

THE TECH

VOL. XXXII. NO. 113

BOSTON, MASS., TUESDAY, MARCH 18, 1913

PRICE TWO CENTS

CIVIL ENGINEERS TO MEET THIS AFTERNOON

Mr. John W. Howard Will Give Talk on His Experiences in Costa Rica.

This afternoon, at 4.15 o'clock, the Civil Engineering Society will hold an important meeting in Room 11, Eng. B. Mr. John W. Howard, of the Civil Engineering Department, who has spent the past year in Costa Rica, will tell of his many experiences while in that country. During his leave of absence from the Institute, Mr. Howard was engaged in making a survey along one of the boundary lines between Costa Rica and a neighboring state, for the purpose of settling a dispute which had arisen between them.

The talk will be accompanied by stereopticon slides taken by Mr. Howard. These slides besides bringing out the details of his work, are illustrative of the picturesqueness of the country. Many interesting features connected with the survey will be explained, and the officers of the society consider that they are offering an exceptional opportunity to hear something a little out of the ordinary.

Immediately preceding the talk by Mr. Howard there will be a business meeting. Owing to the resignation of Miles E. Langley, '13, from the office of vice-president, a new man will be elected to fill his place. Langley resigned in order to become chairman of the Union House Committee. The nominations for the office which he vacated may be handed to P. E. Merrill, '14, or may be made at the meeting.

FRESHMAN DRILL.

Committee Appointed to Arrange For Competition Drill.

The Freshman Regiment has elected a committee to take charge of the arrangements for the prize drills which are to be held at the close of the term. The six men elected to serve on this committee are P. H. Duff, W. W. Drummer, L. T. Hill, L. S. Huber, J. F. Maguire and G. H. Smart. At the first meeting P. H. Duff was elected secretary-treasurer, and L. T. Hill was given charge of the printing.

The duties of the committee include the publishing of the programs, arranging for the prizes, and sending out the invitations to competing schools. The committee has decided to hold the Interscholastic Competition Drill on April 30, and the Technology Drill on May 23.

Major Cole is trying to organize a Freshman drum corps but has not yet been successful. The men who have reported are: Clausen, Macy, Stewart and Graves. Any who are interested may get further particulars from Major Cole or from Col. Taft.

CERCLE FRANCAIS.

The Cercle Francais will hold its regular weekly meeting tomorrow afternoon at 5 o'clock, in Room 29, Lowell Building. The club will continue the reading of the French play by Pailleron, "La Monde ou l'on S'Ennuie," and it is hoped that the full membership will be in attendance so that all may take part and enjoy the reading.

MANY POPULAR MEN ELECTED TO SENIOR CLASS DAY COMMITTEE

H. D. Peck, L. C. Hart and A. C. Ranny are Marshalls--191 Ballots Cast--Largest Number in History of Class Day Committees

Twenty-five members of the Senior Class have been elected to serve on the Senior Class Day Committee. This committee has charge of all the activities of the class for the rest of the year, which include the Senior Fall, Class Day Exercises, the Pops, the Senior Spread, the Senior Dinner. It also has to elect an Historian, a Statistician, and a Gift Orator.

The First Marshal is Harry D. Peck of Millis Mass., and is a member of Course II. Last year he was the Class President and the Treasurer the preceding year. He has been a member of the Institute Committee during his first, third and fourth years here. He was manager of the Class Relay Team in his second year and was a member of the relay team the first year and a member of the Class Baseball Team the first and second, was Chairman of the Junior Prom Committee, was on Technique Electoral Committee, Vice-President of the M. E. Society, Advisory Council of THE TECH, Chairman of Finance Committee, and is a member of the Pi Delta Epsilon, Osiris, Cosmopolitan Club, Walker Club, Tech Club, and Theta Xi Fraternity.

The Second Marshal, Larry C. Hart of Dayton, Ohio was a member of the Class Basketball Team in his first and second years, Secretary of the Class during his Sophomore year, on the Technique Electoral Committee, Editor-in-Chief of Technique and was Assistant General Manager of Tech Show. He is a member of Sigma Alpha Epsilon, Theta Nu Epsilon, and Osiris.

The Third Marshal, Alfred G. Ranny, of San Antonio, Texas, has been Captain of the Hockey Team, is Vice-President of the Senior Class, was on Junior Prom Committee, and President of Walker Club. He is a member of Osiris, Cosmopolitan Club, Theta Tau, and Chi Psi.

