FREDERICK L. COOK IS ELECTED C. C. CAPTAIN

This Year's Star Runner To Lead Teams--'14 Prospects Bright.

Yesterday evening Captain A. P. Xpe of the Cross-Country Team gave the members of the team a dinner, after which the election of the new year's Captain was held. Frederick L. Cook '15 was unanimously elected Cook comes from Hillsdale, Me. After going through the schools there, he went to High School in Portland; for a year. Before entering Tech he never did any running with the exception of a half mile race at High School. In his first year Cook only entered the Tech-Skowhegan race and, without any substantial preliminary work, finished sixth. The next year he is expected to finish fifth. It was only then that the members of the Track Team paid

REGISTRAR HUMPHREYS ON SCHOOL COMMITTEE

Town Of Brookline Elects Institute Man To Fill Vacancy On School Board.

That the various men on the Faculties at the Institute do not confine their work entirely to the demand of Technology is shown by the election of Mr. Walter Humphreys, the registrar to the School Board of Brookline. Mr. Humphreys was elected to succeed Mr. Howard White, who caused the vacancy on the school committee by his removal from Brookline.

Registrar Humphreys is a Techman, and graduated from the Institute with the class of '97. Course II. He spent two years engaged in mechanical work, then returned to the Institute to become secretary of the Faculty. The latter position was held by Dr. Traver for a year. In 1902, Mr. Humphreys was appointed Registrar, and in 1911 his title was changed to Registrar and Recorder. During the last six years, Mr. Humphreys has been instructor in the Mechanical Engineering Department, and has been teaching Mechanism.

PORTFOLIO COMMITTEE

Nominations Opened Thursday--Technique May Include Portfolio.

Nominations for members of the Senior Portfolio Committee will be received at the Cage between Thursday, December 4, and Thursday, December 11. The Committee will be composed of five men, who will be elected by the class. In former years the Portfolio has been a separate book, but it is proposed this year to incorporate it with Technique. The Committee will not be a portion of the class, and in the event of a decision against having a separate book the committee will co-operate with Technique. The petitions for nomination must be signed by ten men who have paid their class dues, and should be addressed to the Senior Portfolio Election Committee.

F. L. COOK, '15.

P. L. COOK, '15.

WINTER CONCERT

The tickets for the Winter Concert which will be held at the Copley Hotel on December 31, are now on sale, and may be obtained from the members of the committee. These tickets may be exchanged for a reserved seat on December 3. The tickets are a dollar and a half each, which is lower than has been the custom in previous years.

CATHOLIC CLUB DINNER

Rt. Rev. Francis Murphy Will Address Meeting Tonight.

The Catholic Club is to have one of its regular meetings tonight in the Union. There will be a dinner at 6 o'clock, after which the Rev. Francis Murphy will speak. A short entertainment will be given later on in the evening.

The Rev. Francis Murphy comes from the St. Francis de Sales Church in Roxbury. His subject is "The Church in Italy," a very interesting topic, and one on which he is well fitted to speak.

CALCULATION OF NUMBER.

N. B. -- The catalogue just issued inaugurates a new plan in the numbering of the catalog. All courses are numbered according to their department. For example, all the courses coming under the Mechanical Department are numbered as follows: Course I, number 1 to 195; Course II, number 200 to 415, a number larger than last year's. The Freshman class numbers 315, a number larger than last year's. The number is increased to add students from other colleges to the Institute. There are 315 members of the class of '97, Course I. The catalogue of the Institute has just been received from the press, and it shows, besides an increase in the registration of students, several changes in system and some also in the courses. The catalogue shows an enrollment of 1065 students, the largest number in the history of the Insti-

TECHNIQUE

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CERCLE FRANCAISE

All men who were members of the Cercle Francaise last year are invited to meet in Room A of the Union Friday, December 5, at 7 P. M. New men who desire to become members are also invited. At this time the election of officers for the current year will be taken up. There will be a discussion of a change in the policy of the Cercle.

DEAN BURTON TO SPEAK

Dean Burton will be one of the speakers at the dinner of the French High School Association this evening. The dinner will be held at the Copley Plaza Hotel.

PRICE TWO CENTS
I.

In everyday life we are accustomed to think of the time as dependent upon the apparent motion of the sun, or what is known as solar time. Standard time as obtained by the astronomer is, however, sidereal time, that is, it is the time of the rotation of the earth about its axis and is obtained by observations upon the stars and not the sun.

The phrase "obtaining time" to an astronomer means essentially checking a chronometer by stellar observations. The method is interesting and capable of high precision when all sources of error have been taken into account. The astronomer has in his possession a catalogue of all the principal stars which enables him to calculate to 1/100 of a second just when a certain star will cross the "meridian" or plane of the earth's axis which passes through the telescope, of course, the desired check on the chronometer.

High grade clocks in the Naval Observatory at Washington, D. C., are checked in this way by various stars each night, and these furnish the chief source of American sidereal time. A simple calculation suffices to convert this into the Standard Solar Time of ordinary commercial usage.

FIRST HOCKEY PRACTICE

Tonight at seven o'clock first practice for all the hockey candidates will be held at the Arena. All the men who signed up at the meeting must report this evening. From now on practice will be held twice every week, Wednesday and Sunday evenings.

FINANCE COMMITTEE

There will be a meeting of the Finance Committee on Thursday, December 4, at 5:15 p.m. in the Tech Show office. At this time important arrangements will be made for the semi-annual auditing of the books of the Committee.

Are you going to the Winter Concert?...
Mr. Louis K. Rourke Will Talk About

and will deal with the openings for

on his present work in Bos-

the Class of 1895 will address the

Mr. Louis K. Rourke of

will take place Thursday at eight in

Mr. Rourke was connected with the

of the Panama Canal before taking up his present

work, and is known to many

business men by his past talks. The last

time he spoke was an informal talk

line of work, and is known to many

and his criticisms, Mr. Stockdale

church, and will give his views on the

Churchill, and will give his views on

so of the church. Churchill, in his work,

of the church. Churchill, in his work,

and not enough on living Christianity.

through his church, but also from his previous T. C. A. talks

and "Question Box," will speak on the topic, "A Minister's Opinion of The

of the church. Churchill, in his work,

Mr. Stockdale is competent to discuss such a question in-

Neil's and many others will discuss such a question in-

often his church, but also from his previous T. C. A. talks

"The Inside of The Cup," by Winston Churchill, and will give his views on the

"The Inside of The Cup," by Winston Churchill, and will give his views on the

content, but the author's
criticism of the church and the working-

management, is evidenced by the fact that his

long experience as pastor has brought

middle classes.

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THURSDAY IN UNION HALL

Mr. Louis K. Rourke Will Talk About

SMOKER FOR CIVILS

THURSDAY IN UNION HALL

Mr. Louis K. Rourke Will Talk About

next T. C. A. Speaker

REV. MR. A. STOCKDALE

South End Pastor Will Give Opinion

On "The Inside Of The Cup,"

By Churchill

Tomorrow noon, the Rev. Mr. Allan A.

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New members of the Society who

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or a pin may make ar-

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summer.

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Brown, Dumlick, F. L. Ford, Maloof,

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Cross Country

(Coast from page 1.)

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First Thursday he went into the X. C. ten-mile championship and
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The men who failed to make the track are under management of

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