Tomorrow Night in the Union—All Men From Courses VI and XIV.

The members of the Electrical Engineering Society will hold a reception to the Juniors and Sophomores of Courses VI and XIV at the Union tomorrow evening at 8 P.M. A number of speakers from the Faculty and Senior classes will be present. The President of the Electrical Engineering Research Department will speak on the "Objects of the Electrical Engineering Research Department," and Professor Jackson will talk of "Relation of the Society to the Institute."

The purpose of this reception is to acquaint the members of these two courses with the advantages of membership, although Sophomores are only admitted to assume membership in the real advantages are open to them. They enjoy the lectures and are entitled to all the excursions of the society. They are not given a right to vote in their Sophomore year, but may do so upon becoming full members in their Junior year. Membership of the society, which would otherwise be closed, and thus the benefits are obvious.

All those attending may be sure of a hearty welcome and a probable evening.

C. E. SOCIETY BALLOTS

In yesterday's issue of THE TECH the statement was made that the C. E. Society and the C. E. nominations should be handed in their names for entrance in the Freshman Relay, which will be held Thursday at 4.30 in the Union. The following committees, appointed last year, will be present to report The Point System Committee, the Bulletin Committee, and Union Committee.

FRANKLIN RELAY

The papers must be signed by at least nine members of the class who have had a regular term and must be signed by the following committees: Institute Committee (two), Institute Committee (two), Athletic Association (two). The papers will be due October 11 at 1.00 P.M. The officers are due October 11 at 1.00 P.M. The officers are due October 11 at 1.00 P.M.

COBHAM DAY RACES

Yesterday afternoon the following men reported at the Boat House and took the first practice row: Todt, T. Whittemore, az. MacKee, zae. Sinke, stroke and Candy, coxswain. At present the object of the club is to enter as many men as possible in the Cobham Day races, which will be held next Monday afternoon. So far several men have handed in their names for entrance in races. All applications should be in before today at 4 P.M. Left at the Cape added to Eugene Lucas Jr.

FRANKLIN TUG-OF-WAR

Place of Practice Announced—Course Irregular.

Manager Wood wishes to announce that practice for the Franklin tug-of-war team will be held at a dock every day. Today it will be held at the Oval. Thursday the practice will be back at the Owl and again at the new plant. Again the Gym and Friday at the Oval again team seems to be irregularity. The men who want to qualify for the team should realize that regular attendance and hard work are great factors in determining the final makeup of the team.

Number one for the Athletics.

FIRST T. C. A. TALK

Dr. George A. Crawford to Speak on "Why Doesn't God Forgive Everyone?"

Tomorrow noon the first of the weekly talks held under the auspices of the Technology Christian Association will be held in the Union. This will be the first opportunity for the new men at the Institute to be present at one of these talks, and the T. C. A. has secured an excellent and popular speaker to start the series. The speaker will be the Rev. Forrest A. Crawford, Chaplain U.S.N. (Retired). Dr. Crawford is one of the best known educators in the country and his addresses have been published in many journals and periodicals.

Rev. Mr. Crawford spoke last year in the Union and spoke on "An Unanswerable Question" and we have spoken on the subject, "Why Doesn't God Forgive Everyone?" Dr. Crawford needs no enforcement in the minds of Tech men. He is a man who would be well known to most of the students. The talks are held in the Union every Thursday, at 1.30, and all are well attended by the students at large. The T. C. A. will be glad to have speakers present who are interested in subjects relating to the practical side of life, and on the various social problems of the day. The talks is in themselves an education, and much education is gained from them. The fact that they are popular with the students was shown last year by the large attendance at the meetings.

The T. C. A. hopes to see a large number of the Freshmen at tomorrow's meeting, at 1.30 in the Union, and the Association hopes that the men of '17 will give the talks their full support.

INSTITUTE COMMITTEE

There will be a meeting of the Institute Committee on Friday afternoon at 4.15 in Room R Eng. C All new representatives are required to be present. The following committees, appointed last year, will be prepared to report The Point System Committee, the Bulletin Committee, and Union Committee.

