of this week.

The teams have been practicing hard during the past week, and may be expected to show much better form in this coming game than in the previous one. The faults of both teams were mainly in lack of team work, and with this improved they should furnish a better game. Friday, the Sophomore team met defeat at the hands of the Haskell squad, and this Freshmen were also defeated by the Cambridge team by the close score of 25 to 21.

The Freshmen will also play Saturday with the fast Quincy Y. A. team, even if the inter-class game is played on Friday.

EPISCOPALIANS MEET.

At 7:15 o'clock this evening the Brotherhood of St. Andrew will have a meeting at the Trinity House on St. James Avenue, and the regular discussion will be on the subject "The Rev. Mr. Van Etton will be the speaker." The members are also interested, especially Episcopalians, and would like to have men with a knowledge of the subject present to lead the discussions. The meeting will be at 7:15 o'clock.

WIRELESS LECTURE.

(Continued from Page 1.) The fact that the light emitted gives only a spectrum of pure hydrogen and does not show any of the characteristic spectral lines of the metals composing the electrodes, is one of the reasons why, in operation, and once adjusted, it requires no further attention for a considerable time, a distinct advantage.

During the lecture, the feature of his system and the great applications that are possible were explained to those present.

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