

THE TECH

VOL. XXXIV. NO. 46.

BOSTON, MASS., WEDNESDAY, OCTOBER 14, 1914.

PRICE THREE CENTS

CROSS COUNTRY MEN AT HIGHLAND TODAY

Men To Leave Back Bay At Four-Thirty—Run Over The Tech Course.

The Hare and Hounds Club and all the members of the cross country squad will run over the Tech Course this afternoon and will leave Back Bay at 4.30. The course starts at Highland, West Roxbury, and finishes

(Continued on Page Three)

COSMOPOLITAN CLUB

Smoker Tonight In The Union—Foreign Men Invited.

This evening at eight o'clock in the Union, the Cosmopolitan Club will hold a smoker and social as its first meeting of the year.

(Continued on Page Five)

MECHANICAL ENGINEERS

The first meeting of the Mechanical Engineering Society for this season will be held at eight o'clock this evening, when the members will meet as guests of the Boston branch of the American Society of Mechanical Engineers in the Engineers' Club Hall on the corner of Arlington street and Commonwealth avenue. The subject under discussion will be the measuring of the flow of fluids such as water, oil, steam and gas, that are employed in engineering practice. Slides of the more important types of apparatus will be shown and described by experts, Mr. Frederick N. Connet, chief engineer of the Venturi Department Builders' Iron Foundry Co., Providence, R. I.; Mr. E. L. Brown of the General Electric Co., Boston, and Mr. D. R. Yarnall, treasurer of the Yarnall-Waring Co., of Philadelphia.

INSTITUTE COMMITTEE

There will be a meeting of the Institute Committee in 8 Engineering C at 4 o'clock on Thursday afternoon.

TECHNIQUE NOTICE

Business Manager Shepard will meet all men who wish to come out for the competition for Assistant Business Manager of Technique 1916 in the Technique office today or tomorrow from 1.30 to 2.00 when he will be glad to explain the details of the work to any 1916 man who desires to compete.

ELECTRICAL ENGINEERS RECEIVED JUNIORS

Proposed List Of Trips Announced Last Night When Tech Professors Spoke.

The Electrical Engineering Society held a reception to the Juniors last night in the Union.

Pres. Boynton introduced the speakers, the first of whom was Prof. Wickenden. He urged co-operation between the class and professor and spoke of the need of men joining the

(Continued on Page Six)

SENIOR NOMINATIONS

Nomination For Officers Of Class Of 1915 Due Friday.

The Senior nominations are due at the Cage Saturday at a definite time which will be announced in Friday's issue of THE TECH. The officers of the class are President, Vice-President, Secretary, two members of the Institute Committee, two members of the Executive Committee, and two members of the M. I. T. A. A. Under the new Uniform Class Constitution the office of clerk is no longer in existence. With the assumption this year of many new duties, the M. I. T. A. A. will be a very important student organization, and it is expected that membership in this body will be as eagerly sought for as membership in the Institute Committee.

ATHLETIC MEETING

There will be an important meeting of the Athletic Association today in Room 8, Engineering C, at 5 p. m. All class representatives of last year and the captains and managers of the track, wrestling and hockey teams are requested to be present at this meeting.

MANAGING BOARD

A meeting of the Managing Board of THE TECH will be held today, Wednesday, at 1 p. m. in the Upper office.

TALK ON INDIA

Dr. William Hunter and Mrs. F. Bullock-Workman will speak before the Appalachian Mountain Club in Huntington Hall tonight, on their exploration of the Hispar Glacier in Cashmere, India. The talk will be a record of explorations of great geographic and geologic interests. The talk is open to all Technology students.

MR. TOWSON TO SPEAK AT T. C. A. MEETING

Will Talk On "Human Side of Engineering" at Union Friday Noon.

Mr. Charles R. Towson, who is to be the first T. C. A. speaker this year, is the head of that department in Y. M. C. A. work which probably has more to do with college men than any other particular branch of the work. Under his supervision comes the instruction of foreigners and working men. Men from Columbia, Harvard, Williams, Brown, Pennsylvania, Northwestern and other colleges are teaching educational classes in labor unions, talking in shop meetings, or

(Continued on Page Five)

MUSICAL CLUBS

Mandolin and Glee Clubs Hold Smoker Thursday Night.

