

THE TECH

VOL. XXXIV. No. 86.

BOSTON, MASS., FRIDAY, FEBRUARY 12, 1915.

PRICE THREE CENTS

BLAMES SENIORS FOR PORTFOLIO DELAY!

Member Of Technique Board States Seniors Are Lax—Proofs Not Returned.

"Procrastination in the matter of returning proofs to Notman's and careless and unreasonable delay in making appointments for sittings is threatening to seriously interfere with the prompt and successful issue of Technique 1916," said the Senior Portfolio Editor of that publication in an interview with a reporter for The Tech yesterday. "Only about a half of the Seniors," he continued, "have had their sittings, and of these only about a half have returned proofs to Notman's. If the Seniors do not hasten to have their sittings at the photographer's, and after receiving the proofs, return them quickly Technique will be unable to make up its Portfolio Section on time and serious difficulties will have to be overcome."

The reporter also learned that a member of the Senior Committee in charge is in the Union every noon from 1 to 2 to make appointments for sittings and all men not yet signed up are requested to drop in (Continued on Page Six)

CHEMICAL SOCIETY

W. D. Bigelow To Speak Next Friday Evening.

Next Friday evening the Chemical Society will hear a talk on "Troubles of a Research Chemist" by Mr. W. D. Bigelow, Chief Chemist of the National Canners Association. Mr. Bigelow is particularly fitted to talk on this subject, because of his vast experience as a research chemist. Personally he is a very interesting man, and the talk should be of value to those interested in any phase of chemistry.

The place at which the talk will be held will be announced later. Everyone is invited to attend.

CALL FOR CANDIDATES

There will be a meeting of all men who wish to try out for the News Staff, the Circulation Department, or the Business Board of The Tech, Wednesday, February 17, at 1.30 in the lower office. The heads of the various departments will be present to describe the work and to assign the candidates their individual work.

JUNIOR BOARD

There will be a meeting of the 1916 Board of Directors in 26 Rogers today at one o'clock. The meeting will only last a few minutes if every man is on time.

SIGMA CHI LEADS FRATERNITIES IN SCHOLARSHIP

The Tech Leads Activities With Technique Close Second—Little Difference Between Fraternity and Non-Fraternity Men

A very interesting tabulation of the students at the Institute has just been made by the Registrar. It is a rating of the students in their studies with reference to courses, years, athletics, activities and preparatory schools. Some of the facts establish new and curious points while others emphasize what is merely common sense.

In the method used to measure the standing of various groups of students the record of every student in each subject has been weighted according to the number of hours per week assigned to the subject. If a drawing or laboratory subject has four hours a week it will not influence a student's record as much as a subject in which there are four hours of classroom work because, in general, drawing and laboratory exercises have no hours of preparation assigned to them while classroom work, frequently, at the Institute has twice as many hours of preparation assigned as classroom hours.

A practical method has been chosen where the literal records have

been given a factor which corresponds very generally with the average percent in the practice of many of the instructors.

All of the records of the undergraduate students of June, 1914, have been recorded on separate cards and weighted according to the hours and each literal record has been multiplied by the chosen factor. The total number of points has been found for each student. Each card has been labelled with the year and the course of the student and a memorandum has been made of the fraternity, athletic interests or student activity of each student. This catalog of 1511 records has been divided into many groups and the total of each group and of each year within the group has been noted. Some of the results are here given.

Dividing the complete set of records by classes it is found that the first-year students average 69 percent of the points and that the second-year class dropped to 63 percent and that the third-year class (Continued on Page Four)

MEDAL AWARDED

Professor Richards Honored By The Mining Society.

Professor Robert Hallowell Richards has been awarded the gold medal of the Mining and Metallurgical Society of America, which will be presented at the meeting of the Society next March.

The award, which is the highest honor in its class, is determined by nominations made by all members of the Society, the Council selecting by vote from among those nominated. For this award there were but two names suggested by the popular vote of the Society. The presentation is to be made by Walter B. Ingalls, '86, editor of the Engineering and Mining Journal.

