

THE TECH

VOL. XXXIII. NO. 91.

BOSTON, MASS., WEDNESDAY, DECEMBER 3, 1913.

PRICE TWO CENTS

NEW CATALOGUE JUST RECEIVED FROM PRESS

Interesting Statistics And Changes In Institute System.

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 1685 students, the largest number in the history of the Institute. Last year there were 1611 men at the institute, a difference from this year of 74. One non-resident fellowship and four candidates each for the degrees of Doctor of Engineering and Doctor of Philosophy are enumerated. There are 31 candidates for Master of Science as against 26 in 1912, and 245 graduate students as against 230 last year. The special students are greater in number, 63 this year in comparison to 42 a year ago.

The catalogue shows that there are 286 Seniors at the Institute. Last year's third class numbered 260. These facts show that a larger number of students returned to complete their courses; eighty-seven per cent of last year's Juniors have returned, with enough students from other colleges to increase the number by sixteen. The same, practically, holds true of the third-year class, which now numbers nineteen more than it did last year. The Freshman class numbers 415, a number larger than last year's entering class.

The catalogue just issued inaugurates a new plan in the numbering of the courses of study. Each main course or department is numbered as in the past from Course I to Course XIV, and each course of study coming under these various departments is numbered according to its department number. For example, all the studies coming under the Mechanical Engineering Department or Course II

(Continued on page 3.)

CATHOLIC CLUB DINNER

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.

WINTER CONCERT

The tickets for the Winter Concert which will be held in Copley Hall on December 16, are now on sale, and may be obtained from the members of the Musical Clubs. These tickets may be exchanged for a reserved seat on December 8. The tickets are a dollar and a half each, which is lower than has been the custom in previous years.

FREDERICK L. COOK '15 ELECTED C. C. CAPTAIN

This Year's Star Runner To Lead Team—1914 Prospects Bright.

Yesterday evening Captain A. F. Nye of the Cross-Country Team gave the members of the team a dinner, after which the election of the next year's Captain was held. Frederick L. Cook '15 was unanimously elected. Cook comes from Hinkley, Me. After going through the schools there, he went to High School in Poughkeepsie 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 Freshman-Sophomore race and, without any substantial preliminary work, finished sixth. The next year he practically repeated by finishing fifth. It was only then that the members of the Track Team pre-



F. L. COOK, '15.

vailed upon him to continue his work. After a few weeks' practice, he entered the Spring Meet, where he performed brilliantly. Throughout the season he and Wall alternated in winning the two mile. This season he started out well by keeping at Benson's heels throughout the first run over the course. In the race against Holy Cross he finished a good first in the fastest time in several years. It would have been a record, were it not for the change in the course. The N. E. race at Hanover saw the whole team slump. Cook tripped and was badly handicapped by several men piling on top of him. He finished thirteenth after a heartrending attempt to overhaul the leaders. In the I. C. A. A. A. he finished ninth, running fast

(Continued to page 4.)

TECHNIQUE, 1915

All Juniors who wish to participate in the competition for Assistant Business Manager of Technique, 1915, are requested to meet Business Manager George Urquhart in the Technique office, Thursday, December 4, at five o'clock.

REGISTRAR HUMPHREYS ON SCHOOL COMMITTEE

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

That the various men on the Faculty at the Institute do not confine their work entirely to the demands 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 Tech man, 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 assistant to the Secretary of the Faculty. The latter position was held by Dr. Tyler at that time. 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 an 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. This question will be decided by 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.

Fay Williams, Chairman.
Ralph Wells,
Gordon White,
Election Committee.

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 ensuing year will be taken up. There will also 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 English High School Association this evening. The dinner will be held at the Copley Plaza Hotel.

SOPHOMORE GOVERNING BOARD HOLDS MEETING

Pipe and Dinner Committees Are Appointed. Dinner to Be in January.

