

THE TECH

VOL. XXXII. NO. 85

BOSTON, MASS., WEDNESDAY, FEBRUARY 12, 1913

PRICE TWO CENTS

ELECTRICAL SOCIETY TO MEET TONIGHT

**Mr. William McClellan to Speak
On Public Service
Corporations.**

Tonight, at 7.45 o'clock the Electrical Engineering Society will hold an important meeting in the Union. Mr. William McClellan, a prominent New York engineer, will speak on "The Public Service Corporations and the Public." Mr. McClellan was connected with the New York, New Haven & Hartford Railroad at the time of the electrification of the New York end and as far as Stamford. He is now Chief Engineer of the Public Service Commission of the Second New York District.

As has been the custom at previous meetings of this nature, all the men of the Institute are cordially invited to be present, and Mr. McClellan's talk is guaranteed to be one of great interest to all. It is understood that several Harvard engineers are going to take advantage of this opportunity to hear Mr. McClellan and will be present at this meeting.

Besides this talk there will be a business meeting, at which the matter of a new die for the society pin will be discussed.

COMMUNICATION.

To the Editor of THE TECH:

Dear Sir:—The communication published in an earlier issue on the proposed Institute Committee Constitution has given me reason for some perplexity. Your communicant invited questions and criticisms, and I venture to accept his courteous invitation so that my doubts may be set at rest. Firstly, I would like to know on what grounds, if any, does the present Institute Committee exist? Has the Institute Committee a definite place in the Undergraduate life, or is it just a means whereby certain among us take a chance to place themselves on a little higher plane than the rest of the Undergraduates and invest themselves with powers to which they have neither legal nor hereditary right?

Secondly, granted that the first question can be answered satisfactorily in favor of the retention of the Institute Committee, why should not the societies be allowed to choose their own representatives to that committee by general election, rather than be forced to send a certain officer as their delegate who may not be most suitable?

Thirdly, should the Institute Committee meetings be allowed to continue as at present, "in camera," or should not the Undergraduate body be allowed to attend and listen to the discussions and motions as made by their representatives, oftentimes on vitally important questions concerning themselves?

Fourthly, could not the articles coming up for each day's discussion be published in THE TECH so that all interested may attend the meetings?

All of these last suggestions are, of course, dependent on whether the Institute Committee is allowed to exist or not, and I, for one, will become a far more loyal and enthusiastic supporter if these questions can be answered by basic and logically secure arguments. Thanking you for this space in your valued paper,

Yours truly, "Cynicus."

CALKINS LECTURES IN HUNTINGTON HALL

**"Problems of Age and Death"
Discussed by Distinguished
Alumnus.**

Professor Gary N. Calkins, of Columbia, occupant of the only chair of Protozoology in America, and former Senior president of the class of 1890, of the Institute, gave an interesting lecture last night before the Society of Arts on "New Light on the Old Problem of Age and Death in Some of the Lowest Forms of Life."

He discussed in detail the contest which has been extant among biologists since 1881 upon the question of the possibility of physical immortality among the lower forms of life. The lecture was somewhat technical in its nature, but was made interesting by a large collection of beautiful slides, showing various stages in the lives of the protozoa, or one-celled animals.

Two kinds of cells, said Professor Calkins, exist: the somatic, or body-cell, and the reproductive. The former are born, grow, degenerate and die; while the latter, according to Wisemann, never die a natural death but give up life only when killed.

Professor Calkins discussed experiments conducted by Maupas and himself for the purpose of testing the validity of Wiseman's theory of perpetual life of the second class of cell. He described more especially a course of experiments in which he is at present engaged. Great divergence in the conclusions reached by himself and some others led him to suspect that some protozoa are mortal, while others possess great comparative longevity. He related that Professor Woodruff of Yale has kept some organisms until now they have reached the 3600th generation. These experiments, not yet completed, leave the question of immortality still open, for while his own experiments led the lecturer to believe that the organisms do not live beyond the 239th generation, those of Woodruff indicate enormous length of life, with possible immortality.

Professor Sedgwick, who presided, paid tribute to the technique displayed by Professor Calkins in his preparation of the slides. In some cases the sections photographed were no more than 1-1400th of an inch in thickness.

LABOR QUESTIONS.

**Mr. Sayward to Address Option
Two Men Friday Evening.**

The Architectural Engineering Society has arranged a very interesting program for its next meeting, to be held in 42 Pierce, at 7.30 o'clock, February 14. They have obtained Mr. W. H. Sayward, secretary of the Master Builders' Association, and an authority on labor problems, as the speaker for the evening. In the discussion of his topic, "The Way Out," Mr. Sayward will bring up the various questions concerning labor unions and their effect on industrial conditions. As these topics will be of vital interest to most Institute men, who are, sooner or later, to be forced to deal with them, the meeting is not limited to members of the society, and all are invited to attend. There will be refreshments served after the address, and twenty-five cents admission will be charged.