The fourth man elected was Fred Murdock of Cambridge Mass. He was a member of the Class Football, Basketball, and Baseball Teams during

his first two years, was later a member of Institute Committee. He was also Chairman of Point System Committee and is a member and Secretary of the Walker Club. He is a member of Osiris and the Delta Kappa Phi Fraternity.

The next man, Edward B. Germain, of Buffalo, New York, is a member of the Varsity Track Team and is Captain this year. He is President of M. I. T. A. A., and a member of Institute Committee, and Technique Electoral Committee. He is also a member of Osiris and Phi Beta Epsilon.

The sixth on the ballot was Ellis Brewster of Plymouth, Mass. He has been on the Class Relay Team, Technique Electoral Committee, Junior Vice-President, Treasurer of Technique, and at present is on the Finance and Institute Committees, a member of Osiris, and Phi Delta Chi.

Geoffrey Thayer, of Allston, Mass., came seventh. He has been prominent by the number of activities he has gone into. These include: Tug-of-War, Tech Show Stage Manager, Tech Show Light Man, Business Manager of THE TECH, Class Executive Committee, Finance Committee, Musical Clubs, and Walker Memorial Commission. He belongs to the Walker Club, Masque, Hammer and Tongs Osiris, and Kappa Theta.

Eight choice was for Lionel H. Lehmann, who has been Advertising Manager of THE TECH, Editor-in-Chief of THE TECH, President of the Mining Engineering Society, and on the Institute Committee. He is a member of the Walker Club, Osiris, Pi Delta Epsilon, Cosmopolitan Club, and Kappa Theta.

Robert Nichols, of Warren Mass., received the ninth largest number of votes. He has been on the Tug-of-War Team, Junior Prom Committee, Junior Class Secretary, and is a member of Phi Sigma Kappa.

TECH—SIX Mar 17 Potter Miles Langley, of South Boston. (Continued to Page 2.)

CONCERT AT LYNN.

Musical Clubs' Concert Was Grand Success.

Last evening the Musical Clubs gave a highly successful entertainment at the Lynn Classical High School. The feature of the evening was "In My Harem," played by a quintette composed of the following instruments: guitar, mandolin, mandola, a ukulele (Hawaiian guitar), and a "One String," an affair somewhat like a cello but having only one string. This instrument was made especially for the occasion, and the selection brought prolonged applause. The encore which was given in response to this applause was an imitation of a bagpipe by three mandolins, a mandola, a cello and a guitar.

Hereafter the Gym will close at 6 P. M., since it is no longer used by the Boston Y. M. C. A. classes.

TECH MAN TO SPEAK.

Mr. Matthes, '95, Will Talk On "The Glaciers of Mt. Rainier."

At the meeting of the Appalachian Mountain Club in Huntington Hall this evening, at 8 o'clock, Francois E. Matthes will be the speaker. Mr. Matthes is a Tech man and graduated from the Institute with the class of '95. At present he is Topographical Inspector in the U. S. Geological Survey at Washington, D. C.

The subject of Mr. Matthes' talk will be "The Glaciers of Mount Rainier," and the lecture will be illustrated throughout by lantern slides. Mount Rainier is one of the highest mountains in the West, and is located in the State of Washington. Mr. Matthes recently completed a survey of this peak for the government. Everybody is invited to attend and a cordial welcome is extended to the public.

HARVARD PROFESSOR ADDRESSES M. E. SOCIETY

Prof. Hollis Gives Interesting Talk on Early Boiler Construction.

The lecture given before the Mechanical Engineering Society yesterday afternoon, by Professor I. N. Hollis of Harvard, proved to be unusually interesting. The topic discussed was strictly in accord with the title of "The History of Steam Boiler Construction," and very few modern boilers were included. The talk was enlivened with stories of many of his amusing experiences while working in the navy.

The lecture was started with the statement that one could get no adequate idea of the utter lack of application of the most common-sense principles in early boiler-construction unless he had read some of the testimony given before the British Admiralty when that body was investigating the causes of boiler explosions during the last century. At that time boilers were constructed without regard to getting the greatest strength with a given amount of material, and practically no attention was paid to ease of construction or freedom from frequent repair. Prof. Hollis said that they might be excused for their weak construction because the pressures used were very little above that of the atmosphere, but the apparent custom of designing a boiler for a minimum heating surface was almost inexcusable.

