

THE TECH

VOL. XXXII. NO. 98

BOSTON, MASS., FRIDAY, FEBRUARY 28, 1913

PRICE TWO CENTS

1913 PORTFOLIO MAKES RAPID PROGRESS

Seniors Should Sign Up at Once to Aid the Committee.

Work on the Senior Portfolio is advancing with much rapidity. During the past two weeks Mr. C. W. Hearn, the official photographer, has been rushed off his feet by the men desiring to make appointments for pictures to be taken. But as yet there are a number of men who are especially desired by the committee to be in the portfolio, and they have made no movement to have their pictures taken. As March 10th is the time limit on which these pictures must be ready for the book, the men can readily see that they can afford no delay. The Portfolio Committee is making special dates for sittings for all men in all the courses, thus saving the men making a trip to Hearn's just to make an appointment. By seeing any member of the committee, any Senior may make his appointment.

The History blanks must be given more attention than to date. The men are asked to hand them in at the case as soon as possible. It is a large undertaking to make the proper alphabetical arrangement of pictures and histories, and for this reason the Seniors are asked to try to help the Portfolio Committee members as much as possible by writing (Continued on Page 2.)

COSMOPOLITAN CLUB.

Last Opportunity For Recognized Membership This Year.

By a ruling of the Executive Committee of the Cosmopolitan Club no member shall have his name included in the present rolls of membership, which will appear in Technique, unless his dues have been paid.

During the present week dues will be received by any members of the Executive Committee if left at the "Cage," or by Mr. Cadenas, 1913, Course I, the treasurer of the club.

Perhaps it is not generally understood that all foreigners at the Institute are eligible to membership and become active when they have paid the dues of the current year.

Editor's Note.—We reprint this article in today's issue in order that it may have greater publicity.

TECHNIQUE ELECTIONS.

Ballots Not Due Till March 5th—25 Must Be Voted For.

Owing to a delay in printing, the 1913 Electoral Committee has postponed the date on which the ballots are due, from February 28th to March 5th, at 4 P. M. Care must be taken in voting not to check more than twenty-five names, as the ballot will be thrown out. Also, in order to be eligible to vote or be voted for, a man must have all dues paid up to date. All those passing in ballots must sign their names to them in order to avoid any complications that may arise. It is to be especially noted that Mr. McCeney Werlich, who is now president of the Sophomore class, is ineligible to be on the Technique Committee, owing to his holding the above-named office, but he will act as chairman ex-officio until the committee elects its officers.

NAVAL COURSES FOR COLLEGE MEN

Interesting Co-operative Summer Program Has Been Arranged.

In a talk which was given at the Institute on February 12th Captain Marsh, who is the head of the Naval Reserve, told Tech men about a plan which is to be introduced this summer of taking college men into the Naval Reserve for a period of about two months of their summer vacation and giving them a very valuable training which would enable them to step in and render important service to their country in time of war. THE TECH has received some further details of this plan which are very interesting.

It seems that all the students from one institution will keep together and embark on the same ship unless their number exceed twenty. Two of them will be designated as first and second (Continued on Page 3.)

RETURN CHESS MATCH.

Harvard Sends First Team to Meet Local Club.

On Saturday evening, March 8th, an exciting intercollegiate contest is to be held in the Union at 7 P. M. It is to take the form of a return chess match, in which Tech's worthy opponent is the University across the river. Not long ago the Technology chess men triumphed over Harvard's second team, and now the supporters of the Crimson are going to send their best team in order to make a supreme effort to win back their laurels. But is Technology going to let them do this? Not without a worthy fight at least. At all events, this match promises to be one of great interest to all those who love to see the fair name of Technology in the forward ranks among the other great institutions of learning.

WIRELESS MEETING.

Dr. Chaffee to Address Members of New England Society.

The March meeting of the New England Wireless Society will be held next Saturday evening in the Jefferson Physical Laboratory at Harvard College. Dr. Chaffee of that university will address the members on the subject of wireless telephony. Dr. Chaffee is at present engaged in experimental work upon his wireless telephone, together with Dr. Pierce, who spoke to the society a short time ago. All members of the local Wireless Society should make it a point to attend, as Dr. Chaffee will doubtless have much of interest to say. Watch THE TECH for further particulars.