MEETING OF OFFICERS OF ELECTRICAL SOCIETY

**Plans Made for Great Activity
This Term—Change in Pin
Proposed.**

The Electrical Engineering Society had a meeting of its officers and executive committee yesterday noon to discuss plans for the coming term. It was decided to try to make the society the largest professional society in the Institute by securing members of the Sophomore class as associate members of the society. The membership of the society is at present largely made up of the Seniors, and about half of the Juniors who are taking Course VI.

The officers also discussed the matter of modifying the pin which has been used by the society since it was started, about thirty years ago. The use of the pin by members of the society has been very slight during the last few years, and the present idea is to so change the design that the significance of the pin will be apparent to people not connected with the Institute. The old design was made up of an old-fashioned commutator and brushes, surrounding a switch. The suggestion brought forward at the meeting yesterday was that the members of the society be asked to suggest designs for a background, on which the old design might be mounted. This background is to contain the lettering which will indicate that the Electrical Society is that of the Institute.

Plans were made for holding five regular meetings during the term, as well as a final banquet and five excursions.

(Continued on Page 3.)

HARVARD VS. TECH.

**Wrestling Teams Will Meet Next
Friday in Tech Gym.**

On Friday night, February 18, the Tech wrestling team will meet the Harvard team in the Gym. Tech is the favorite because of the fine showing that it has made in winning all the meets that it has participated in this year. The meet has been postponed a number of times this year, but the managers have finally succeeded in agreeing on a date.

On the Tech team there are a number of excellent wrestlers, a few stars, but as a whole it is pretty well balanced. Entries have been made in the 115, 125, 135, 145, 158 and heavyweight classes. In some there are more than one. This meet marks the return of Means, who will wrestle for the first time this year. Last year he did particularly well and much is expected of him this year.

There are a number of very good wrestlers on the Tech team, and although there are a few stars, on the whole the team is well balanced. In this meet Means will wrestle for the first time this year, and is expected to uphold his reputation gained last season. The entries are as follows: Loo and Sayer in the 115-pound class; Means and Kelly in the 125-pound class; Blodgett and Smyth-Martin in the 133-pound class; Alexander in the 145-pound class; Walters and Treat in the 158-pound class, and Wilson and Crowell in the heavyweight class. All the men have been doing excellent work, and it is expected that the team will prove more than a match for the Harvard men.

ADDRESS BY NAVAL OFFICER THIS NOON

**Captain Marsh to Explain Novel
Plan for Employment of
College Men.**

Promptly at 1.30 this noon, in 6 Lowell, Captain Marsh, of the United States Navy, will give a talk on a recently proposed plan for the summer employment of college men in the navy. If carried into effect this means that the Navy Department will appoint a certain number of men from the third-year classes at Technology, Harvard and Yale, to serve on the warships for two months. Besides helping to solve the summer employment problem for many men, it will be of great value to those who intend to enter the government service after graduation, or those studying Naval Architecture.

Only through the prompt action of the Dean, whose communication appears below, have the students of the Institute been notified of Captain Marsh's most interesting talk.

To the Editors of THE TECH:

The U. S. Navy Department has on foot a plan for the temporary employment of college men on the warships for two months in the summer vacation. Most of these men are likely to be chosen from the Junior classes in Harvard, Yale and the Massachusetts Institute of Technology. Captain Marsh, U. S. N., spoke to Harvard college men in the Harvard Union last night on this plan. He will speak to Technology students today, at 1.30 (Wednesday) in Room 6, Lowell Building.

This is a great chance for some of our men to spend a profitable vacation. All come and hear what Captain Marsh has to say. Professor Miller and Professor Jackson will also have a word to say about this plan.

Alfred E. Burton,

Dean.

Every one is urged to attend for they are sure to hear some very interesting facts regarding this unique proposal of the Navy Department.

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T. C. A. PICTURES.

All of the members of the Technology Christian Association Cabinet are requested to be at Notman's, 3 Park street, at 1.15 today. It is very important that all be there promptly, as the pictures for Technique will be taken at this time.

CALENDAR.

Wednesday, February 12, 1913.

1.15—T. C. A. Cabinet Pictures—Notman's.

1.30—Address by Captain Marsh, U. S. N.—6 Lowell.

6.00—E. E. Society Meeting—Union.

6.00—Meeting of Masons—Union.

Thursday, February 13, 1913.

6.00—Catholic Club Dinner—Union.

Friday, February 14, 1913.

5.00—Lowell Institute, "The Evidences for Fitness"—Huntington Hall.

7.30—Arch. Engineering Meeting—42 Pierce.

8.00—Wrestling Meet, Tech vs. Harvard—Tech Gym.