ROCHESTER EXPERIMENT

The instructors conducting the new experiment will be in Room 11, Eng. C, which is at the foot of the short flight of stairs leading from the Cage. Prof. Williams will meet the men from 1.00 to 2.00 on Monday; Prof. Moore, Tuesday; Prof. Howard, Wednesday; Mr. Rogers, Thursday, and Mr. Kennedy, Friday.

SHINGLE COMPETITION

The Tech Offers Prize For Best Drawing Submitted.

A prize of \$5.00 will be given by The Tech for the best shingle submitted to them by any student in the Institute before 5 o'clock, February 23, 1915. It is suggested that those competing for the prize avoid as far as possible the old stereotyped form of shingle.

On the shingle there should appear space for name, position, date and signature of General Manager.

VACATION CHANGED

In order that the Junior Prom may be more conveniently held on the evening of Monday, April 19th, the date of the Junior Week recess has been changed from the 15th to 19th, inclusive, to the 16th to 20th inclusive.

WEBSTER ELECTED

At the annual meeting of the New England Intercollegiate Athletic Association, held last Saturday at the Copley Square Hotel, D. B. Webster, '16, was elected vice-president of the Association.

GROUPS OF ENGINEERS TO DISCUSS PROBLEMS

Foreigners In The Institute To Talk About Work In Own Countries.

For the purpose of getting facts about engineering conditions in foreign countries a discussion group has been organized. The conditions in South America, Japan, China, India and Turkey will be taken up successively by the group under the leadership of men who know the conditions in each country. The following outline of the work shows the time and place of the meetings, as well as the leaders and the subjects of the talks. The conditions in the (Continued on Page Four)

TECHNIQUE PICTURES

The Wrestling Team picture will be taken Thursday at Notman's. Men should be at the studio at 1.10 promptly. Mr. Freeman wished it understood that no reappointment can be made; it is therefore necessary that all men be present with their wrestling outfits. The following men are to report: Clark, Loo, Bone, Stebbins, Rounds, Giles, Hoffman, Durkee, Goodell, Mertz, Wood, Bond, Crowell, Blodgett and Morse.

The Hockey Team picture will be taken today at 1.10. Notification was made to members of the team by mail.

NEWS MEN

There will be a meeting of all news men on The Tech in the lower office today at 1.30.

INSTITUTE COMMITTEE

The regular meeting of the Institute Committee will be held in 8 Engineering C tomorrow at 5 o'clock. Many important matters are to be considered.

CALENDAR

Wednesday, February 10, 1915.
1.00—1916 Board of Directors' Meeting. 26 Rogers.
1.10—Hockey Team Picture. Notman's.
1.30—News Men Meeting. Lower Office.
4.10—Boat Club Meeting. Room B. Union.
8.30—Catholic Club Dance. Hotel Somerset.
Thursday, February 11, 1915.
1.10—Wrestling Team Picture. Notman's.
1.30—T. C. A. Talk. Union.
5.00—Institute Committee Meeting. 8 Eng. C.
8.00—Tech Show Smoker. Union.
8.00—Dr. Jewett's Lecture. 26 Lowell.

THE TECH

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WEDNESDAY, FEBRUARY 10, 1915.

IN CHARGE OF THIS ISSUE.

Editor: J. M. DeBell, '17.
Assistants: K. M. Lane, '17; A. R. Brooks, '17; J. W. Damon, '18.

The slowness of the Seniors in making appointments for their Technique pictures is evidence of laxness and a tendency to procrastinate, but the reckless cutting of dates after they are set indicates something worse. If the innovation of including these pictures in the year-book is to prove a success, the class must be well represented, and this must be accomplished without imposing too much delay and hardship upon the Technique Board.

We hope the policy of publishing the relative scholarship standing of the fraternities will be continued. As organizations to which is often, and usually unjustly, imputed a bad effect upon the scholarship of their members, they have a right to know, and to have the public know, just to what extent these accusations are justified. To a less extent the same may be said of the Institute activities.