The Sophomore Governing Board held a meeting in 21 Rogers yesterday at one P. M. A pipe committee, consisting of J. P. Ulfinger, H. P. Pinkham and J. K. Heller, was appointed. It was decided to hold the class dinner during the first or second week in January, and the following dinner committee was named to make the arrangements: D. B. Webster, G. Garita, T. C. Jewett, S. R. Buckowitz and H. L. Bickford. The election for baseball manager was postponed until the next meeting. The following names of absentees were read: L. T. Hill, Evans and Freeman.

NOVICE WRESTLING MEET

Provisional Team Picked—Preliminary Cuts.

A novice wrestling meet will be held next Saturday evening between the B. Y. M. C. A. team and a team composed of Institute men. Any Tech man who has never wrestled before in a meet is eligible to be on our team. The final tryouts will be held today at five at the Gym. The men who have been selected for a provisional team are as follows: 115-pound class, Maloof; 125-pound class, Stebbins; 135-pound class, Durkee or Berger; 145-pound class, W. C. Wood; 158-pound class, Goodell; heavy-weight class, Leslie. However, this is not the final team and any man may win a place on it by defeating any man of his class at the last tryouts this afternoon.

The first cuts on the wrestling squad took place yesterday. As was stated at the first tryouts this list is not final and any one on it may be displaced if thrown by any man of his class. This cut was supposed to limit the squad to ten men in each class.

(Continued on page 3.)

WEATHER

For Boston and vicinity: Generally unsettled; moderate east to north-east winds.

CALENDAR

Wednesday, December 3, 1913.

4.00—M. E. Society—H. B. (postponed).
5.00—Final Tryouts for Novice Wrestling Team—Gym.
6.00—Catholic Club Dinner—Union.
7.00—Hockey Practice—Arena.

Thursday, December 4, 1913.

1.30—T. C. A. Speaker—Union.
4.00—Walker Memorial Committee—Union.
5.00—Meeting of Candidates for Assistant Business Manager of Technique—Technique Office.
5.15—Meeting of Finance Committee—Tech Show Office.
8.00—C. E. Smoker—Union.

Friday, December 5, 1913.

8.00—Cercle Francaise Meeting—Room A. Union.

THE TECH

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WEDNESDAY, DECEMBER 3, 1913

In Charge of This Issue

Editors—L. E. Best, Ralph Millis
Assistant—H. E. Lobdell.

The lyric competition for the Show closes tomorrow, having allowed only a week and a day for the writing of the verses. We are not familiar with the inside workings of the Show, but it is our impression that this time is altogether too short for the purpose of bringing out the best possible work, even though the amount demanded is not as much as will in the end be necessary. If it took Gray seven years to write his "Elegy," the average Tech man should take more than eight days to write a lyric, and since we are not aware that the Show is short of time, we are at a loss to understand why this should not be allowed.

The Catholic Club continues to have good speakers, and its meetings continue to be well organized and advertised. The Catholic Club at the Institute stands as an active argument to the effect that theism and science can get along together quite comfortably; and whether or not this argument can be accepted as conclusive, it must be admitted that such an organization of young men, honestly and earnestly endeavoring to unite in their own lives the ideals of two such mighty factors in human existence, is to be highly commended.

The kindness of the Boston Society of Civil Engineers in inviting Tech men to its meeting tonight is typical of the spirit shown by some outside organizations towards students. The cordial relations which men actively engaged in professional work strive to maintain with younger recruits is an instance of the "brotherhood of educated men," to which Mr. Chang made reference last Saturday night, and which contrasts favorably with the jealousy and narrow-mindedness

ENGINEERING AND SCIENTIFIC NOTES

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 true 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. Referring to this catalogue, he selects some star which is about to cross the meridian. He then sets his "time" telescope, which is mounted to swing about a horizontal axis and exactly in the plane of the meridian, at such an angle with the vertical that the star in question will pass through the field of vision. In the eyepiece of the instrument are stretched five parallel equally-spaced spider threads, the middle of these corresponding to the meridian. Perpendicular to these are two other threads which outline a sort of race track down which the image of the star will run as the earth rotates with exact precision about its axis. As this image touches each successive cross hair, the observer presses a telegraph key which automatically registers the exact chronometer time at that instant. The five readings obtained in this manner afford a much more precise value for the exact "chronometer time" of the passage of the star through the meridian than could be obtained by a single observation. Comparing this record with the time given in the star catalogue gives, 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 during the 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.

