

# THE TECH

VOL. XXXII. NO. 101

BOSTON, MASS., TUESDAY, MARCH 4, 1913

PRICE TWO CENTS

## 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 fine 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 privileged last 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 regular meeting of the society held in the Jefferson Physical Laboratory at Harvard College, when Dr. E. L. Chaffee of Harvard addressed the members on the subject of his system of wireless telephony which he is perfecting with Dr. Pierce of Harvard.

The distinguishing feature of his system is the arc which 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 non-alternating impulses to the primary oscillating circuit. Its positive and negative terminals are copper and aluminum 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 on the aluminum electrode. This action is somewhat analogous to that of an aluminum rectifier for alternating currents.

Dr. Chaffee stated that he devised this gap while attempting to determine experimentally the velocity of cathod rays, a fact which shows how a certain scientific investigation often leads to discoveries important in other lines if the observer is keen enough to perceive them.

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

## GLEE CLUB.

The Glee Club has experienced quite a shaking up since the beginning of the second term. The advent of Tech Show rehearsals has taken from it some of its best warblers, who are also Show aspirants, and as a result the club at present is in a somewhat depleted condition. The club is going to build up again this week by refilling these vacancies, and so there is a big opportunity for men to make the club now, especially in the first bass and first tenor parts. The club is going to start afresh this week with a new lease of life and an interesting set of music. Any man can try out for the club by reporting with the club at its rehearsals in the Union this week

R. C. Doremus, 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 was associated while working for several large manufacturing concerns have nothing but praise for the intelligence and ability he showed throughout the whole of his short career.

Mr. Hoole was born in Lowell, Mass., in 1884, in very humble circumstances, and it is only through his own conscientious efforts and moral courage that he was able to get anything better than a common school education. While attending the Institute he supported himself by doing various kinds of work, most of which was with the Boston newspapers, where he was quite successful. After graduating with high honors he immediately entered the firm of Miller, Franklin & Stevenson, of New York, as an efficiency engineer. In three and a half years he left their employ to fill the position of general manager of the Hardwood Products' Association of Indianapolis, where he at-

## FRESHMAN BASEBALL.

Schedule Not Completed—Practice For Battery Men Soon.

Prospects for a strong Freshman nine are now in sight. There is quite an amount of enthusiasm among the 1916 men over the way things look, as there is a large amount of good material that, with a little working out, will show up in good form before the season is very far advanced. The team is assured of at least one first class pitcher that ought to make the other class teams come far from having a runaway in the inter-class games.

Manager Woolley has already set to work making out his schedule, and it is now partly completed. Games with Gloucester High, Thayer Academy and the Allen School are under consideration. Games with Rock Rindge, English High, Roxbury High and Brighton High will probably be on the schedule also.

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.

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## ELECTRICAL SOCIETY.

F. H. Achard has been appointed chairman of the Excursion Committee of the Electrical Engineering Society for the ensuing term. The society has also made a change in the custom of keeping its calendar, and hereafter it will be posted on the bulletin board in the Lowell Building. The reason for this change is to enable the professors as well as the students to keep in touch with the events of the society.

## FRESHMAN 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 Freshman track team to determine the entrants for the meet with Medford High School this week. Arrangements are under way to permit the entire Freshman squad to compete, as this will give all the men some experience, the lack of which was sadly noticeable in the meet with Lowell High.

The meet will be held at 4 o'clock Wednesday afternoon, and no admission will be charged. All the men will need to hurry to 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 inter-class 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 have also a very fast team, and will score strongly in the track events. The Sophomores will undoubtedly excel in the field events, and Barry and Curtis will prove difficult men to beat in the dashes, and Curtis should have no difficulty winning the hurdles.

## CHESS TOURNAMENT.

Drawings For Match Announced—Meet With Harvard

The preliminary round in the Chess Club Tournay, which is now being played, will close March 8. Those in charge have drawn up the following rules to govern the tournay:

1. No one is eligible to enter the tournay who has not paid his second term dues.
2. Two out of three games played constitute a win.
3. Moves must be chosen by lot, and an alternate color must be used each game, whether it is a win or draw.
4. One week will be allowed for each round until the semi-finals and finals are reached.