The project announced in this issue of forming a Technology Lacrosse Team seems well worthy of trial. The game is increasingly popular among American colleges, and is well adapted to the needs of Tech men in the way of exercise. If further argument for the project be needed, it is found in the favorable opinion of Coach Kanaly, who is ex-



Ex-President Taft will deliver a series of lectures at Dartmouth in March. The first one will be on the presidency. Following this on successive nights, he will give addresses on "the Signs of the Times" and "Popular Government and the Supreme Court." The series will be open to the entire college and will be held in Webster Hall. While at Hanover, Mr. Taft will be the guest of President Nichols.

Commander J. Foster Stackhouse, who will lead the International Oceanographic Expedition on the longest sea expedition for scientific research ever contemplated, will sail early next summer on a voyage of about 250,000 miles and extending over a period of seven years. The Discovery, the ship used by the National Antarctic Expedition, has been chartered. Commander Stackhouse, an explorer of wide experience, has been planning this expedition for many years and has won the interest and co-operation of nearly every nation and the financial support of many public spirited men. The purpose of the trip is primarily oceanographic, and the many thousands of islands, rocks and reefs now uncharted or only approximately located, will be definitely charted. Nearly every branch of science will be represented, however, and many distinguished scientists have offered their services to Commander Stackhouse.

FACULTY NOTICE

The course in Geology of the third year general studies will be held Tuesdays and Thursdays at 9 in room 13, Pierce Bldg., and Saturday at 12 in room 11 Eng. B.

WALTER HUMPHREYS,
Registrar.

tremely well posted on the condition and needs of Technology athletics.

The thanks of the undergraduate body are due to the Faculty for their willing assistance in solving the knotty problem of Junior Week.



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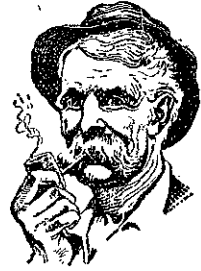
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**SERIES OF LECTURES
TO START TOMORROW**

**Electrical Engineering Society
Will Hear Talks About
The Telephone.**

The first of a series of six lectures to be given by engineers of the Western Electric Company will come tomorrow evening. Each of these talks treat some phase of the telephone industry, with regard to construction, maintenance, practical problems, etc. The opening lecture, given by Dr. F. B. Jewett, who is assistant chief engineer of the Western Electric Co., will be replete with interesting and absolute facts, told by one who knows the subject thoroughly.

The list of subjects for the course, as arranged by Dr. Jewett is as follows:

1. Introduction, covering in a general way the scope of the telephone system; the plant required for good services; and an outline of the magnitude of engineering problems involved.
2. Questions of apparatus design, building location and construction, and the general economies which have to be considered.
3. The outside plant, covering the construction of the various types of telephone circuits and the general problems involved in designing and providing for circuits needed to make telephonic connections.
4. Transmission. The economic and physical side of the transmission problem, covering the efficiency of various types of apparatus.
5. Manufacturing. The perfecting of necessary apparatus and the engineering subsequent to the formulation of the requirements for new apparatus and prior to the actual commercial manufacture of the same.
6. The organization necessary to handle the engineering work throughout the system, the general scheme of development, and problems connected with the standardization of apparatus and methods.

Since the Union is to be occupied for the Tech Show Smoker tomorrow evening, Dr. Jewett's lecture will be given in 26 Lowell at 8 o'clock. Other speakers for the remaining talks will be announced later. The date of the second talk is February 25.

WATERTOWN TRIP

The E. E. Society will run two limited trips to the Watertown arsenal on the 23rd and 24th of this month. It is imperative that men who desire to be in either party should place their names on the sign-up slips at once. The big gun that was lately sent to the arsenal for its carriage will be inspected and numerous testing machines will also furnish worth-while details for investigation.

**See The Tech
FOR
Clothes Trade**

**CATHOLIC CLUB BALL
AT HOTEL SOMERSET**

**Annual Event To Be Brilliant
Affair—Prominent People
Invited.**

The Catholic Club will hold its annual ball tonight at Hotel Somerset. This is the social event of the season for the club and has always been one of the most successful dances of the Institute, ranking second only to the "Prom." The entire club, now numbering over one hundred and fifty members, will be well represented. The dance is entirely an invitation affair and over eleven hundred invitations were sent out to the young people of Boston and vicinity. De Lancy's orchestra will furnish the music. It is regretted that Mrs. Maclaurin will be unable to attend on account of illness, the Institute being represented by Mrs. Burton, who is one of the matrons. Among the invited guests are His Eminence William Cardinal O'Connell, Governor David I. Walsh and Mayor James M. Curley.