The Musical Club rehearsals started yesterday with that of the Mandolin Club. The twenty-two men who were present entered into the work with enthusiasm and gave every promise of developing into a better club than ever. Leader King told the men that they might expect a cut soon and that in addition to good playing a regular attendance was very important.

The Glee Club has received music which will be practiced this afternoon. A meeting of the combined clubs will be held Thursday evening at 7.30 in the Union when free smokes and eats will be provided. Manager Abrams will tell the men the plans for the coming season. A chance will also be given for all members to sign the constitution.

GYM TEAM

Men interested in the formation of the gymnasium team will meet today at 5.30 in the Union. Candidates for this team will be excused from the regular gymnasium work. The men will report to Coach Kanaly Thursday at five o'clock for practice at the Gym.

TRACK NOTICE

Candidates for the office of assistant Varsity Track Manager are to meet today in the Track office at the Union both at one o'clock and at four. It is considered very essential that all candidates keep up in their studies as there have been times in the past when the question of scholarship has decided the appointment.

FRESHMAN COMPETITION STARTS FRIDAY

Publicity Manager Lucas To Outline Work Of His Department Of Show.

Freshman candidates for Assistant Publicity Manager of the Tech Show will meet Publicity Manager Lucas in the Tech Show office Friday, between one and two o'clock. An assignment will be made at that time and the

(Continued on Page Three)

FRESHMEN WRESTLING.

Candidates For Squad Report This Afternoon At Gym.

Beginning today, freshmen members of the wrestling squad are expected to report three times a week for practice. The regular afternoons are to be Monday, Wednesday and Friday from four to six. At these times, Mr. Gracy of the drawing department will be on hand to illustrate the different holds and supervise the practice. The men are supposed to work three hours a week and get excused from gym work, by so doing if they make good. All men are to practice until November first. At that time the squad is to be cut and elimination bouts held so that the best men make the team. Then these men become members of the regular squad and are excused from gym work for the rest of the year.

CALENDAR

Wednesday, October 7, 1914.

- 1.00—Managing Board of the THE TECH. Upper Office.
- 1.30—Candidates for Assistant Business Manager Technique. Technique Office.
- 4.00—1918 Tug of War. Gym.
- 4.00—Freshmen Wrestling Candidates. Gym.
- 1.00 and 4.00—Candidates for Asst. Track Manager. Track Office. Union.
- 4.30—Hare and Hound Run. Lv. Back Bay.
- 5.00—Athletic Association Meeting. 8 Eng. C.
- 5.30—Candidates for Gym Team. Union.
- 8.00—Cosmopolitan Club. Union.
- 8.00—Am. Soc. Mech. Engineers. Engineers Club Hall (Arlington and Commonwealth).
- 8.00—Appalachian Mountain Club. Huntington Hall.

Thursday, October 15, 1914.

- 4.00—Institute Committee. 8 Eng. C.
- 5.30—Gym Team Practice. Gym.
- 8.00—Combined Musical Clubs. Smoker. Union.

Candidates For Assistant Track Manager----Today

THE TECH

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

Published tri-weekly during the college year by students of the Massachusetts Institute of Technology.

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Subscriptions within the Boston Postal District, and outside of the United States, must be accompanied by postage at the rate of one cent a copy.

WEDNESDAY, OCTOBER 14, 1914

IN CHARGE OF THIS ISSUE,

Editor, H. E. Lobdell, '17.
assistants: J. G. Fairfield, '16; A. E. Keating, '17; F. A. Stearns, '17; R. E. McDonald, '17; J. C. Purves, '18.

The invitation extended in this issue to visit the Boston Y. M. C. A. should interest every Tech man. The tank and gymnasium alone afford the opportunity for recreation, exercise and rest from the grind of studies which is essential to physical and mental health, while the other departments of the organization's activity are no less valuable in other ways.

The procuring of this invitation for us is an added instance of the active part which the T. C. A. under its new secretary, Mr. Cushman, is taking in Tech life.

We notice that a great many of the Freshmen are not attending the interesting and instructive lectures on personal hygiene given by Dr. Rockwell in Huntington Hall, Thursdays, from four to five. These talks should be well attended by all classes, for the material in them cannot well be obtained from other sources. Every man should be willing to spend an hour a week for a few weeks, in learning something which will benefit him materially all his life.