As was quite natural, the first boilers were simply modifications of the tea-kettle. Watt built one in the shape of a hemispherical vessel inside a fire box, with the stack directly over it. From this developed many types, some of which soon began to use the principle of the modern water tube boiler. A large number of slides were shown illustrating the innumerable "freaks" constructed during the first years of steam boiler development. There were boilers of every conceivable shape, and the idea seems to have been that the more tortuous the passage through which the products of combustion had to travel the more efficient the boiler would become. Some very amusing examples of this practice were thrown on the screen and included spiral and concentric water tubes, and even a wooden boiler built in America in 1800. As the next slide was shown, Prof. Hollis said that the British had outdone the Americans, however, for they had designed a granite boiler at about the same time.

Prof. Hollis then related many of his personal experiences. At one time, just after Farragut's flagship had been equipped with some boilers, in which there were a large number of stays for strengthening purposes, he went inside to inspect them. The stays all appeared in good condition, but as he was finishing his work he happened to grasp one of them, about an inch and a half in diameter, and

(Continued to Page 3.)

CALENDAR.

- Tuesday, March 18, 1913.
- 4.15—C. E. Society Meeting—11 Eng. B.
- 4.15—Tech Show Rehearsal, Principals and Understudy—Union.
- 6.00—Track Team Dinner—Union.
- Wednesday, March 19, 1913.
- 5.00—Cercle Francais—29 Lowell.

THE TECH

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TUESDAY, MARCH, 18, 1913

There seems to be a rather hazy rumor floating through the air that Tech men may have an opportunity to get opera tickets at a reduced rate, under much the same conditions that exist in Harvard. How many would avail themselves of this opportunity if it became a reality?

Is every man considering the new constitution for the "M. I. T. Undergraduate Association?" There are but a few weeks until it will be given to the student body for ratification or refusal, and there is no better time than now to form your opinions concerning it.

THE SOCIALIST CLUB.

There has been recently formed at the Institute a body known as the Political Engineering Club, whose purpose is to stimulate interest among Tech men in Socialism. With this movement we are heartily in sympathy, not because we are Socialists, but because we believe the Socialist movement to be one of the important political forces of the day, with which one should be familiar, whether a supporter or opponent of the Socialist Party.

SENIOR ELECTIONS.

(Continued from Page 1.)

Chairman of the Union Committee, came in tenth place.

Walter Byland, of Derby, Conn. was eleventh. His prominence in athletics has been noticeable, being on both Class Relay Teams, Varsity Track and Relay Team the last three years, a member of and Treasurer of the M. I. T. A. A. He was on the Technique Electoral Committee, and is in Theta Nu Epsilon, Osiris, and Sigma Alpha Epsilon.

The twelfth member of the committee is William N. Holmes of St. Clair, Pa. Holmes played an important part in the class during his entire course. In his Freshman year he was Class President and pulled on the Tug-of-War Team. Since then he has been a member of the Junior Prom Committee and is at the present time on the Senior Portfolio Committee. He belongs to the Round Table, Hammer and Tongs, Osiris and the Delta Upsilon Fraternity.

Joseph Strachan was thirteenth on the ballot. His home is on Long Island, N. Y. He was on the Relay Team in his Sophomore year as well as being a member of the Technique Electoral Committee. At present he is President of the C. E. Society, Class Secretary, a member of the Walker Club and of Delta Kappa Phi.

GRADUATES OF LYNN HIGH SCHOOL MEET

Organization of New Club Will Be Discussed at Meeting Tomorrow Noon.

The organization of a Lynn High School Club is being actively advocated at the present time by the Lynn men who are at the Institute. They have arranged to have a meeting tomorrow noon in 26 Rogers, and all men who have at any time lived in Lynn, and who are now at the Institute, are expected to attend.

There are about a dozen Seniors who came from Lynn who are backing the club, and they expect it to have an active membership of about thirty-five this year. The membership in the club will be open to men who are living in towns adjoining Lynn, such as Swampscott and Revere, provided that such men have attended either the Lynn English High or the Lynn Classical High.

This club will join the ranks of the High School organizations at the Institute. Four strong clubs are already in existence here, and they succeed in maintaining the spirit of fellowship which is usually associated with high school graduates. These clubs are the Mechanic Arts High School Club, the Boston English High School Club, the Chauncy Hall Club and the Brookline High School Club.

SOCIALISTS MEET.

Prominent Socialist Speaks on Vital Modern Question.