The Catholic Club has greatly increased in size and strength during the past four years and now the regular attendance at its monthly meetings averages about seventy. The president is Charles A. Blodgett of Portland, Maine. The subscriptions to the dance are \$4.00 a couple, and the dancing will begin at 8.30 P. M., starting with a grand march, will continue until two o'clock with intermission for supper. During the intermission Mr. Gustave Saladrigas, '16, will sing "Dear Old M. I. T."

The matrons are: Mrs. Alfred E. Burton, Mrs. Charles Blodgett, Mrs. John H. Kennedy, and Mrs. Henry Hagan; Mrs. William J. Dooley, Mrs. J. Francis Driscoll, Mrs. William S. Quiggley, Mrs. William N. McGreener, Mrs. William P. Derby, Mrs. James P. Phelan, Mrs. Thomas H. Saint, Mrs. M. J. Cotter, Mrs. Joseph P. Kennedy and Mrs. James L. Ryan are patronesses.

Program.	
1 Waltz,	Millecent
2 One Step,	Tulip and Rose
3 One Step,	At the Ball
4 Fox Trot,	Meadow Brook
5 One Step,	
Under the Japanese Moon	
6 Waltz,	Congratulations
7 One Step,	You're Here and I'm Here
8 Fox Trot,	Ballin' the Jack
9 One Step,	Tommy Atkins
10 Waltz,	Sari
Intermission	
11 One Step,	That's a Plenty
12 Waltz,	Adele
13 Fox Trot,	Hands Off
14 One Step,	You Never Can Tell
15 Waltz,	Cecile
16 One Step,	Chinatown
17 One Step,	Tipperary
18 Fox Trot,	He's A Rag-picker
19 One Step,	Same Sort of Girl
20 Waltz,	Blue Danube

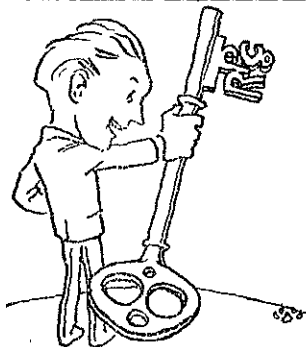
GAME CANCELLED

The basketball game with Penn State, scheduled for next Friday, has been cancelled. The Lehigh game will be played Saturday as planned.

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STUDENT STATISTICS

(Continued from Page One)

rose to 69 percent and that the fourth-year class attained an average of 71 percent. The student body as a whole made an average of 68 percent.

With reference to the students entering the Institute from other colleges, they are distinctly in two groups. Those who enter in the first or the lower years have a low record while graduates of other colleges rate comparatively high.

It has been interesting to see how the records of students vary who have been concerned with student activities. The Faculty of the Institute has not assumed control over any of the student activities but there are three activities that have consulted the officers in regard to the standing of the students whom they have been considering for positions in their organizations and two of the three, namely, The Tech and Technique, have shown splendid records. Their total averages, 73 and 70 percent, respectively, both are higher than the total student average. "The Tech Show" has a record which is not quite so high. The first-year students engaged in it did exceedingly well but the second-year students dropped to a low average while those of the upper two years were not good.

The students engaged with the musical clubs perhaps found less time for their work than they needed for they have not made a high average nor has the improvement in the third and fourth year records been so noticeable.

The students engaged in the athletic events have commendable averages especially in the fourth year.

The total average of all fraternity students is but little below the average made by the non-fraternity students. The average of the non-fraternity students might from its average be called a P-plus record while that of the average fraternity student would in comparison be a P, a satisfactory record. The chapter which leads the list has an unusually high record for a group of students. In the lower part of the list the difference between the records of chapters is less than in the upper range.