-talk On This Year's Work Today at 4.30 in Union.

Many Interesting Entertainments Provided For—Foreign Men Invited To Come.

There will be a reception of all foreign students by the Cosmopolitan Club Friday night at 7:45 in the Union. The reception will be conducted as an informal smoker in order that it can be a real get-together meeting and everyone may feel at home. The purpose and aim of the club will be explained and the activities in which it enters will be fully discussed. Songs, dances, and entertainments will also assist greatly in making a very pleasant evening.

The officers of the club have asked several of the Technology professors to talk on subjects which shall be of interest to the men from the various countries represented. Inside the club there is much talent, and men from all parts of the world will entertain in a manner characteristic of his own nation. The Chinese members have enjoyed and amused the crowd with their skillful straight-side-band performances on many occasions.

The Cosmopolitan Club is one of the foremost activities at Technology, and an activity which every foreign student wants to do well to join. Here one can meet men from nearly every country of the world. The advantages of such contact are invaluable. The club extends a cordial invitation for the reception Friday night to all the foreign students at the Institute.

MUSICAL CLUBS' MEETING

Talk On This Year's Work Today at 4.30 in Union.

The talk which is given to the M. I. T. Combined Musical Clubs for the benefit of the old members, and enlivenment of the new men who expect to join, will be held at 4.30 this afternoon in the Union. The plans for the coming year will be outlined, the rather extensive trips, which the Musical Clubs expect to make this year being discussed.

The mandolin and banjo trials will be held Thursday afternoon at 4.15 in the Union. Anyone who knows how to produce a note on an instrument called to the banjo or mandolin is welcome. It is also hoped that a large number of candidates will be on hand for the Glee Club trials to be held in the Union on Friday at the same time. President Taylor and General Chairman Sallie Atwater desire to have the Clubs as large as possible; as it is believed that better results are then possible.

SENIOR NOMINATIONS

Nominations for the Senior Class Officers are due October 11 at 1.00 P.M. The officers to be filled are those of President, Vice-President, Secretary, Treasurer, Executive Committee (two), Institute Committee (two), Athletic Association (two). The papers must be signed by at least five members of the class who have paid their dues. The Election Committee desires to have at least two nominees for each office.

MEMORIAL PRESENTED TO THE INSTITUTE

In a recent issue of THE TECH the statement was made that the C. E. Society and the C. E. nominations should be handed in their names for entrance in the Freshman Relay, which will be held Thursday at 4.30 in the Union. The following committees, appointed last year, will be present to report The Point System Committee, the Bulletin Committee, and Union Committee.

FRESHMAN RELAY

Up to the present season seventeen men have reported for practice at the Field. The men who have been out so far are Angell, Barnard, Briggs, Brown, Cady, Ford, Fried, Garden, Quillot, Sullivan, Todd, Winton, Arkin, Fahn, C. W. Putterer, and Stanmore. Considering the poor weather conditions of the last few days, Argonaut is a pretty poor showing, but there is room for about three times as many. The preliminary tryouts come in about three weeks, on the 20th. This makes it necessary for the men, who have serious intentions of trying out for the team, to get in a regular and two substitute positions to be filled, so there is a chance for the men who are trying out to feel out the field, and they will find Coach Puddy and Manager Fried any afternoon.
THE TECH

Published daily, except Sunday, for the benefit of students of the Massachusetts Institute of Technology.

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Engineers and Scientific Notes

Cassier's Engineering Monthly for September contains a very interesting account of a gigantic power plant under construction at Keokuk, Iowa. This plant is located at the foot of the Des Moines Rapids, where the energy of a very large body of water falling a moderate distance of from 30 to 40 feet is to be converted into 40,000 horse-power of electrical energy. In order to make possible the utilization of the entire flow of the Mississippi, a dam over 4,000 feet long has been constructed perpendicular to the line of flow, and adjacent to this is perhaps the largest power house in the world, measuring 1400 by 122 feet. The power is developed from the falling water in turbines of the well-known Francis type which have a capacity of 10,000 H.P. each. These machines are driven at a moderate speed and are built on the "reaction" pattern which has proven more efficient in the existing conditions than the "impulse" turbines which operate as well with a small body of water having a large head. Coupled directly to the turbines are the generators in enormous machines some 31 feet in diameter and standing over 11 feet in height.

