FIRST SELECTION OF GLEE CLUB CANDIDATES

Forty-one Men to Report at First Rehearsal on Friday.


These men should learn the words of the songs which they are to learn.

The first concert will be held this afternoon with the Mechanic Institute Committee. and two to the Athletic Association.

REV. MR. J. A. RICHARDS TO SPEAK THIS NOON
Subject of Second T. C. A. Talk to Be "The Spirit of Adventure."

The T. C. A. is to conduct its second and final talk in the Union this noon at 1:30, and judging by the large attendance at last Thursday's talk, the talk will very likely be of considerable interest. The T. C. A. hopes that a large number of men will be on hand to give the talk a worthy welcome, and to give the weekly talks their full support.

CROSS-COUNTRY MEN RUN OVER COURSE
Small Squad Appears For Trip Fall Handicap Meet Correction.

In yesterday's issue of THE TECH the Fall Handicap Meet was announced for next Saturday. This is an error as the Meet comes October 25.

Yesterday afternoon thirteen candidates for the Cross-Country Team ran over the course. The rainy weather of the last few days made the ground rather soggy and rendered the course pretty difficult.

FRESHMAN HYGIENE

Dr. Arnold Rockwell gave the second of a series of lectures on hygiene yesterday in Huntington Hall. These lectures are to be held in the Freshman Class. All 1917 men are required to attend.

The subject of the lecture was "The Physiology of Digestion." He emphasized that college men generally do not take time to properly assimilate their food, and he said that this is a large cause of many students losing their health. Dr. Rockwell will deliver his third lecture next week at the same time.

MANDOLIN REHEARSAL

The first Mandolin Club rehearsal will be held today at 4:15. Everyone wishing to be in the club this year should be there. Practice was held today, although Practice was held today, although Kautz, Allen, Randolph and Petti are among those unable to play. Two new candidates reported to Coach Cuddy, but this is not enough, and unless more men come out, especially for the backfield positions, the prospects of defeating the Freshmen will not be great. The loss of Petti will be felt, and his place is a difficult one to fill.

A game has been arranged for next Wednesday with the Somerville High School team. The game will be played on the Freshmen's Columbus Day.

JUNIOR BALLOTS DUE

Today Is Last Opportunity To Vote

The Junior Class ballots are due today, and the committee again brings to the attention of the members of the class that no votes will be counted unless the voter has paid his class dues.

CATHOLIC CLUB GIVES DINNER TO FRESHMEN

Dean Burton, Father Broek '00, and Father Scanlan give interesting talks.

In spite of the most unfavorable weather last night a large number were present at the Catholic Club reception to the Freshmen, which was held on the balcony of the Union. All the space available in the two adjoining rooms was taken to accommodate the members and the guests.

After a very enjoyable dinner, L. F. Walsh, president of the Club and toastmaster for the evening, spoke briefly on the purposes of the Club and the work of the Catholics as the Institute. Dean Burton was then introduced and given a roasting by "M. L. T."

He said that although this was the first time he had addressed the Club and said that he has seen all the members at least once before, and some of the members even often. But he pointed out the advantages that can be gotten from an organization like the Catholic Club and that some members should not confine themselves to this club alone, but should give the other clubs at the Institute the benefit of these advantages. He suggested that the T. C. A. and the Catholic Club could do a lot better if appointed a committee of advisors to help the Freshmen learn the game. He then took up the nature of the work at the Institute. In order for Tech men really to succeed they must take a real, live interest in their work and realize that it is their life profession. He said that the first two years are meant to be made out for the following courses: I, XI, and IV, Option 2. Revisions are due today at 5 P.M. at the Cage. Papers signed by at least ten Sophomores are to be made out for the following offices: President, Vice-President, Secretary, Treasurer, and two to the Executive Committee. Every Sophomore must pay his class dues to an official collector before his ballot will be counted. This does not affect nomination papers but merely the ballots that follow.

TENNIS TOURNAMENT

The weather during the past week has been of such a character that tennis playing was impossible, but the officers of the Association hope that if the weather permits the matches will be played as quickly as possible since the time remaining is very short.