HARE AND HOUND CLUB.

The Hare and Hound Club will hold an important meeting today in Room 8, Engineering C, at 1.40 P. M. An election of officers will be held, and plans for the Spring season will be discussed. As this business is of especial importance, the officers earnestly request the attendance of all members.

The notice published in THE TECH a few days ago, to the effect that this election would be held February 24, was a mistake. The election is today.

FIRST REGIMENTAL DANCE TONIGHT

Important Notice Concerning Proper Uniform For the Hop.

Freshmen who are to attend the Regimental Hop tonight will be interested to know just what is the proper uniform for the occasion. Those who appear in drill suits must be careful to omit none of the customary equipment. Just what is the correct thing has been a matter of doubt to some, so we publish the statement of the Officers' Committee, which should be authoritative. The regular belt, cartridge box and bayonet should be worn. It is also customary to wear drill caps for the grand march. As many Freshmen have not yet drawn their side-arms from the Armory for the dance, Major Cole has arranged to have the Armory open all day today, so that none of the soldiers need be without their arms. The officers in charge of the dance expect the first Regimental Hop will be a great success (Continued on Page 4.)

WRESTLING.

Newly Recognized Team Goes to Beverly Saturday.

The wrestling team has finally been recognized as a Varsity team. At the meeting of the Advisory Committee, held during the first of the week, the matter of making wrestling a Varsity sport was fully discussed. The Council after going thoroughly over the matter finally decided that wrestling should hereafter be considered a recognized sport. The awarding of insignia for the team was also considered but the matter was laid on the table until later.

The team is going to Beverly on Saturday night to go against the strong Beverly team, and according to the showing that they have put up this year ought to have a good chance to come off with the long end of the score. The Beverly team has been considerably strengthened lately, and in spite of their defeat by Salem, with their new strength the entire list of bouts are sure to prove close and interesting. The Tech team has been working steadily and the majority of them are in the prime of condition.

There are to be nine bouts in all. In the 115-pound class, Loo and Sayer are entered. Means is in the 125-pound class, while Martin and Blodgett are scheduled to be in the 135-pound bouts. There are to be two entries in the 145-pound events and these are to be Alexander and Kelly. The entry in the 158-pound class has not been decided as yet, but it will be either Walters or Treat. Crowell has been decided upon for the heavy-weight class.

The team will leave the North Station on Saturday night at about 6 o'clock. Those who desire to accompany the team on this trip will find that they will have seen a series of good wrestling matches and will feel well repaid for going.

MANDOLIN CLUB.

An important rehearsal of the Mandolin Club will be held this afternoon at 4 o'clock, in the Union. Some new music a melody of popular airs, will be given out and it is desired that every member of the club be present.

MR. JEWETT SPEAKS TO ELECTRICAL SOCIETY

Tells of Engineering Problems Encountered in Bell Service.

Last evening, at 7.45, the Electrical Engineering Society held a dinner and meeting in the dining room of the Union. After the dinner there was a short business meeting, at which the subject of the change in the Society's pin was discussed and finally closed by voting to retain the old pin in its same form. Mr. Jewett of the Western Electric Company was introduced.

After a few introductory remarks, Mr. Jewett gave a few statistics to illustrate the size of the Bell Telephone and Telegraph Company, of which the Western Electric Company, the American Telephone and Telegraph Company, the New England Telephone and Telegraph Company (Continued on Page 3.)

CHEMISTS TO MEET.

Talk on Coal to Be Given Tonight in Union by Mr. Buhler.

Tonight, at 7.45, comes the February meeting of the Chemical Society. H. W. Buhler, an expert on coal valuation, will give a talk to the members on the "Buying and Testing of Coal," illustrating his points with a series of slides. Mr. Buhler has been connected with coal work for some years, and will probably have much to say on the apparatus that has been developed for commercial use in coal analysis. The Emerson Calorimeter Co. has been doing much work in improving the methods of testing coal, and the speaker may be willing to explain how the improvements were made by men in the employ of this company.

