Preparations Well Under Way For Handball ... Friday.

Sophomore Tag-of-War. The Sophomore Tag-of-War Team held a very successful practice game yesterday afternoon at the Oval. About thirty candidates were out. The first part of the practice consisted in pulling against the pole, while the latter part was devoted entirely to getting starts.

This will be a very important practice at one o'clock at the Gym today. Both Coach Affel and Manager Sully suggest that every candidate turn up, because in addition to practice on the rope, the team will throw their weight and strength tests taken.

1916 Relay. Yesterday afternoon the 1916 Relay Team had their final trials. The trials of lap and pursuit of a fast race next Friday are bright. The following men made the team: Comstock, Peterson, Dunham, Hayes, Hine, Lawrason, Libier, Loomis, C. S. Reed, Reed and Page. The substitutes are Kitteridge and Laplasy.

These men will meet immediately after the handicap meet this afternoon to elect a captain. The men on the team who have not got their Tech Night tickets will meet Manager Ullinger in Rogers Corridor at one o'clock this afternoon. Measurements for the suits will be made at the Field on Monday afternoon at 4:30.

Matters of Importance will be discussed and let no one missing.

THE TECH MEN TO MEET

Matters of Importance to all will be discussed and let no one missing.

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TECHNOLOGY VS. B. A. A.

CROSS-COUNTRY RACE

M. I. T. Team Is To Be Picked From Results Of Today's Race

Technology Cross-Country and B. A. A. teams will leave the Back Bay station at 2:36 this afternoon. They will go to Highland Field in Brookline. With but six days to Field Day and most of the relay men entering in the sprint, the race promises to be of exceptional interest. The regular events, with the exclusive of the mile and two-mile runs, which have already been decided, will all be run off in the order given below in announcing the handicap.

The handicaps for the bundles and field events are not complete as yet and will be given out at the Techs just before the meet.

Wilson is on scratch in both sprints alone in the hundred, but with O'Hara in the 220. With Loomis in '16 on scratch will be followed by a half yard line. Besides, it is hard to tell who will win the hundred. For the handicaps are very strange and several times there is sure to be close competition between the men named.

Coach Kanaly is going to pick the relay team from the men who have been running regularly and will push the handicap men hardest. A close finish will feature the race.

The half mile is the longest distance to be competed and has lost several men because of the Cross-Country race. The hurdles may have a handicap trial and the races promise to be close. The weight events are not drawing the number of entries that they ought and Coach Kanaly hopes that more will come out for this big team.

The handicaps and order of events follow:

1. 100 yards; Heats and Finals—Wilson, scratch; Loomis, 2:1 yards; Reed, 7:1 yards; Friend, 5 yards; Wilson, 8 yards; Hine, 6 yards; Lifton. 7 yards; K. Dean, 8 yards; Lawrason, 8 yards; Schafer, 8 yards; Donnan, 7 yards; Lawrence, 9 yards; Atmeyer, 10 yards.

(Continued on page 4)

M. E. SOCIETY TRIPS

Members To Inspect Motor Driven Ship California.

Permission has been obtained by the Mechanical Engineering Society to visit the big Scandinavian motor ship, California. This ship has just finished its maiden trip from Sweden, and is at present docked at Pier No. 48, Mystic Wharf, Charlestown. The equipment consists of two large Diesel Internal Combustion Engines, the largest of their type that have been installed in a vessel.

In order that all members of the Society may have the opportunity of inspecting the ship and its power plant, two trips have been arranged, the first to start on Saturday afternoon, Nov. 1st, at 2:15 P. M. from the Rogers steps, the second on Sunday at the time and place to be announced in Monday's TECH.

The Auxiliary of the Mechanical Engineering department has consented to accompany the men on the trip. Both of these trips are open to members of the Society only.

TELEGRAPH

For Boston and vicinity: Fair, continued cold, overcast winterly winds.

CALENDAR

Saturday, Nov. 1, 1913.

2.00 — C. E. Trip to Paine Building — Leave from left end of Post Office Bldg.

2.52 — Cross-Country Run, Tech vs. B. A. A.—Leave Back Bay.

3.30 — Fitchfield — Leave from left end of Post Office Bldg.

7.30 — 1911 Reunion — Union.

Sunday, November 2, 1913.

3.30 — Sunday Conference—Huntington Hall.
THE TECH, BOSTON, MASS., NOVEMBER 1, 1913.

ENGINEERING AND SCIENTIFIC NOTES

As an incidental feature of its topographic mapping in the State of Colorado, the United States Geological Survey has established bench marks that have been found to be invaluable to engineers and others who are required to have knowledge of the exact elevation of the locality at which their starting points are found. From 1880 to 1910, including the entire period of the Geological Survey's existence, more than 1,800 exact elevations in Colorado were taken. These datum points were marked by means of table, caps, or iron posts embedded in the ground and marked by masonry, or cut into trees, posts, etc., the number stamped with steel dies on the bench mark. This is the nearest detail as determined by the survey.

Bulletin 486, which has been issued by the Survey, describes these datum points and gives exact elevations to the thousandth of a foot. For instance, the datum points on the east side of the Mississippi River are described as follows: "Pikes Peak, monument of rocks on summit of Pikes Peak: aluminum tablet stamped '14017 1900-10,' 14019-1014, 14021-10, 14023-10." A copy of Bulletin 486 may be obtained by application to the Secretary of the United States Geological Survey, Washington, D. C.