The distribution of this energy once it is generated presents in itself a difficult engineering problem. The nearest large city is St. Louis, 144 miles away, and the energy is to be transmitted thence at a potential of 110,000 volts along wires supported by steel structural towers. Here is a step towards conservation and a powerful attempt to make harness the forces of nature. To quote, "The mighty Mississippi River is to be harnessed to the mechanical devices of civilization just as truly as ever a work horse was harnessed to plow or wagon."

The article is illustrated by several excellent photographs and drawings.

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Antimony a By-Product

While no antimony was produced in the United States last year from domestic ore, a considerable quantity was saved in the form of antimonial lead, which is obtained at the smelters of precious metals in the course of their operations, and large quantities of antimonial alloys are recovered from secondary sources, such as scrap bearing and type metals, solder, and antimonial lead dressers. From antimonial lead of both domestic and foreign origin but smelted in the United States, according to figures compiled by the United States Geological Survey, 1,894 short tons of antimony were produced, while from old alloys, scrap, dress, etc., 2,500 short tons of antimony were recovered.

Frank Kausly is expecting the first freshman relay team of recent years.

A few interesting brushes are beginning to appear on the track.

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MR. GEORGE ARLISS
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TECH AND WALKER CLUBS RECEIVE COLLEGE MEN
Successful Entertainment Given at Technology Club—Good Speeches.

The reception given yesterday evening by the Walker and Technology Clubs to men from other colleges at the Institute was attended by at least a hundred guests, besides about fifty of the club members. At 8:30 E. L. Snow, president of the Walker Club, opened the evening with a short address of welcome and explained the nature and purpose of the Walker Club. He then introduced Professor C. W. Doten, vice-president of the Technology Club, who gave a short talk, setting forth the advantages of the club and extending a cordial invitation to the new men to join.

Dean Barton was then called upon for a short address, which was received with the usual enthusiasm, after which Professor Arlo Bates then spoke at slightly greater length and with his usual humor. The men then adjourned to the dining room to partake of some light refreshments and to get acquainted.

WRESTLING SQUAD
Freshmen Should Come Out For Practice At Once.

The Institute Wrestling Team is again looking forward to another season as successful as last year. A large number of last year's team is back and several of the substitutes also. The men are already practising every afternoon at the Gym from 4 to 6. The Freshmen this year will not be allowed to substitute wrestling for gym work unless they make good or show interest. Smythe-Martin, the wrestling team manager, advises all Freshmen who intend to substitute wrestling for gym work to come out at the present time so that their chances of remaining on the squad will be better. The 'Varsity schedule has not been arranged as yet, owing to the fact that the other teams and clubs have not started to make up theirs.

FACULTY NOTICES
All commissioned officers and volunteers for commissioned offices in the Cadet corps will meet Wednesday at 3 P. M. in South Armory for instruction.

E. T. Cole, Major U. S. Army, will meet in 25a Lowell, will meet in 21 Engineering B.

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The Lemelson-MIT Program awarded its annual Student Prize Tuesday, recognizing promising inventors from across the United States. Six MIT students were among the winners announced. Thirteen faculty from twelve departments gave snapshots of their current research ranging from studying financial systems based on mobile phones in Africa to finding genetic pathways to improve the efficiency of biofuel production at a symposium on the future of MIT research, MIT’s Frontiers of the Future, April 11. The Tech Interactive (previously The Tech Museum of Innovation), commonly known as The Tech is a science and technology center in San Jose, California, in Silicon Valley. It is located adjacent to the Plaza de César Chávez in Downtown San Jose. The Tech Interactive’s architecture is the work of Mexican architect Ricardo Legorreta. The front wall is inscribed with quotations from iconic Silicon Valley entrepreneurs Bill Hewlett, David Packard, Bob Noyce, and Gordon Moore.