Following the custom of a number of other colleges and in order that the chapters of the fraternities at Technology may know where they stand relatively to each other and also that their alumni may help them continue their efforts to maintain good scholastic standing, we print a list of the chapters as they stood last June: Sigma Chi, Delta Kappa Phi [Kappa Sigma], Phi Kappa Sigma, Delta Upsilon, Phi Gamma Delta, Alpha Tau Omega, Phi Sigma Kappa, Theta Xi, Phi Beta Epsilon, Delta Psi, Delta Kappa Epsilon, Theta Delta Chi, Beta Theta Pi, Lambda Phi, Lambda Chi Alpha, Theta Chi, Sigma Alpha Epsilon, Delta Tau Delta, Chi Phi.

WALTER HUMPHREYS, '97.

PATRONIZE
TECH ADVERTISERS.

DISCUSSION GROUP

(Continued from Page One)

countries will be taken up under three main topics—the scientific schools, the natural resources of the countries and the development along engineering lines.

The first discussion will be held Thursday, Feb. 18, from 5 to 6, in the Union. Mr. Guimeraes, who leads the first hour, is from Rio Preto, Brazil, is a graduate of the University of Pittsburgh, and is now doing graduate work in Technology. He has had experience in construction work in Brazil. Besides speaking of his own experiences, he will bring out the general conditions in other parts of South America.

On Thursday, the 25th, Japan will be considered. Interest in Japan is now especially keen. Scarcely fifty years ago Japan had no school system of the modern type. The main topic of discussion will be the development of the schools culminating in the great Universities of Tokyo and Kyoto, equal in many ways to any in the world. Prof. Wada, who is now doing research work in chemistry here, and is Professor of Chemistry in Kyoto, will lead the group.

The vast resources of China are well known. What will be necessary for their development will be considered during the hour led by Mr. Chang on Wednesday, March 3. Mr. Chang is a graduate of Wuchang Provincial College, is finishing up the engineering course in chemistry preparatory to practical work in his own country.

Mr. Basu, from Horah, India, came to this University as a graduate of the Presidency College of Calcutta. He is well qualified to speak on India. The exact line of his talk, which is to be March 10, will be announced later. He is especially interested in mechanical engineering.

On Wednesday, March 17, "The background of the future Turkish empire" will be the subject of the talk by Mr. D. Brewer Eddy, who has long been connected with work in Turkey. He has acted as secretary for supplying teachers to schools and colleges, not only in Turkey, but also to India, China and Japan. He comes with slides taken recently in that country.

The group was organized to give Technology men a chance to know more directly the opportunities and conditions in these countries. Definite positions in engineering and other work will be considered. The requirements of various great American corporations for agents and engineers will be taken up, as far as time allows. Any student in Technology is welcome to come with any questions he may have, as the idea of the group is to have discussion rather than mere lectures. Address any inquiries in regard to the work to E. L. Clark, 84 St. James avenue, Boston.

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TECHNOLOGY MAN LOSES LIFE IN EUROPEAN WAR

Paul Gautier Vignal Killed Near Ypres While Leading A Brave Charge.

The last letter of Lieutenant Paul Gautier Vignal of Nice, to Registrar Walter Humphreys conveyed Christmas greetings to the Institute. Within a week the young Frenchman was killed in a gallant sortie from the trenches about Ypres. Vignal, who had the title of Count, was born at Nice, March 7, 1887, and attended Technology for two years. The notice of the charge in which he lost his life appears in the papers of Nice in considerable detail. The young man, gun in hand, was directing the assault. The news was communicated to the Institute by the bereaved father in compliance with the expressed desire of his son. A portion of his Christmas letter follows:

"I am still alive after a very bad time. We have a two days' rest, but tomorrow everything will start again. I was very lucky, but this cannot always last. I hope, but I cannot think it is possible, to get out of it. I have seen the deaths too near. The weather is terrible.

"We are around Ypres in the water and mud. Dead bodies are close to us. The smell is horrid. We will get the best of them in this war but it will last long.

"My best remembrances at Tech. I am sorry not to be there but I have to perform my duty to the end. What I have already seen cannot be described. This will bring you my best wishes for Christmas."