The tournament is open to all members of the Freshman upper class. The Courses I, XI, and IV, Option 2. Revisions are to be served.

With President Macaulin back, a General Conversation is to be expected.

SEveral Freshmen from the West are reported to be constructing an interesting Talks.

WEATHER

For Boston and vicinity: Unsettled, generally fair; diminishing north to west winds.

CALENDAR

Thursday, October 16, 1913.

12.30—C. A. Talk—Union.

2.00—Electrical Engineering Trip—Lincoln Power House—Boston Electric Light Company—O. F. W. Gage.

4.15—Mandolin Club Rehearsal—Union.

5.30—1916 Tug-of-War—Gym.


4.15—Field Football—Field.

4.30—Relay—Field.

4.30—Relay—Field.

4.30—Relay—Field.

4.00—Nominations due—Cage.

4.45—Reception to Students—Union.

Junior Class Balots Due.

Friday, October 17, 1913.

2.00—E. H. Eng—and Engineering Society Meeting—Union.
THE TECH, BOSTON, MASS., OCTOBER 16, 1913.

ENGINEERING AND SCIENTIFIC NOTES

The proposition of a sea-level canal across Scotland is now receiving serious consideration. The canal which is to connect the Firth of Forth with the Clyde, a distance of 26 miles, would cost 120 million dollars and require five years for completion. It is to be a sea-level canal, and hence will require only sea locks at each end. The soil along the proposed route consists merely of sand and gravel so that the digging of a ditch 150 feet wide and 40 feet deep would be a comparatively easy engineering undertaking. The main function of the canal is to provide a short waterway between Edinburgh and Glasgow.

A new method of lighthouse construction is being carried on with a lighthouse which the government is erecting at the upper end of Delaware Bay. The base of the house was built on dry land and will finally be towed to its destination and sunk. It is to have a huge tube of concrete 18 feet high and with walls 18 inches thick. When it is sunk it will protrude above the water at high tide and the elevation of the superstructure may be the same as in the usual manner. This method saves the erection of costly coffer dams and has proven very successful at some places on the continent.

The Scientific American for Oct. 14th contains a most interesting and instructive article on the manufacture of paper, tracing the extensive process from the cutting of the wood to the handling of the finished product. It is a fact that tons of pulp paper are daily consumed (500 million dollars worth annually in America for the manufacture of newspapers, magazines and books, but few of us know the variety of processes by which this paper is produced. The article has some fine illustrations and is well worth reading.

The much discussed tunnel under the English Channel connecting the island with the mainland of France offers no insurmountable difficulties to the engineer. The bed of the channel is composed of firm impermeable chalk. Statistics indicate that there would be a profit in such a tunnel and the old political and military prejudices against its construction are now disappearing.

Investigations upon the magnetic properties of elements have shown that graphite is peculiar in its properties when in a magnetic field. By experimenting with lead pencils and various bars of graphite Mr. G. E. Roberts has found that the lines of force of a magnetic field are perpendicular to the planes of cleavage of the graphite crystals and the electrical resistance of the specimen is increased by several hundred per cent in some cases.

WHO LOST A BOOK?

The stranger entering the office of the Superintendent of Buildings and Power is entitled to be astonished at the number of found, but unclaimed books and note-books which lie there awaiting owners. Cards are sent to those whose names are on the lost articles but even then the piles of over one hundred books fails to diminish in size.

The second Symphony Concert of the year will be given today.
ATLANTIC PRINTING COMPANY
ENGRAVERS PRINTERS BOOKBINDERS
Phone 4960 Oxford
179 South St., Boston
Printers of "The Tech"

Frost & Adams Co.
call the attention of M. I. T. Students—1917 and upper classes—to their branch store at
478 Boylston St. Opp. Rogers Bldg.

Full line of
Drawing Instruments and Supplies

Reliable goods at lowest prices.
Slide Rules, Alteneder Instruments

Main Store - - 37 Cornhill

"Keeping in Front"

You fellows know what that means! We've been very successful in this regard with "Fatima" Cigarettes. By the way, these cigarettes were first sold in the college towns — and you agreed with us that they were good.