The drawings for the match are as follows:

T. R. Johnston and E. H. Newman; winner to play W. E. Merrill. The winner of the first of the following groups is to play the winner for the second; the winner of the third, that of the fourth, etc. L. W. Whitehead and D. C. Dunning; C. J. C. Johanson and L. C. Gustin; C. E. Norwood and J. M. Phillips; J. Paris and H. J. Chandler; L. B. Hoyt and R. D. Brown; P. F. Jones and Connor; L. R. Sears and D. E. Wordbridge; W. H. Blank and C. M. Woodrock.

As was stated in the Saturday issue of THE TECH, there will be a match played with Harvard in the Union at 7 P. M., Saturday, March 8. The officers of the club invite all those interested in the match to be present.

## SPANISH CLASS.

A statement was made in last Friday's issue to the effect that men at the Institute will be allowed credit for language work done at the Continuation School of this city. This statement is wrong, and has no foundation whatsoever.

## "THE OYSTER" SUBJECT OF PROF. PHELPS' TALK

Life of the Oyster from Embryo to Consumer Discussed Last Night.

Last evening Associate Professor of Biology E. B. Phelps of the Institute gave a very interesting lecture on "The Oyster." The lecture was given in Huntington Hall under the auspices of the Society of Arts, and was very well attended. Professor Phelps was introduced to his audience by President Maclaurin, who made a few brief remarks.

Professor Phelps began his talk by telling how the oyster commenced its life as a microscopic organism, developed from one of the few of the millions of embryos laid by the mother oyster and successfully fertilized. By means of lantern slides the gradual development of this fundamental cell was well illustrated. The lecturer emphasized the fact that this development was very rapid, and that it was only a matter of a few weeks before the minute swimming organism slowly acquired a recognizable form with the shell fast being formed. The tiny oyster then attaches itself to anything hard, and within a short period it has grown to the size of a five or ten-cent piece. This is then of the size of the commercial seed oyster, and is gathered, cultivated, and then sold to the oyster growers.

The growth of the oyster, the lecturer said, was affected by two important factors, its food supply and its enemies. It is a very interesting fact that the oyster lives on microscopic structures in the sea, and that these food products are taken into the body by means of a sucking and straining process, by which large quantities of water are strained off their solid material, which is retained. Among its worst enemies is the star fish.

Another quite interesting fact which the speaker brought out was the manner in which the oyster constructs its shell. The shell is built up from the interior in anticipation of the attacks of various spongy growths which have the tendency to bore holes into the shell. This building process is constantly going on, various layers being added until the shell forms a strictly protective covering.

Turning from the biological phase of the oyster, Professor Phelps spoke at some length on the great importance of the oyster industry to the nation, and went into detail, describing the different methods of sanitation used in oyster cultivation, growth and disposal to consumers. Because of its importance, the oyster industry demands especial attention by the government authorities, and already the various oyster growing States in the Union are giving it the necessary protection. The lecturer illustrated all his points on the screen, and as a whole the talk was very instructive and of considerable educational value.

## CALENDAR.

Tuesday, March 4, 1913.

4.30—Final Selection of Chorus—Union.

4.30—Meeting of Men Out for News and Editorial Departments of the TECH.

# FIND THE GLEE CLUB NOTICE

# THE TECH

Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

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TUESDAY, MARCH, 4, 1913

We heartily agree with Mr. Mattson, President of 1913, that the Class Presidents shall not become policemen in the Union, the sentiment which he expressed in his communication appearing in Monday's issue of this week. But we do feel that it should now become the function of the Class Presidents to reinstate the traditions that have fallen by the wayside. This may have to be done eventually by police 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 permanent. It is necessary that the student body be taught the point of view which had become traditional by their natural leaders, the Class Presidents. We feel that this should be done by earnest appeal.

## WRESTLING TEAM.

Recent Match With Harvard a Victory for Technology.

Upon more closely figuring the score of the Tech-Harvard wrestling match a few weeks ago, it has been found that the match resulted in a victory for Tech, instead of a tie, as was previously announced.

The difficulty arose from the fact that both teams won the same number of bouts, thus apparently making the score a tie. However, Tech won two falls and two decisions, while Harvard won one fall and three decisions. With falls counting three points, and decisions two points, as was arranged, the score becomes: Tech 10, Harvard 9.