ELEVATED GETS PRIZE

Professor Swain On Jury Which Awards Brady Medal.

George F. Swain, Gordon McKay Professor of Civil Engineering at the Institute, was a member of the jury which decided the award of the Anthony N. Brady gold medal to the Boston Elevated. The medal which is to be presented today, was given "for making the best record of any street railway company in the United States in the promotion of the safety and health of the public and its own employees during the year ending June 30, 1914."

During the year the Elevated carried 343,181,049 passengers and covered 57,990,436 car miles. Only five persons were killed by falling from or while attempting to leave surface cars; the accident in none of these cases being the fault of the railway. No Elevated trains collided or were derailed and there were no fatal accidents to passengers on the Elevated trains.

FIRST YEAR BASEBALL

The Athletic Committee of the freshman class wish to meet candidates for the position of manager of the Freshman Baseball Team, Friday, Feb. 12, at one o'clock at the Cage.

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JUNIOR CLASS DINNER

To Be Held In Union Dining Room Next Tuesday Night.

The 1916 Class Dinner will be held in the Union Dining Room, Tuesday, Feb. 16, at half past six. The committee has secured as speakers for the evening Dean Burton, Professors Norton, Dewey and Hayward, and Mr. Blachstein. In addition to the speaking, an unusual surprise has been prepared to take the place of the "movies." Tickets may be purchased at the Cage and from the following Juniors: R. H. White, W. Farthing, T. M. M. Sweeney, K. M. Sully, Chas. Lawrence, P. H. Duff, K. Dean; E. H. Clarkson, Jas. Evans and H. L. Bickford.

PORTFOLIO RELAY

(Continued from Page One)

for a minute to see about a sitting. It is important that these appointments, when once made, be kept or the Committee notified and another date arranged.

The statistic blanks are still to be had at the Cage and may also be obtained from the Senior Committee members, Runels, Spencer and Wood. All this material must be ready for the printers within a short time so delay in obtaining and returning these blanks is as fatal as a similar delay in regard to the pictures.

T. C. A. TALK

The next T. C. A. Talk will be given tomorrow by Rev. James F. Richards, pastor of the Mt. Vernon church. His subject will be entitled "A Big Fight." The fact that many students of both Harvard and Tech attend Mt. Vernon is an evidence of his popularity and ability.

Other strong speakers who have been secured to speak in the near future are President Murlin of Boston University, Rabbi Levi of Temple Israel and H. I. Gibson, State Secretary of the Y. M. C. A. for Boys' Work.

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BOAT CLUB TO MAKE PLANS FOR SEASON

Rowing Machines Installed As Added Incentive For Candidates.

Members of the Boat Club and all students who are in any way interested in rowing are requested to be present at a meeting to be held today at 4.10 in Room B of the Union. Plans for the coming season will be discussed and any proposals made may be debated. The opportunity for the development of good class crews this year is exceptionally good.

The B. A. A. has very kindly loaned a number of rowing machines to the Club and through the kindness of Stone & Webster these have been set up in the basement of the Irvington Street Armory, where they will be used regularly in indoor practice. The call for candidates will be issued early next week and work on the machines will begin at once.

Freshmen will be particularly looked for in this branch of Institute sports since the ultimate desire of every Technology man is to see a strong varsity crew on the Charles by the time the new buildings are occupied. It is interesting, furthermore, to freshmen to note that the 1917 class crew won the interclass regatta held last May. The championship banner denoting this victory will be placed in the Union this week.

When once established in Cambridge the crew prospects will brighten visibly and with this fact in mind the third year architects, through the kindness of Prof. Williams, are planning to draw plans for a boathouse.

A NEW ACTIVITY

Any student who is interested in the formation of a lacrosse team is requested to leave his name and address at box 64, at the Union. An attempt is being made to exempt from gym work freshmen who come out for the sport. A meeting will be held later on in the week.

FRESHMAN PIPES

The freshmen who ordered class pipes can obtain them by calling at the Cuban Cigar Store, 42 Huntington Avenue, next door to Hotel Oxford.