In line with the demands of the Interstate Commerce Commission that the railroads of the country must develop a signal system automatically to cover all training and prevent collisions, the Queen and Crescent Railroad at Cincinnati the other day gave an official demonstration of a new signal and automatic train stop system over a railroad division under actual service conditions. The invention has been developing its system to answer the signal requirements for daily service over 114 miles of track on the Queen and Crescent for more than a year past and has succeeded, it is said, to the point of practical efficiency that is required in the daily operation of trains. Signals by the system are produced inside the engine cab, operated through track circuits and relays by compelling an engineer to crank his neck outside the cab in his efforts correctly to read and follow the signals. The system has the further advantage of applying the brakes and automatically stopping the train under danger conditions if the engineer should for any reason fail in his duty. The official test of the system covered 160 miles under the severest signal conditions obtainable, running from Ludlow, Ky., to Lexington, Ky., and from Greenup, Ky., to Huntington, Ky., and returning over a water-locked track. The system is said, thoroughly performed its functions as perfectly as the present wayside signal system operates, just as it has done in a service test the past twelve months.

The addition of O'Hara to the Freshman squad has been at last definitely accomplished, and is expected to prove a big help.

CORPORATION INTEREST IN FIELD DAY EVENTS

Two-Thirds Of Seats Reserved For Faculty Applied For Already

In a recent letter to THE TECH on athletic, and particularly, Field Day topics, Major Briggs states that "any body is short excursion in Field Day than ever before. The members of the Corporation arc accordingly greatly interested. Already more than two-thirds of the seats reserved for these bodies have been applied for.

As an example of this enthusiasm the Major writes that only last Sunday Mr. Desmond Fitzgerald caught us out to learn the date, time and other details of Field Day.

In referring to the student exercises being suspended on November 7th, Major Briggs comments on the Faculty rule that meals for last spring by which the Freshman and Sophomore Laboratories and Drawing rooms will absolutely be closed after twelve noon. No one will be permitted to work there after that time. The Cross-County Team, he says, may be sent to the I. C. A. A. A. Championship Meet at New York on the 22nd of November. A great deal depends on the way in which the team wins at the initial meet. It is also probable that Dartmouth will round into such shape as to be able to win the New England meet on their own course, although several of the other New England colleges will not be out of it as "threateners."

FIELD DAY EVENTS

(Continued from page 1.)

A Boston expert, who witnessed the game between the Harvard and the heavy Lowell Textile, stated that the 1917 Team has under developed power. Criticizing the method of play, he stated that the line charges too high; the backs afford too much interference for the man with the ball, while the individual work is good.

A waste receptacle in 28 Walker caught fire Friday through some unknown cause. Several Sophomores who were in the room at the time were wildly hunting for sand. Fireman Pay stepped up and said, "we don't use water?" The reckless of water poured upon it sufficed to extinguish it to the apparent amazement of all.

The Sophomores are watching their football team with a good deal of anxiety: most of them believe that the football game will be the deciding issue of the season.

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THE ORIGINAL NON-LEAKABLE FOUNTAIN PEN

$2.50 AND UP

Simply removes the cap and it is ready to fill—no reassembly. Can be cleaned in any water, soap or ink. It washes like a pen. It is drawn at the fast stroke, without smearing. It writes with the same ink, with the same pen, as any other. Nothing to get out of order. May be screwed or fastened. Every pen unconditionally guaranteed.

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Choice seats for all theatres
HERRICK,
and other personal effects bought by
CLUETT, Peabody & Co. Inc. Makers
THE (upper) TECH OFFICE
the best work"
**FIFTH YEAR DESIGN**

W. W. Barrow '12, a graduate student, taking Fifth Year Design, and L. C. Rosenberg, a specialist student, won first and second awards respectively on their treatment of the first problem of the year. The problem was the design of a boating establishment and was treated in a unique manner by both men.

**COMMUNICATION**

To the Editor of THE TECH—

Dear Sir,—I am interested to read under your column, "Engineering and Scientific Notes" (Friday, Oct. 31), of the results of the earthquake records. For instance, nothing was said about Tech Night at the Shubert until the seats were put on sale. The arrangements for the use of the tennis courts have been continually hinted at, but no definite information has been given as to whether they were ever restricted, or whether membership in a tennis club was necessary. Questions like this continually arise and the answers are not to be found in the "Bible" or "Concerning M. 1, 2."

Sincerely yours,

A Freshman.

**COMMUNICATION**

To the Editor of THE TECH:

Dear Sir,—You ask for suggestions that might lead to improvement of THE TECH as a student paper. I believe that I voice a very common undergraduate feeling when I say that THE TECH would be improved materially by your installing a little more life and humor into its columns. Yours sincerely,

A Utopian Sophomore.

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In The Sunshine Girl

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**SENIOR JOY RIDE**

Class Will Attend Field Day in a Body.

On Field Day the said and dignified Senior will celebrate their last opportunity to attend this important function in a body by indulging in a royal and unsourced joy ride. The assembled body of talent will leave the palatial entrance of the Copley Plaza at Dartmouth Street at 12 o'clock next Friday. The manner of transportation will be through the streets of the luxurious and ornate electrical vehicles of the Boston Elevated Railway, which will proceed to the company's station 30 miles from the city, and thence over the railroad, until they reach the boat dock or other line of communication from whence the multitude will proceed to the scene of assembly. Tickets for this unusual celebration will be sold at a very negligible sum at the beginning of each month. The members of the penguin society will be distinguished by their insignia, which will attest to the exclusive character of the occasion.

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Excellent board at reasonable prices

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27 11th Street

Excellent soups at moderate prices

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