Besides the talk there will be a business meeting, at which the committee on the revision of the constitution will make its report. There is also some other business left over from the January meeting of the society.

1914 ENTERTAINMENT.

The Junior Class is planning to hold an entertainment in the Union which bids fair to rival any other meeting ever held in that place in fun and merriment. Free smokes, vaudeville stunts by class members and many "surprise stunts" are scheduled for a big Junior Smoker to be held on the evening of March 8th. The Faculty are invited and a big time is promised, so all Juniors should keep the date open and plan to come.

The committee in charge of the affair are: W. H. Brotherton, chairman; R. D. Salisbury and P. E. Morrill.

CALENDAR.

Friday, February 28, 1913.

4.15—Rehearsal of Tech Show Cast—Union.
4.15—Mandolin Club—Union.
7.45—Chemical Society Meeting—Mr. Buhler as Speaker—Union.
8.00—Regimental Hop—Horticultural Hall.
Last Day to secure 1913 Techniques—Technique Office.
1.40—Hare and Hounds' Meeting—8 Engineering C.

THE TECH

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FRIDAY, FEBRUARY 28, 1913

MORE PUBLICITY NEEDED.

The success of the Wrestling Team in its meet with Harvard last Friday must have caused some satisfaction in the student body, for when a Technology team, drawn from a much smaller enrollment, and with much less spare time, can fight a Harvard team to a tie, the virtual victory is unquestionably with Tech. That, however, is not the best of the results shown by this meet, for the great increase in attendance over the last inter-class affair indicates a marked improvement either in the interest of the Tech man in activities or in the management of the meets, or both.

It seems fair to suppose that the men will come out as willingly to see a track contest with which they are all more or less conversant, as they will to witness a wrestling match, of which most of them are comparatively ignorant. It is likewise probable that the real attitude of the undergraduates regarding their support of athletics has changed to any marked degree within a single month. We can only conclude that there was much more efficient management in making public this last affair than was seen in that of the recent track meet.

As the Track Team is our most important athletic activity,—the one to whose support we are most often called,—the matter of its efficient management therefore becomes of considerable importance. A little study of the methods of the managers of the Wrestling Team, especially in the sale of tickets before the day of the meet, rather than at the door, might be both an enlightenment and a help to those who are responsible for our Track Team and its finances.

COMMUNICATION.

Editor of THE TECH;

Dear Sir:—The Bursar has occasion so often to get after the students for forgetfulness and other shortcomings that he must perhaps expect to have attention called to his deinquencies when they are as apparent as in the instance referred to in yesterday's TECH, but he must express his mystification at just what was meant by the statement: "He shines out among all the rest." Furthermore the Bursar wishes it known that he objects most strenuously to being held up as a living example of an old man, and ventures to express the hope that the writer of the article in question may enjoy such a calm, untroubled, and exemplary life that he will feel as young as the Bursar when he reaches his age.

Yours, truly,

F. H. Rand.

Bursar.

ALLEGED CLUE TO RUMOR IS FOUND

Scraps of Writing Indicate Importance of Number Five.

No feasible means has been suggested as yet for capturing the nocturnal visitor to the office of THE TECH. A trap was suggested, and unless a better method of capturing the ghost shows up a large trap will be purchased and set. The staff does not have much faith in the trap idea because the Rumor does not seem to be composed of anything more tangible than air. The idea is not to kill the wraith, but only to capture it so that it may be made to give up the fatal secret of what is to happen on the fourth of March. In this connection it might be stated that two more typewritten sentences were found yesterday morning. One of them contained certain words which automatically bar it from publication in this paper, but the other seems to be perfectly harmless. It contains the old word "Five" again, and this leads the men who are working on the case to surmise that five things are going to happen on the fourth of March, or else that five somethings will have to be coughed up as the price of immunity from the disaster scheduled for that day. For the use of those men who are endeavoring to solve the mystery we publish the sentence: "Eat special south-paw five."