A large gathering of interested Tech men heard the talk on "The Ideals and Achievements of Socialism," given yesterday noon in the Union by Mr. Henry W. Laidler of the Intercollegiate Socialist Society. Mr. Laidler's impressive delivery made a favorable impression even on those who were opposed to his arguments.

The first part of the address was devoted to outlining the fundamentals of Socialism. Mr. Laidler explained how Socialism stands, not for opposition to all authority, but for exactly the reverse, subordination of each individual to one supreme authority, the common good. This shows the fallacy of the too common confusion of Socialism with Anarchy, its direct opposite.

Mr. Laidler next took up the tremendous increase of Socialistic influences during the last few years, in the domain of literature, in the trend of national thought, and particularly in voting strength. He gave statistics on the growth of the Socialist vote, showing how it had increased in a few years from a beginning of two thousand votes to nine hundred thousand in 1912.

At the close of the talk application blanks were handed out for membership in the new Political Engineering Club of the Institute. A number of these men were signed up. Another meeting will be announced shortly, at which a permanent organization will be effected. It should be clearly understood that all who are interested in the national questions of the day are welcome to attend.

Eugene MacDonald, of Montclair, N. J., the fourteenth member was Captain of the Class Cross-Country Team during his first two years, was on the Varsity Team as a Sophomore, a member of the M. I. T. A. A., and on the Technique Electoral Committee. He is a member of the Phi Sigma Kappa Fraternity.

The General Manager of the Tech Show, Robert W. Weeks, of Washington, D. C., a member of Delta Upsilon, was elected as fifteenth member of the Class Day Committee. He is Sec-

(Continued to Page 3.)

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SOPHOMORE BASEBALL PRACTICE BEGINS

Men Will Go Out to Field This Afternoon For First Time This Season.

The Sophomore baseball men will go out to the Field this afternoon for their first outdoor practice of the season. There was some hesitancy about having the men work out while the weather is still so cold. They have been at work in the Gym for some time so that there would not be much danger of the men being put out of condition by suddenly being obliged to undergo any great amount of physical exertion when the thermometer is low.

Manager Thomas has arranged a fine schedule, the first game of which is with the Allen School, on April 12. The schedule includes games with some of the strongest High and Prep School teams in this part of the State, besides a series of three games with the Freshmen.

The men of the class have given the baseball team great support. A very large number have reported for duty thus far, most of whom are new men. In all there have been over twenty candidates for the team, so the prospects for a crack aggregation are very hopeful. Manager Thomas desires that all men report this afternoon at the Field, at 3 o'clock, and bring their suits.

SENIOR ELECTIONS.

(Continued from Page 2.)

retary of the Finance Committee, a member of Osiris, and the Masque.

The sixteenth on the list is Harold Rand, Delta Chi, of Roslindale, Mass. He has been on the Institute Committee and a member of the Technique Electoral Committee.

Robert Bonney, a member of the Varsity Cross-Country Team, and of the M. I. T. A. A., took seventeenth place.

Max Waterman, of Somerville, Mass., received the eighteenth place. He was Manager of last year's Varsity Track Team, Treasurer of the N. E. I. C. A. A. last year, and a member of Technique Electoral Committee. He is now on the Class Executive Committee, and a member of the Phi Beta Epsilon Fraternity.

Henry Franzheim, of Wheeling, Va., is the nineteenth man on the list. He has also been on the Technique Electoral Committee. His prominence in the Muscial Clubs has been very noticeable. He was in the clubs his first three years, was treasurer his second year and general manager his third. He is in Theta Nu Epsilon, Osiris, and Phi Gamma Delta.

The twentieth man to be chosen is Henry O. Glidden of Cambridge, Mass. Glidden is a member of the Phi Kappa Sigma Fraternity, has appeared in the Tech Show Chorus, and is the winner of this year's Tech Show Poster Competition, and the ten dollar prize.

The twenty-first member is R. B. Haynes of Emporia, Kansas. He ran in the Relay Teams two years, is on the Senior Portfolio Committee, and is a member of the Delta Upsilon Fraternity.

The twenty-second on the list is Roland C. Thompson, of Winchester, Mass, and a member of the Theta Delta Chi Fraternity. He played on the Baseball Team in the first year, participated in Class Relay Races in his first and second years and was a member of the Varsity Relay Team and the Institute Committee in his Junior year. This year he is on the M. I. T. A. A.