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WEDNESDAY, FEBRUARY 12, 1913

In today's issue appears a communication from Dean Burton which should mean much to Technology men. It shows again that Technology is recognized as one of the foremost of American colleges, and it will also give its men the opportunity to prove their superiority in technical pursuits.

It behooves every man to make a big effort to attend the meeting which takes place this afternoon at 1.30, in Lowell Lecture Room.

On February, the first, while the Union lounging room was practically deserted, some miscreant removed and took with him the two Technology banners with which the addition to the Cage was decorated. These banners were large and of the finest quality, retailing for several dollars apiece.

No doubt the persons who removed those banners thought that they were doing a very clever and funny thing. It seems to be an idea of some people, who are possessed of not a very desirable type of mind, that every time you can get ahead of the next fellow by any means whatever, you are a very smart man and deserve the plaudits of the world and the congratulations of the person wronged. We are glad to state that we do not think many Tech men are the unhappy possessors of this peculiar sort of mental equipment, but the occurrence of February, the first, would indicate that there are several men in the Institute who would fit far better in some institution for the feeble-minded, if not in one of the penal variety.

The children—we cannot call them men—who perpetrated this outrage in the Union would do well to return the banners and then make a solemn resolution that hereafter they will keep their hands strictly at home or else leave the company of Technology men. No such vandals who are in the habit of disregarding the rights of others in the Institute should have a place here unless the banners are returned immediately. THE TECH would be glad to see the apprehension of the offenders.

THE TECH is more than glad to announce the election of the following men to its staff:

REVEREND CUSICK TO SPEAK THURSDAY

Second Address on "Evolution to Be Given Before the Catholic Club.

Thursday night, February 13th. at 6 o'clock, the Catholic Club will give a dinner in the Union. After the dinner the members will be addressed by the Rev. Peter F. Cusick, S. J., on the very interesting and much discussed subject of "Evolution." This will be the second of a series of talks which the club is conducting, and will be a continuation of Father Cusick's last address.

At the last meeting of the club Father Cusick assigned a meaning to the word "evolution." He said that the first translation of it was "Darwinism," that is, the theory of evolution as set forth by Darwin in his book on "The Origin of the Species." Here Darwin states that all the species in the animal and vegetable kingdom originated from one primitive form. This theory as supported by Darwin is based entirely on chance, and is not regarded as correct by the Catholic religion. The speaker then proceeded to show why the theory is not supported, and offered two theories which are in accord with their teachings. These were that the Creator made each individual species, and second, that God created first a certain few, and that the present large number originated from these few species.

Father Cusick cited several interesting arguments and discussions offered in support of the various theories, and his talk was enjoyed by a large number of men. Thursday evening he will continue his talk, and those who hear him will never regret the time spent upon one of the most interesting and vital questions ever opened for discussion.

The officers of the club expect a very large attendance, and they encourage anyone interested to be present at the dinner and meeting. This second talk of Father Cusick's will be, perhaps, the most interesting, because he will set forth a theory on evolution which is expected to replace that of Darwin's, and he will also advance the various arguments that seem to favor it.

GRADUATE HONORED.

Miss Ryan to Hold Office of Buildings Inspector.

Miss Ida A. Ryan, graduate of the Institute, has just been appointed by Mayor Duane of Waltham as the superintendent of buildings and grounds and buildings inspector of that city. Since completing the architectural course at Technology Miss Ryan has had extensive experience in the practice of her profession, and is well qualified for her new work. Although this is the first time a woman has been appointed as a city official of Waltham, many citizens have expressed their approval of the mayor's action, and a bill is soon to be introduced in the Legislature legalizing the appointment.

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We also wish to announce that E. A. Weaver will take charge of the Institute Department.

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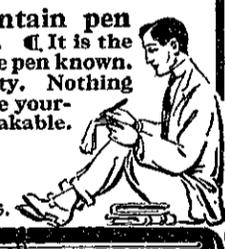
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MORE MEN WANTED.

Show Orchestra Needs All Available Institute Men.

With the beginning of the new term, the Tech Show Orchestra starts upon the interesting and important work for which it was originally organized. Last term the Orchestra was busy most of the time in getting acquainted with each other with their leader, Mr. McConathy, and with the methods employed in concert work. They gave several concerts, all of which were highly successful, and showed themselves to be able to attempt the work of playing at the performances of the Show.

From this time on the Orchestra will work upon the music that has been accepted for "Money in Sight." The first rehearsal will be held on Thursday afternoon, February 13, at the usual hour of 4.15 P. M. Mr. McConathy will be present, and it is hoped that there will be a full attendance.

Up to the present time there have been about thirty men regularly connected with the Orchestra. It has been found, however, that there are many more men in the Institute (about three times that number) that are able to play instruments that are still needed in the Orchestra. As the Orchestra is to take all of the trips that the Show itself is to make, this should be a great inducement to these men who have not already reported to do so on Thursday.