THE TECH wishes to thank the unknown student whose communication is printed in this issue for his theories. It is hoped that other men may overcome their innate bashfulness and send in their opinions. Only a few more days remain before the terrible Fourth of March is upon us. We must solve the mystery and find some means of defeating the doom which is in store for us else we perish!

SENIOR PORTFOLIO.

(Continued from Page 1.)

their data on the blanks as clearly as they can and by being prompt in submitting their blanks.

As yet the sign-up work has not been gone into with a rush, owing to the photographic work holding precedence, but from now on every man is going to receive special attention in regard to his signing up. As the Seniors probably know, the Portfolio is a limited edition and the number in this edition must be put in the printing and binding contract by April 5th at the latest. It is only fair to state that there will not be as many books as there are Seniors and for this reason the fellows can see that signing up is no joke, but must be done as soon as possible else they run a chance of losing their copy of the book. Sign-up books are in the hands of the following Seniors:

Course I—H. M. Rand (committee member), J. J. Strachan.

Course II—H. D. Peck, E. W. Brewster.

Course III—A. F. Brewer (committee member), L. H. Lehman, W. L. Whitehead.

Course IV—H. O. Glidden, W. F. Herbert.

Course V—A. E. Hirst.

Course VI—Z. Crocker, R. A. Randall, W. Katzenberger.

Course VII—R. B. Haynes (committee member).

Course X—W. N. Holmes (committee member).

Course XI—L. C. Hart, R. B. Nichols (committee member).

COURSE XIII—H. B. Cady.

Course XIV—H. B. Blake.

Mr. C. W. Hearn, at 729 Boylston street, the official photographer, also has sign-up books for the convenience of any Seniors who desire to sign up when they have their photos taken.

It isn't the pay-day ghost.

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Yesterday, at 1.30 P. M., Mr. Abrahams, the T. C. A. speaker, delivered a talk that made those present sit up and take notice. He started out to speak on the subject, "Labor and the Church," but before he ended he had succeeded in shocking every conservative in the room by his radical statements.

He commenced by stating that the aims of the church and labor unions are one, and therefore they should work hand in hand. The methods by which they approach this same end are radically different, the church appealing to the spiritual side and the labor union to justice on the economic side. He stated that the church was not performing its duty, and showed how the labor union was much more efficient in helping man than is the church today.

The unions have a number of institutions by which their members are benefited on various occasions, such as a sick benefit fund, loaning fund, death fund, etc. He gave various instances in which the union was of benefit and the church was not. He stated, however, that the church was progressing, rather slowly, but still in a manner that no one can help noticing. A number of years ago a representative of a labor union, or even a man that advocated a living wage, was not permitted to speak in a church, but now the church is waking up to the fact that it has to face these problems, and is treating them accordingly.

Then he explained what he meant by a living wage, and said that all the studying of social economics in the world would not acquaint one with actual working conditions. Only the man who is suffering under the burden is the one who really understands what it means. A living wage, according to the speaker, is enough to support a man his wife and family, and allow him to save a little for old age.

He talked of the eight-hour day and expressed his opinion that it would become universal. Then he broke out and said that the thing the labor unions are working toward today is not the eight-hour day, but "a five-hour day, five days a week, and five dollars an hour." One day for God, one day for man, and time enough for a man to get a chance to study and learn. The prediction sounded very radical to most of the men present, but so do all new propositions propounded by the leaders of the men who are lower down in life.

NAVY WORK.

(Continued from Page 1.)

leaders of the whole group upon the recommendation of the faculty of the institution or the men themselves. The men will be furnished with hammocks, bags, and ditty boxes, but they will provide their own bedding. Suitable place will be provided for the storage of their civilian clothes which they will wear ashore when not on duty. The men will be required to keep their quarters and equipment in order.

In the course of instruction every effort will be made to give the individual the training which will be the most advantageous to him and in laying out the work the Naval Officers will confer with the Presidents of the institutions and with such professors as the Presidents may designate to arrange the summer work in order that the individual and the Naval Department may each receive the maximum benefit.