Candidates for Assistant Track Manager. Track Office. One o'clock and four.

Gym Team Practice starts tomorrow at five-thirty.

ENGINEERING AND SCIENTIFIC NOTES

The tungsten resources of the United States are probably considered larger than have been generally realized. Many new deposits have been discovered in various parts of the western states, according to the United States Geological Survey, and, should prices advance, it is probable that the output could soon be increased much above the record year of 1910, when 1821 tons were marketed. An American consul at Seoul, Korea, states operation has been begun in the rich tungsten mines in the eastern part of Chosen. The estimated value of the ore is \$400 per ton.

It is understood that the organization committee of the International Electrical Congress has recommended an indefinite postponement. The Congress was to have been held at San Francisco next year during the Panama-Pacific Exposition. No official announcement of the postponement can be made until the ratification of the recommendation of the organization committee by the Board of Directors of the American Institute of Electrical Engineers at its regular October meeting.

Professor Delorme, medical inspector-general of the French Army, reports that an electromagnet, having lifting power of more than 2530 pounds, is successfully used in extracting bullets, with or without anesthesia, at a distance of over four inches from the surface.

It has been estimated that the waterfalls of Sweden are capable of developing 6,000,000 horsepower, of which only about one-sixth is now utilized in hydroelectric plants.

FACULTY NOTICES

SECOND YEAR GERMAN, COURSE 1, SECTION 2—It is necessary to change the exercise in German for Section 2 of Course I back to the original hour of Monday at 2 p. m.

ELEMENTARY FRENCH—The hours for the course will be Monday 11.00, Wed., 12.00, Thurs., 3.00. Rooms announced on Lowell Bulletin.

LECTURES ON INTERNAL COMBUSTION ENGINES—A course of lectures on internal combustion engines will be given by Professor Riley in Room 20, Eng. B, on Wednesday afternoons at 2 o'clock, beginning October 7.

This course is open only to students who have completed one of the Institute's regular third year courses in Heat Engineering, or the equivalent thereof. Registration not required.

CONSULTATION HOURS—Students wishing to consult the Secretary (Professor A. L. Merrill) are requested to call during his office hours,—which are from 1.30 to 2.30 p. m. on Mondays, Wednesdays, and Fridays, and from 10.30 to 11.30 on Tuesdays and Thursdays.

Technique. 1.30 p. m. Technique Office.

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SHOW COMPETITION
(Continued from Page One)

competition will start immediately. Its duration will depend largely upon the number and ability of the men who come out.

Experience is not necessary, as the competitors will be judged by the manner in which they perform the work assigned them. All members of the class of 1918 are eligible. Anyone interested who is unable to be at the Show office Friday between the hours of one and two should leave a note there for Manager Lucas.

HARE AND HOUNDS
(Continued from Page One)

at the old Tech Field where the men go around the oval once, making a distance of about four and a half miles. The dressing rooms at the Field are not at the disposal of the team but arrangements have been made with the Brookline gymnasium and the squad will jog there after the finish of the run where showers will be at their disposal. All men are to take suitcases so that clothing can be transported to the gym at Brookline, where they will find it waiting for them.

The fare, including the cost of bringing the suit cases from Highland to Brookline will be twenty-five cents. Tickets can be obtained from the chase captain at the train. Hare and Hound Club dues of fifty cents can also be paid to the chase captain at that time. Dues must be paid before men can run in the handicap cup race at Wakefield which may be held next Saturday.