This gives Tech an unbroken string of victories, and by this win over Harvard the record of the team becomes much better. Harvard's team is ranked with the best in the inter-collegiate world, and to win from it is no small feat.

## SOPH BASEBALL.

Meeting Postponed Until Thursday Noon at 1.40.

The Sophomore baseball meeting, which was to have been held yesterday noontime in the Union, has been postponed until Thursday. The meeting will be held in 22 Rogers, at 1.40 P. M. But very few men showed up yesterday noon, and so it was necessary to postpone all action until a sufficient number were present to make an election legal. Manager Thomas expects the following men to be present on Thursday: Baldrey, Bauer, Coffrey, Franke, Howlett, McDevitt, McIntyre, Morse, Roy, Scully Thomas, Hall.

## GEO. P. BAKER GIVES LOWELL INST. LECTURE

Talk on the Drama and the Novel Interesting to Large Audience.

Yesterday afternoon Mr. George P. Baker gave a very interesting lecture in Huntington Hall on "Dramatic Composition." This was the first of a course of lectures conducted by the Lowell Institute, one of which will be held every week.

Mr. Baker pointed out the fundamental differences between the drama and the novel. One of these lies in the length. A play must be confined within the proper limits which have been set by custom, whereas the novel may be practically any length.

In reading a novel the reader should be able to gain an intimate acquaintance with the author through the reading of his works. In a play, the idea is to create interest by marionette characters tell a story by the means of dialogue. It is easily seen that it is best to leave the personality of the author out of the dramatic production.

The fundamental principle of dramatic composition is that it must have illustrative action, action which is suggestive, and which will bring out clearly and forcibly what the author has in mind. The drama was begun in this way by monks who acted out historical and Bible stories. At first there was practically no talking, but later dialogue was introduced.

The idea of time is a difficult one for the amateur dramatist to deal with. In a novel there is a chance to tell the things which have transpired before the story begins, and also to say that the rest of the day was spent doing this or that, but in the drama it is altogether different. The action takes place now, and every line has its special meaning and particular bearing on the rest of the play. On this account special attention has to be given to the selection of every phrase. Some writers have the faculty of writing lines which are so suggestive in themselves that they bring forcibly to mind just what the author has in view when he writes the play.

Another difference lies in the fact that what sometimes can be tolerated in reading matter would be strictly debarred from production on the stage.

Mr. Baker also explained how difficult it is to adapt a novel to a stage setting on account of the fact that it was written with an entirely different purpose in mind.

## BOAT CLUB MEETING.

Permanent Constitution to Be Adopted Wednesday.

There will be an important meeting of the M. I. T. Boat Club on Wednesday afternoon, at 4.15, in the Union, and all men interested in Crew or Boat Club should make it a special point to be present. At this time Temporary President E. C. Gere will present for discussion the Constitution that has been drawn up to meet the needs of the permanent organization. If the Constitution meets the approval of the men present it will be adopted and the members will then take up the business of the election of permanent officers.

It is the hope of all those interested in a crew at Tech that this meeting will be well attended, as it is to this organization that the crew must look for its support.

The race with Annapolis has been given up as it is thought best to put the entire energy towards building up a strong boat club. The members of the organization feel that the entire sum of money which can be raised should be put towards improvements rather than in such a trip as this.

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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.

Both teams have been practising 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 play a vastly better game. Friday, the Sophomore team met defeat at the hands of the Haverhill team, and Saturday the Freshmen were also defeated by the Cunningham team by the close score of 25 to 21.

The Freshmen will also play Saturday with the fast Quincy Y. M. C. 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 discussions will be continued. It is hoped that the Rev. Mr. Van Etton will be present to lead the discussions. The Brotherhood cordially invites all men interested, especially Episcopalians, and would like to have men with a problem to present come. The particular problems offered will be discussed at considerable length, and very likely points will be brought up during these discussions which will help to settle the problem.

**WIRELESS LECTURE.**

(Continued from Page 1.)

fact that the light omitted gives only a spectrum of pure hydrogen and does not show any of the characteristic spectral lines of the metals composing the electrodes. It is noiseless in operation, and once adjusted, it requires no further attention for a considerable time, a distinct advantage.