In order that the students may have some idea of the summer's work, the nature of the battleship cruise during the summer may be described as follows:—

(Continued on Page 4.)

FREE SPANISH COURSES.

**Tech Men Wanted—Language
Conflicts May Be Made Up.**

Are you interested in taking up a course of Spanish? If so, there is a splendid opportunity offered you in a free class in Spanish which is being held in the Continuation School of this city. Special courses in Spanish, Portuguese and Italian are given which are arranged to be of immediate value to men who intend to enter into the commercial life of countries where these languages are spoken, and also scientific Spanish for engineers. Instruction is given by thoroughly competent native teachers. These courses can readily supplement any given by the Institute, and, as no English is spoken in class, they afford a careful training to the ear. Men who have language conflicts at the Institute will receive credit for these courses. New courses are being formed both for beginners and advanced students. There are many college students in these classes, and a class of fifteen Tech men is desired. Each class meets two days a week, from 3.15 to 4.15 P. M. Similar courses are given daily from 4.30 to 5.30 o'clock. The latter classes have been held since December, but students having some knowledge of the language may be admitted to these. New men should apply at once to the office of the principal, Paul V. Donovan, Room 21, No. 48 Boylston street.

E. E. DINNER.

(Continued from Page 1.)

many, the Western Union Telegraph Company, and several others are subsidiaries. In the Bell Company alone there are 200,000 employees, and in the last seven years the company has spent for new constructions, \$250,000,000. The size of this amount may perhaps be best realized when one thinks that on the Panama Canal in the same time there has been spent \$220,000,000, over a hundred million less, and what this amount has accomplished is well known. In the Bell system there are 167 Tech men, by far, more than the number furnished by any other single engineering school. The men who hold the responsible positions are relatively young men, the majority of them being under middle age. Mr. Jewett said that the men in these positions were, as a rule, men who began in the engineering departments and have been promoted into the business end. The Vice-President of the Western Electric Company began his work in the company in the engineering departments.

Mr. Jewett then turned his attention to the working of the engineering departments, and said that the work of this department in the Bell Company was to look after the data concerning improvements, look after the needs of the different departments, and they were greatly concerned in the spending of the vast sums of money expended by the company. This department also considers all improvements and classifies them according to the amount of money to be saved by them.

When a certain class of telephone service is changed there is very often a change of equipment necessary and the data for the development of a new device is secured by the American Telephone and Telegraph Company. This data is turned over to the Engineering Department of the Western Electric Company, the members of which study it and develop the required article. This is given to the Patent Department which is expected to answer but two questions: first, "Is it free from other patents?" and secondly, "Is it patentable?" If it is free from other patents they go ahead, but if not, they go to work on a new device. If it is patentable it is patented, but this is not necessary to

(Continued on Page 4.)

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DANCE TONIGHT

(Continued from Page 1.)

cess. So far there has been no hitch in the proceedings, so everything will probably go smoothly this evening. Tickets for about 125 couples have been sold already, but the supply is not quite exhausted. Those who may decide at the last moment to attend can get tickets at the Cage, or at the door this evening.

Horticultural Hall is to be the scene of the festivities, which will commence with a reception at 8 P. M. Mrs. President Maclaurin, Mrs. Major Cole and Mrs. E. L. Miller are to be in the receiving line. Next will be the grand march, in which the M. I. T. Army will, no doubt, make a very martial and soldierly appearance. Dancing will consume the remainder of the evening. All the popular music will be played, and refreshments will be provided during the intermission.

The officers are anxious to have as many men as possible in uniform. A military dance should seem to be a gathering of ladies, soldiers and civilians; not simply ladies, civilians and soldiers. To give the Hop its greatest success all the cadets who are present should be in uniform.



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SENIORS who want their names to appear on the Class Day Committee ballot must pay dues by Saturday, March 1. Class 1913. E. L. MacDonald, Treasurer.