TENNIS DRAWINGS

The following are the drawings in the Tennis Tournament, which were omitted on account of lack of space in yesterday's issue: M. P. Curtis '16 vs. W. Robinson '17; Bruchhausen '17 vs. A. W. Mack '15; L. R. Groves, Jr., '18 vs. E. C. Layng, '18; D. A. Tutien '17 vs. D. E. Woodbridge '16; C. W. Howlett '15 vs. J. Gore '16; Max Seltzer '18 vs. L. S. Hibbard '18; R. B. Willis '18 vs. E. J. Polley '17; A. Page '16 vs. E. H. Neumann '15; W. H. Robinson '18 vs. E. M. Hayden; D. Kendall '18 vs. E. S. Parson '16; L. S. Clark '18 vs. W. P. Sprague '18; J. H. Sullivan '18 vs. W. C. Foster '18; J. B. Carr '16 vs. W. A. Futterer '17; R. H. White '16 vs. L. Stone '16; R. E. Wilson '16 vs. J. L. Kingsbury '18; P. M. Dinkins '18 vs. E. D. Sewall '17; F. A. Birmingham '18 vs. J. C. Richardson '17; I. McDaniel's vs. H. V. Kaler '18; T. C. Eveleth '18 vs. H. R. S. Stewart '16; G. B. Smith '18 vs. L. J. Bengtson '15; H. R. Sanger '18 vs. O. W. Halt '18; F. S. Hubbard '18 vs. C. E. Low '17; R. R. Cleveland '18 vs. A. K. Atkins '17; R. O. Lowengard '17 vs. J. B. Wirt '17.

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STATISTICS ON SCHOLARSHIPS GIVEN OUT

One Student Out Of Five And One-Half Aided By A Scholarship Grant.

In view of the prominence given to scholarships at Technology by the discussion of the matter in Cambridge, the recent report of the Committee on Scholarships with its statistics becomes a matter of present interest. It is interesting to realize, for example, that one student out of every five and one-half is aided by a scholarship. In view of the large figures in salary that come to so many within a few years of graduation, such statistics are of great value for a gauge of the capital that an education in a technical college represents. In the past year the sum of money expended by the Institute is nearly \$23,000.

The number of grants has increased a little more rapidly than the total registration of students. In 1907-08 approximately one student in every 6.6 received a grant, and in 1912-13 the proportion was one to every 5.5. It may be thought that this increase has been due to a lowering of standard by the scholarship committee, but such suggestion is not true. The amounts awarded from Institute funds for this purpose have increased from \$20,437 in 1907-08 to \$22,652.50 in 1913-14.

Thirteen per cent of the scholarships in 1912-13 were granted to freshmen. It has occasionally been questioned whether it is prudent to give such aid to first-year students. As throwing light on this question the committee says that there is some risk in selecting students early in the course, but examination of the records show that the judgment of the committee, on the whole, has not been misplaced. Of the 17 freshmen in the class of 1911 who received some aid in the year 1907-08, all but one graduated. The exception left during the first term of his third year in good standing as far as his studies were concerned. And so in the class of 1912, there were 25 freshmen aided from the Institute funds; and of these 22 graduated. As evidence of the effort of the committee to maintain a high standard of scholarship as a condition of receiving a grant, 12 of the awards for the second term were made subject to good records to be secured during the first term. Eleven of these students fulfilled the conditions.

FRESHMAN FOOTBALL

Twenty-five freshmen reported for football practice at the Y. M. C. A. field yesterday. The team was put through a sharp scrimmage, and the coach was pleased with the way the fellows are worked. He thinks that the material is very good and now that the men are reporting regularly expects results that will be gratifying in the next several weeks. The acting manager would like to see twice as many men out for the team, and would like any fellows who can play football to report to him at the gymnasium.

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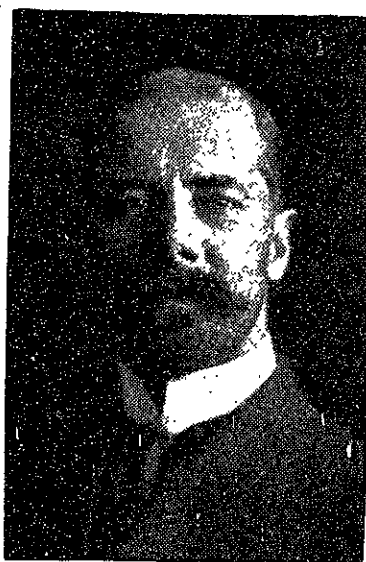
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LECTURE ON PERSONAL HYGIENE TO BE GIVEN Y. M. C. A. RECEPTION THURSDAY NIGHT

Dr. J. A. Rockwell Talks To Freshmen On Thursday At 4 O'clock. The Opportunity To Inspect Plant Offered To All Tech Students.