Twenty-third man is Jose M. Cadenas of Havana, Cuba. He is a member of the Walker Club, Treasurer of the Cosmopolitan Club, and belongs to the Delta Kappa Phi.

Clarence Brett of No. Abington, Mass., is the twenty-fourth member of the committee. He has been on the

(Continued on Page 4.)

TRACK TEAM DINNER TO-NIGHT IN UNION

Tickets Going Fast for Big Affair—Great Enthusiasm Shown.

This evening, at 6.15, in the Union, the track team dinner will be held. As announced before, Captain Germain and Coach Kanaly will speak to the assemblage, and will represent the track team among the list of speakers. Two others will also speak, but the names of these men will be withheld until the time of the dinner. However, Captain Germain is certain to bring forth some one with some ideas well worth hearing.

Everyone will be fortunate to be able to attend the dinner, as plans will be announced, and the schedule given, for the season just now beginning, which will, in all probability, be the best in the history of the Institute. All the members of the team and the candidates will attend, and the affair will probably be one of the most enjoyable affairs of its kind which have been held this year. Great enthusiasm is now the only thing necessary to bring within the grasp of the Technology team the goal for which it has been striving for so many years. This goal, which now appears so near attainment, is the winning of the New England Inter-collegiate meet.

It is possible that at the dinner Captain Germain or Coach Kanaly, both of whom have been studying the situation for some time, will discuss the prospects for this meet, and such a discussion alone should bring out a crowd sufficient to fill the Union to the uttermost. The tickets have been going like hot-cakes, and it behooves the students to get into action immediately and corner some of the following men, from whom tickets may be obtained: J. M. White, manager; W. S. Thomas, assistant manager; E. B. Germain, captain, and D. B. Webster, 1916, manager. If any fellows are unable to see these men any track man will be delighted to obtain a ticket for them. The modest price of fifty cents is being charged, and the dinner will commence at 6.15 sharp.

M. E. MEETING.

(Continued from Page 1.)

very easily broke it. Upon further investigation it was found that, as the stays gradually corroded, they had been replaced with scale so that the extremely dangerous condition of the boiler had not been noticed. This brought out the point that the least number of parts exposed to corrosion should always be the aim of the designer, which fact is especially true of marine boilers, where sea water with its bad effects must be used. The speaker also told of seeing a chimney in Spain reaching 755 feet above the level of the grates. This marvel was accomplished by building a flue up the side of a nearby hill to a short stack on its top. He said that one of his pupils had recently proposed regulating the draft by building a stack in sections, any number of which could be used, thus varying its effective height—which proved that some engineering students are not all as practical as they might be. Slides of locomotive boilers in the various stages of their development, and of some early attempts at steam automobiles, were also shown.

The point most emphasized by Prof. Hollis was the design of a boiler for maximum strength heating surface. He said that it was much more important to have ample water surface where the steam could escape than a large steam dome or other reservoir. Ease of construction, a minimum number of joints, and accessibility should also be the aim of designers. In closing he said that he hoped he had shown the Institute men what not to design rather than showing them the best methods employed at present.

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EPISCOPALIANS MEET.

The Tech chapter of the Brotherhood of St. Andrew are holding special short services every evening this week. This being Holy Week, it has been appointed a special week of prayer for all the chapters, the Tech chapter holding their meetings at 7.15 and continuing them about twenty minutes. The meetings are being led by Mr. Kneeland, whose services are appreciated by all who know him. All Tech Episcopalians are earnestly requested to attend these meetings.

FACULTY NOTICE.

Fourth Year Hydraulic Engineering, Course VI. Sections 1, 3 and 5, will meet Wednesdays at 10 o'clock, in 30 Lowell, beginning March 19th, and on Saturdays, in 21 Engineering A, as usual.

WALTER HUMPHREYS,
Registrar.

PRINCIPLES AND APPLICATIONS OF ELECTROLYSIS (804).

This course of six experimental lectures will be given on Monday afternoons, at 4.05 o'clock, in Room 23, Walker, beginning Monday, March 17th.

The course is elective and open to second, third and fourth-year students. No examination is required.

H. M. GOODWIN.
March 13 1913. (1 week)

SENIOR ELECTIONS

(Continued from Page 3.)

Class Tug-of-War Team, President of the T. C. A., Secretary of the Finance Commission, and is a member of Delta Kappa Phi.

Allen Brewer, of West Orange, N. J., took the last place on the committee. He has been on the Technique Electoral Committee, and is on the Portfolio Committee at present.

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