Then we put it for the big race, to make Fatimas of nation-wide reputation, and today more are sold than any other cigarette in this country.

No purer, or more carefully chosen tobacco grows than that in Fatimas. We purposely put them in a plain inexpensive wrapper — in this way we can afford quality tobacco, and ten of the smokes for 15 cents.

Now your college crew is of utmost importance to you — so is a good cigarette, and it's your aim in life to keep Fatimas in the lead — right up to where you first found them, and will always find them.

Success fellows! Start this cigarette on its successful career — and you pull a strong car all over this country.

Keep Fatimas in Front

THE TECH, BOSTON, MASS., OCTOBER 16, 1913.

BIZINESS MEETING OF COSMOPOLITAN CLUB

Held in the Union Dining Room Yesterday Afternoon. — Plans Made.

At 5 o'clock yesterday afternoon the Cosmopolitan Club held a business meeting in the dining room of the Union and plans were made for the present term.

At the last meeting of the Club a committee consisting of Professor Dotto, C. E. Fox, and Turpin was appointed to revise the constitution, and the amendments made were announced. They will be posted on the bulletin boards to be voted on at the next meeting. Pablo Berola was nominated for second vice-president by the nominating committee, and all other nomination lists containing the signatures of five members of the Club should be handed to Secretary Turpin Has on October 22.

The arrangements for the National meetings were made, and after a lengthy discussion the following were decided upon: Chinese night, November 19th; British night, the last week before the Christmas recess; and the annual dance at some intermediate time to be decided upon later by the dance committee.

The last business of the Club was to elect the following American students as members: W. C. Loonis, Stuart Keith, E. G. Goldsworthy, N. E. Tarrifello, A. C. Sherman, Jr., Alfred E. Hall, R. D. Salsbury, F. C. Foote, S. M. Fox, and W. X. Rich.

CATHOLIC CLUB DINNER

(Continued from page 1.)

Father Brock, a 1900 Technology graduate, was the next speaker. He said he was glad to see how social life had developed here as Technology since his time. Then there was no place where the students could get together as they can now in the Union. He spoke very highly of the Institute, and said that he considered the years spent here as among the most profitable of his life. Technet men, he said, come here for good honest work; there is no bluff about it. This is the spirit that does things.

Fr. Stanislaus, the spiritual director of the Club, gave the closing talk. He urged the men to be loyal to the Institute and make the most of their advantages. If the good of this club could be blended with the good of the other clubs, it would be possible to evolve a perfect man.

With Solomon to play the piano, a few of our familiar Tech songs were sung with great zest. A business meeting was then called and the president asked for suggestions for making the meetings more social. Mgr. Sphane, who had been unable to attend the dinner, gave a short talk. He told about the Catholic Congress of Missionaries, which is to be held here next week, beginning Sunday. It is expected to be the largest congress ever held, eighty-two bishops to be present. He invited the Club to send delegates, and as a result of the invitation President Walsh and Robert Murphy were elected to attend the Congress.

THE TECH UNION BARBER SHOP
Located in the
HOTEL WESTMINSTER
Handy to the lecturers. Up-to-date, fashionable hair cutting and shaving. The best equipped and most perfectly equipped shop in the Back Bay. Sixty men will make seven cut giving at least five in fifteen minutes.

THE TECH UNION BARBER SHOP

ENGLISH PRONUNCIATION FOR FOREIGN STUDENTS

The Monoro School for the Correction of Speech
39 Tuite Bldg., Center Square, Boston.