Dr. J. Arnold Rockwell, the substitute physician, will deliver the third of a series of talks on personal hygiene, tomorrow at four o'clock in Huntington Hall. These annual lectures are intended primarily for freshmen and it is required by the



DR. J. A. ROCKWELL

Tomorrow evening from eight to ten o'clock the Boston Y. M. C. A. will hold open house. Their card of invitation states that it is "your opportunity to witness a complete demonstration of the working of the finest association plan in the world." At that time there will be open for inspection a gymnastic and aquatic exhibition, moving picture entertainment, Camera club exhibit, educational classes in operation, orchestral concert, boy's work, dormitories, game room, squash and hand ball courts, bowling alleys, restaurant, religious work, law and general library.

There are many Tech men rooming in the building and many more who make use of and enjoy the privileges offered. The tank is probably one of the greatest attractions, while the game rooms and gymnasium privileges are nearly as strong a drawing card. The Y. M. C. A. extends to every Tech man a personal invitation to be present.

Gordon McKay Professor of Metallurgy; Albert Sauveur, Professor of Metallurgy and Metallography; George Sharpe Raymer, Assistant Professor

of Mining; Charles Henry White, Assistant Professor of Mining and Metallurgy; Louis Caryl Graton, Professor of Mining Geology.

The non-attendance has been laid to the fact that the importance of the talks is not fully understood. The subjects dealt with are of vital interest to every undergraduate and are somewhat preliminary to the required gymnasium work of the first year.

ALLIANCE INSTRUCTORS

In accordance with the agreements for co-operation between Technology and Harvard, fifteen of the Harvard professors are to be added to the Institute Faculty this year. Their names and departments are the following:

Department of Electrical Engineering—Arthur Edwin Kennelly, Professor of Electrical Engineering; Harry Ellsworth Clifford, Gordon McKay, Professor of Mining and Metallurgy; Edward Dyer Peters, Professor of Electrical Engineering; George Chandler Whipple, Professor of Sanitary Engineering; George Fillmore Swain, Gordon McKay, Professor of Civil Engineering; Lewis Jerome Johnson, and Hector James Hughes, Professor of Civil Engineering.

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COSMOPOLITAN CLUB
(Continued from Page One)

Prof. Robinson of the English Department will be the chief speaker of the evening; Dean Burton and Prof. Seaver will also give short talks.

The main idea of the social is to welcome the new foreign students at the Institute, and to give them an opportunity of meeting the other students from foreign lands. American students are also invited to be present and assist in making the affair a success.

The officers of the club hope that a large majority of the new men will take this opportunity to come out and acquaint themselves with the good fellowship open to members of this society.

Candidates for Assistant Business Manager.

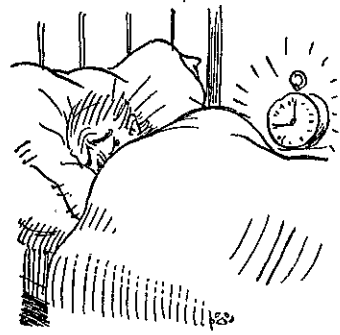
T. C. A. MEETING
(Continued from Page One)

leading clubs of working boys. There are now 3500 students from 160 colleges engaged in forty varieties of volunteer service for industrial men and boys.

It is this work, bringing him into contact with both the college man and the working man, that enables Mr. Towson to present a subject of interest to all engineering students. Mr. Towson's talk will be on "The Human Side of the Engineering Profession" and will take place in the Union Friday at one-thirty p. m.

Should any professional society desire to secure Mr. Towson as a speaker, Mr. Cushman in the T. C. A. office will be glad to give them any information on the subject.