(Tues. Feb 25-5t)

E. E. DINNER

(Continued from Page 3.)

its manufacture. After it passes the Patent Department it goes to the shop where it is examined as to the ease with which it may be manufactured and the cost. Any changes which will make it easier or cheaper to manufacture, without hurting the use of the article, are made, and then it is manufactured and the American Telephone and Telegraph Company make a trial installation of it, and if it works well it is then put into universal use. This trial does not always find some defect which may be present, and which comes out later and costs a great deal of money and labor to replace with a new design or with the old apparatus.

Mr. Jewett wished to call attention to the duties of the Engineering Department of the Western Electric Company. This department is responsible for the design and quality of all its products. In its work it is, as it were, between two fires. One is the American Telephone and Telegraph Company, which demands the best quality, with price as a secondary consideration, and the other is the Western Electric Company, which demands that the cost of production shall be as small as possible, and both have to be satisfied. The cheapening of the cost of production of one article was at a sacrifice of two-thirds of its life.

In closing, Mr. Jewett wished to have it understood that there were not too many men for the jobs, but there was a decided lack of capable men for the big positions.

After the close of the talk, which was well appreciated, Mr. Jewett was elected an honorary member of the Society. The meeting broke up after the members had given the So iety yell with three "Jewetts" on the end.

COMMUNICATION.

To the Editor-in-Chief:

I was very much excited by the story of the mysterious visitant to the office of THE TECH. I see that you ask for communications relative to the solution of the problem, and for that reason I take courage and send you my humble opinion. If it should help you to solve the mystery of what is going to happen on March, the 4th, I shall feel well repaid. I desire only to be of service to my fellow-students in the Institute and to your paper. However, if you should feel that my services deserve some more tangible recognition you might leave the price of a square meal in box 2313, the Union. Here, then, are my opinions:

The mixed-up sentences which the spirit wrote have a deep significance. I believe that the mark in the first one would indicate that the faculty is after money for some reason or other, and in this connection the word "five" in the second sentence might well refer to the amount for which they intend to hold each student up. I cannot agree with you on the significance which you attach to the word "rush." It seems to me that it would better refer to the rush of students to pay up, which the faculty expects to take place when their demands are made known. The word "Mexico" is intended to give some inkling of the condition of affairs which may be expected if the demands of our superiors are not complied with. These, then, are my humble opinions. I hope that you may find them of use. Hoping to receive a note, etc., from you, I remain,

Hungrily yours,

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NAVY WORK

(Continued from Page 3,

The whole fleet, including destroyers, submarines and auxiliaries, will rendezvous somewhere on the New England coast, probably in Narragansett Bay. It is, in general, the custom for the fleet to spend one week in port, and one week at sea in fleet manoeuvres. The week in port, however, is not an idle week. During that week there are carried on all exercises of the character which can best be carried on by ships at anchor. This involves boat work, signals, mine-laying, overhaul of machinery, tying out of torpedoes and much else. The exercises at sea are of a general character, simulating war manoeuvres. The fleet is divided into two fleets or squadrons which are pitted against each other as in war times. There are day and night attacks on the fleet by both torpedo vessels and submarines. There are torpedo practices, underway and at anchor. In consequences of the weather conditions of the New England coast in summer, involving a large percentage of fog with occasional gales and heavy weather, all these exercises assume a very realistic character. It is believed that the character of the exercises and their importance in national defence will not only give great interest to the young men from the colleges, but will lead them to think very seriously about these important questions.

In the course of the summer, the week in port is not spent by all the fleet in the same port. Each week the different divisions are sent to other ports from Portland to New York. After the completion of the summer work from the base, the fleet leaves about the middle of August for the Southern drill grounds off capes of the Chesapeake to prepare for and hold the autumn fleet target practice. Usually a war game is played on the way south.

Arriving at Hampton Roads, the fleet is coaled and proceeds to the drill grounds, where it remains until after the target practice. This period of two or three weeks is one of unusual interest. The target practice is usually completed by the tenth of September.

It must be understood that this is no yachting trip or summer excursion. It will involve hard work without much regard to the hours of the day or night. For such is the custom on board ship. It is believed that the result to the individual and to the country will more than compensate for the work done, and money expended.