Apointments for lessons or consultation will be arranged by mail.
Holland’s Dining Room
Holland’s - 379 Columbus Ave.
Excellent board at reasonable prices
Home Cooking
21 Meals - $6.00
14 Meals - $4.00
4 Meals - $2.00

ATTRACTIONS AT THE THEATRES

TREMONT THEATRE
ZIEGFELD FOLLIES

HOLLIS ST. THEATRE
JULIA SANDERSON
The Sunshine Girl

PARK THEATRE
Evgs. 8:10. Mats. Wed. & Sat. at 2.
THE CONSPIRACY
Prices 1.50, 1.00, 75¢, 50¢, 25¢

BOSTON THEATRE
Evgs. at 8. Mats. Wed. & Sat. at 2
JOSEPH AND HIS BRETHREN
Prices 25¢ to $1.50

COLONIAL THEATRE
Nights at 8. Mats. Wed. & Sat. at 2
GEO. M. COHAN
Broadway Jones

PLYMOUTH THEATRE
Evgs. 8:15. Mats. Thurs. & Sat. 2:15
MR. GEORGE ARLISS
Disraeli

STUDENTS PATRONIZE OUR ADVISERS

ELECTRICAL ENGINEERS TO TAKE FIRST TRIP
Society to Visit Lincoln Power Station at Two This Afternoon.

This afternoon at 2 o'clock the Electrical Engineering Society will conduct its first excursion to the Lincoln Power Station. It is expected that about thirty men will take this trip while about the same number will take the same trip tomorrow. The students will inspect the old reciprocating type of generator found at the Lincoln station. There are very few of this type of generator now in use as they are being replaced by a more modern type. These generators supply power for the Elevated Railroad only. It is expected that an instructor will accompany each party. This trip is open to Sophomores, Juniors and Seniors, and there is plenty of room for all. The party will leave the Lowell Building at 2 P.M.

CHANGES IN FACULTY

Many New Names Are on The List - Important Resignations.

At the Corporation meeting on October 8, the following changes in the instructing staff were made.

Resignations: Thomas E. Pope, Professor of Inorganic Chemistry; S. E. Giexion, Instructor in Mechanical Drawing and Descriptive Geometry; R. J. Wiseman, Assistant in Electrical Engineering; W. W. Allen, T. H. Hines and D. J. McGrath, assistants in Mechanical Engineering.

The following new appointments were made: Albert LeMoument, Assistant Professor of Architectural Design; William G. Snow, special lecturer on Heating and Ventilation; Professor William T. Sedwick, Professor George C. Whipple and Dr. Milton J. Rosenau, members of the Administrative Board of the School for Health Officers; Ferdinand M. Hoyt, Assistant in Heat Measurements, replacing Mr. Rowley; Albion Davis, Assistant in Physical Chemistry, replacing Mr. Batchelor, on leave of absence; Otto R. Schurig, Assistant in Inorganic Chemistry, two centrally located banking offices.

STONE & WEBSTER
STONE & WEBSTER
Management Association
General Managers of Public Service Corporations

STONE & WEBSTER
Engineering Corporation
Constructing Engineers

THE TECH BARBER SHOP
585 Boylston Street
Copley Square
Bootblack Second Floor

All Goods Required by Students at Maclachlan’s
502 Boylston Street
Drawing Instruments and Materials
Pencil Pens Text Books

Old Colony Trust Company

Capital . . . $6,000,000
Surplus . . . 8,000,000

Equipped to Furnish Every Banking Facility

One account commands the services of two centrally located banking offices

17 Court Street
Boston

STONE & WEBSTER
CHARLES A. STONE, ‘88
RUSSELL ROBB, ’88
EDWIN S. WEBSTER, ’88
HENRY G. BRADLEE, ’91
ELIOT WADSWORTH, ’91
Dwight P. Robinson, ’92
JOHN W. HALLOWELL

Securities of Public Service Corporations
Under the Management of our Organization

STONE & WEBSTER
THE ORIGINAL
ARROW NARROW COLLAR
Cheeks, Peabody & Co. makers

Anoka New
ARROW COLLAR

ASK YOUR DEALER WHY?
FOR SALE AT ALL COLLEGE BOOKSTORES AND DEALERS
Descriptive circulars and price list mailed on request

American Fountain Pen Co., Adams, Cushing & Foster
Manufacturers Selling Agents
158 Devenshire Street, Boston, Mass.

The Original
ARROW COLLAR

2 for 25