1918. Tug of War. Gym. 4 o'clock.



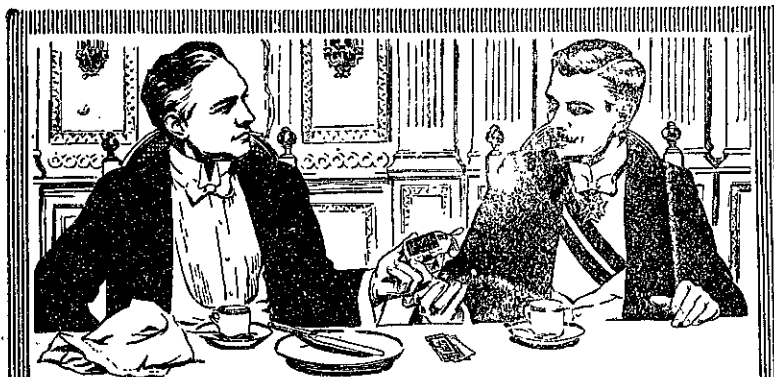
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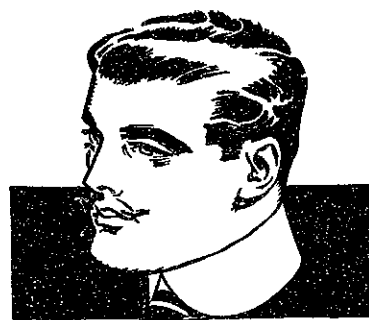
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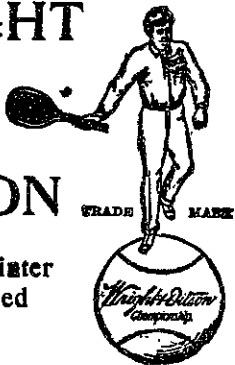
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**CIVIL ENGINEERING
SOCIETY MEETS FRIDAY**

**Smoker To Be Held In Union—
Prof. Swain Of Harvard
Will Speak.**

The first meeting of the Civil Engineering Society will be a smoker to be held in the Union on Friday evening, October 16th, at 8 p. m. The speaker of the evening will be Prof. George F. Swain, head of the Civil Engineering Department of Harvard University, and formerly in a similar position at the Institute. His subject will be "The Harvard Side of the New Tech Alliance," with special reference to Civil Engineering. He will be introduced by Professor Spofford after the regular business of the meeting has been transacted. About seventy-five new men are to be voted in, and the question of changing the size of the pin will be brought up.

After the meeting refreshments will be served in the small rooms of the Union. Smokes will of course be circulated throughout the meeting. Arrangements have been made for about a hundred men, and all interested are invited by the Society to attend.

CHESS CLUB MEETING

**Officers For The Year Elected
At Meeting Friday.**

On last Friday afternoon a meeting of the Chess Club took place. The following officers for the coming year were elected: President, D. E. Woodbridge, '16; Vice-President, J. A. Tobey, '15; Secretary-Treasurer, E. H. Newmann, '15. The following men comprise the Executive Committee: D. E. Woodbridge, '16, J. A. Tobey, '15, E. H. Newmann, '15, C. Dean '16, T. R. Johnston, '15, and Johansen '16. This year Technology will have an exceptionally strong team as only one man was lost through graduation. Matches are to be arranged with Harvard, Brown and Tufts.

Hare and Hounds. Leave Back Bay at half past four.

ELECTRICALS MEET
(Continued from Page One)

Society. After the report of the Secretary an announcement was made of the exchange between the E. E. Society and the Civils, in the matter of invitations to trips, etc.

Mr. Nelson, Chairman of the Entertainment Committee gave a list of the prominent men, who are to address the society this year, and requested that men of the upper classes who are doing research work would speak at the meetings.

Nominations for Vice-President and Treasurer are due at 4 o'clock Tuesday, October 20. Prof. Jackson told of the great value of joining the Society. Prof. Kennelly, director of Research Department, spoke of the work of the Research Department and other matters. Following the speaking refreshments were served.

A provisional list of the trips to be taken this year was announced, including the following plants: the General Electric Company of Lynn, the Watertown Arsenal, the Fore River Ship Works, the Boston Telephone Exchange, the Simplex Company, the Robb Engineering Company, the Boiler Works at South Framingham, the Holzer Cabot Plant, the Interlocking Switch System of the B. & A. at the South Station, the Stewart Street Sub-Station, the O Street Station of the Boston Elevated, a battleship at the Navy Yard, the Wood Textile Mill at Lawrence, and a one-day trip to Worcester with a visit to the Stewart Boiler Company, the American Steel and Wire Company, and the Connecticut River Power Plant at Clinton.

GLEE CLUB MEETING

The Glee Club held a short business meeting at the Union yesterday afternoon, at which the parts were given out and the time for rehearsals set for Monday and Wednesday at 5.00. Notice was given of the Combined Musical Clubs Smoker Thursday night at the Union, when Abrams, '15, the General Manager, will outline the February trip of the Glee Club.

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