Dr. Chaffee explained the application of this gap to his system of wireless telephony, and showed many interesting slides explaining its various functions. A feature of his system is the extremely small amount of power which he utilizes. Operating on a 220-volt D. C. circuit he can telephone several miles with an energy consumption by the gap of only thirty watts. The very low voltage employed (220) makes it possible to use air condensers such as are ordinarily used only in receiving circuits and inductances of common insulated wire wound closely together. He uses a very close coupling and normally operates with a wave of about 600 metres, although a large variation in wave length is permissible. The receiving circuit is that of an ordinary wireless telegraph station and all amateurs around Boston have doubtless heard speech and music radiated from the laboratory.

Dr. Chaffee showed this gap in operation, causing a miniature aerial to vibrate in 1, 2, 3 and even 4 sections by the proper adjustment of apparatus. This clever feat called forth a burst of applause from the audience.

A general discussion followed the lecture. The next meeting of the society will be held on the first Saturday in April.

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**VEILED HAND AND ARM APPEAR IN TECH OFFICE**

**Staff Men Awaiting Appearance of Ghost Are Overcome By Strange Aroma.**

An attempt was made last night by some of the valiant men who are on the news staff to solve the mystery of the ghost who has lately been hovering over the office of THE TECH. The members of the staff were encouraged during their long wait by the renowned Professor Munstaburgh, who had gallantly offered his services to aid in solving the mystery of the ghost. According to all prophecies of previous days, the solution was to be made known last night, so a large number of men were present.

While awaiting the appearance of the ghost and the solution of the mystery those present became aware of a peculiar aroma that pervaded the office quite a while before midnight.

Some of the watchers began to think they saw a light filmy vapor arising through the trap which connects the lower office with the upper one where they were gathered. A sleepy, dreamy feeling gradually began to overcome everyone. They began to undergo that delightfully calm and peaceful feeling that one experiences when sitting before the open fire and thinking of the girl at home. What could have been the cause of that sweet, mystifying medley that was heard as an accompaniment of that filmy vapor that was arising through the trap at that time, no one could say. One of the staff struggled successfully against the powerful opiate-like gases long enough to get a glimpse of what appeared to be a veiled hand and arm rising through the trap. The sight seemed to complete the charm of the gases, and he, too, succumbed to the overpowering forces.

Professor Munstaburgh was told on awakening of the appearance of the hand, and he went to work with renewed interest to find a means for overcoming the sleep producing vapor. This morning he believes that he has found a way to do so. He has again offered his services tonight, and if his means of nullifying the effects of the vapors is successful then the solution of the ghost's mystery is assured.

**H. W. HOOLE, '08.**

(Continued from Page 1.)

tacked the problem of increasing the factory efficiency of the many plants operated by this association. He also devised and successfully carried out methods of standardization of products and for preventing the excessive waste of hickory, the most widely used wood in the hardware trade.

While occupying this position his work attracted a great deal of attention, and the Lufkin Rule Company of Saginaw succeeded in securing his services on the first of November. Although only three months with that firm, besides being professionally successful, he was so well liked by all the employees that they attended his funeral in a body.

Mr. Hoole was intimately associated with Mr. Stevenson, of the Dodge Manufacturing Company of Mishawaka, and Fred Buck, general manager of the Lufkin Rule Company, and it may be interesting to know that it was his character described by Forrest Crissey in the Saturday Evening Post. In Mr. Crissey's stories of the experiences of this young efficiency engineer he has used as a foundation the methods employed by the Lufkin Rule Company.

Mr. Hoole's whole life is an excellent example to all men intending to enter the engineering professions and he has surely proved that any really able and conscientious young American can win his way to success against the greatest odds. The Institute may well be proud of him.

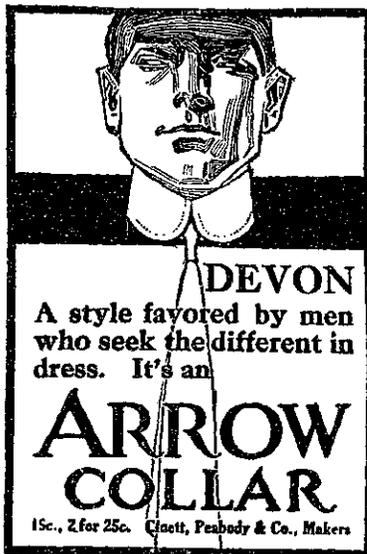
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