The instruments that will make up the full orchestra will be as follows: 16 first violins, 12 seconds, 1 viola, 4 clarinets, 3 flutes, 4 cornets, 2 trombones, 1 tuba, 1 French horn, 1 oboe, 3 cellos, 2 double basses, 2 drums, 1 tympani, 1 bassoon, and 1 piano, all of which are known to be in the Institute.

E. E. MEETING.

(Continued from Page 1, Col. 3.)

The officers of the society are trying to make it worthy of its position as the oldest professional society at the Institute, and perhaps the oldest collegiate electrical society in the United States. The officers of the society were recently changed, on account of the graduation of last term's president, and the new officers, F. C. Weiss, president, and J. A. Tennant, vice-president, were installed yesterday.

AERODYNAMICAL LAB.

The Institute may establish an Aerodynamical Laboratory in connection with the proposed course in aeronautics in the near future. Some time ago President Maclaurin was appointed a member of a federal commission to consider the founding of a national laboratory of this kind because of the rapidly increasing importance of aeronavigation. It has not yet been decided under the auspices of what institution the work will be done, but it is thought that Technology is being favorably considered.

MASONS WILL DINE.

First Meeting of New Club Held Tonight in Union.

The first meeting of the Masons at the Institute since they formally organized, some weeks ago, will be held in the Union this evening. After a dinner, at 6 P. M., the election of officers will take place. The price of the dinner is fifty cents.

Circular letters containing copies of the new constitution have been sent out to all men in the Institute already known to be Masons, requesting their attendance. It is the desire of the men now in the club to include in its membership all Mason here, and notice is given through these columns to those men who have not yet received a letter,

CIVIL SOCIETY TO PRESENT "MOVIES"

History of a Piece of Pig Iron to Be Thrown on Screen in Huntington Hall.

The Civil Engineering Society has arranged a very unique entertainment for its next Ladies' Night, on Saturday, February 15. It is to be given in Huntington Hall at 8 o'clock, and will consist of motion pictures illustrating the many stages in the process of manufacturing iron and steel products. The Boston Society of Civil Engineers are invited to attend, and Miss Margaret Doland, the author of "The Iron Woman," is also to be a guest of the Technology society. The entertainment is free and all Institute men who are at all interested in the subject will be welcome.

The pictures are entitled "From Mine to Moulder," and were first shown at the convention of the American Foundrymen's Association at Buffalo last September, and are acknowledged to be the most complete set of industrial pictures ever shown to the public. They are to be given again before the New England Foundrymen tonight, and the C. E. Society is very fortunate in being able to secure them. Every process is fully illustrated, including the mining, transportation and casting the crude pig iron, from which is manufactured Bessemer and open hearth steel for rails, sheet piling, and numerous other forms in which steel is used today.

The pictures will prove unusually interesting to those intending to take up these branches of engineering in their professional life, and everyone is sure to spend a most enjoyable evening.

PURE WATER STANDARD.

Institute Well Represented on New Federal Commission.

Four well known Institute men have recently been appointed as members of a Federal Health Commission by Secretary of the Treasury MacVeagh. The list is headed by Prof. W. T. Sedgwick, now in charge of the Biological Department at the Institute, and known all over the country as an authority on public health matters. The others are G. C. Whipple, M. I. T., '89, of Harvard; E. O. Jordan, M. I. T., '88, of the University of Chicago, and G. C. Hyde, M. I. T., '96, of the University of California, all of whom are prominent scientists.

This commission was appointed on the recommendation of the surgeon-general of the public health service to answer the question, "What is Pure Water?" resulting from the recent investigations concerning the influence of impure water on the public health. This action is preliminary to the issuing of regulations prohibiting the dispensing of impure water on railroad trains and other interstate carriers. The commission expects to co-operate with the State boards of health in this matter.

AVIATION LECTURES.

Course of Six by A. A. Merrill to Start Next Monday.

The advertised series of lectures on the science of aviation are to start next Monday under the auspices of the Mechanical Engineering Department. Mr. Albert A. Merrill, already well known to the members of the Aero Club, will give six lectures on "Aviation."

Professor Miller invites Seniors in other engineering courses than his own to attend the series. A small amount of outside preparation will be required in connection with the course. The lectures will be given from 4.10 to 5.10, in 11 B, on February 17, 19, 24, 26, March 3 and 5.

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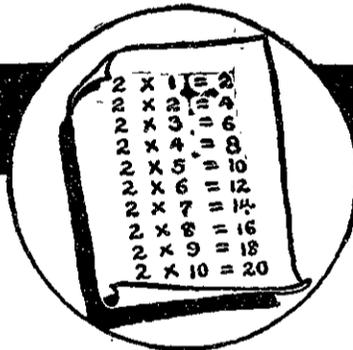
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