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**SMOKER FOR CIVILS
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**Mr. Louis K. Rourke Will Talk About
Openings in Municipal
Service.**

A meeting of the Civil Engineers will take place Thursday at eight in the Union. Mr. Louis K. Rourke of the Class of 1895 will address the meeting on his present work in Boston as Commissioner of Public Works. The talk will have more of a business than an engineering aspect and will deal with the openings for men in the municipal service.

Mr. Rourke was connected with the Engineering Corps of the Panama Canal before taking up his present line of work, and is known to many Tech men by his past talks. The last time he spoke was an informal talk delivered at the Surveying Camp last summer.

New members of the Society who have not yet signed the Constitution or who desire a pin may make arrangements for them at this meeting.

WRESTLING MEET

(Continued from page 1).

but a few extra names are retained in the 135- and 145-pound classes. The names of the successful candidates follow:

125-pound class—Means, Stebbins, Brown, Dumlick, F. L. Ford, Maloof, Dinnen, Campion, Haslam.

135-pound class—Kelley, R. Smyth-Martin, Blodgett, Durkee, Rounds, Astorian, Hoffman, Stevens, Newell.

145-pound class—Treat, Morse, Cooper, Peterson, Burke, Crosby, Perkins, Strout, Caton, W. C. Wood.

158-pound class—Walter, Goodell, E. P. Alexander, Tarpley, Mertz, Hannah, Bond, Swain, Harden, Otwater.

Heavy-weight class—Crowell, Leslie, Towry, H. L. Wood, Dowell (145).

The following are the extra members:—

135-pound class—Joslin, Berger, Polly, Beattie.

145-pound class—W. A. Wood, Tourtellotte, Lovenberg.

The Regiment now appears in uniform.

The Hockey Team Begins Practice today.

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**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. Stockdale, pastor of the Union Congregational Church on Columbus Avenue, will speak in the Union. Mr. Stockdale, who is well known to Tech men, not only 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 Inside of the Cup.'"

The pastor will discuss the book "The Inside of the Cup," by Winston Churchill, and will give his views on the criticisms which the author makes of the church. Churchill, in his work, contends that the church is not doing all it can for the working man, and is laying too much emphasis on creeds and not enough on living Christianity.

In dealing with Churchill's books and his criticisms, Mr. Stockdale touches upon a vital and universal problem. That Mr. Stockdale is competent to discuss such a question involving the church and the working-man, is evidenced by the fact that his long experience as pastor has brought him continuously in touch with the middle classes.

NEW CATALOGUE

(Continued from page 1.)

are numbered from 200 up, and Course XIV has its scores of studies numbered from 1400 up. In this manner a glance will suffice to tell what department a course of study belongs to.

The studies which belong to no department in particular are designated by the initial letter of the subject. "D11" for example would mean the drawing of the first term of the first year, and "D12" would mean the same course of study but in the second term of the first year.

The Physics Department presents an option in Industrial Physics, the latest addition to the courses already offered at the Institute.

COMMUNICATION

To the Editor of THE TECH:

Dear Sir—Many of my friends who buy your paper, as well as myself, have been annoyed by a minor point upon which we think improvement might possibly be made if you realized the extent to which it counts. THE TECH as it is sold to us in the morning, is rarely creased with any accuracy or neatness. I know that the creasing of a thousand papers a day would cause your business department more trouble than the benefits might justify, but I incline to the belief that no folding at all would be preferable to the careless work which is done at present—work which must, indeed, be re-done most of the time by one who, like myself, is sufficiently appreciative of the paper's good points to keep a file of his own; or who wishes to send a copy through the mail. In the hope that I have not engaged your attention with a point too trivial for your consideration, I am,

Sincerely yours,
Bicc.

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CROSS COUNTRY

(Continued from page 1.)

and beating out several of the men who had led him the week before.

Last Thursday he went into the N. E. ten-mile championships and won third place despite the fact that the officials gave wrong directions as to the course, which delayed the first men about three minutes. Saturday he ran in the M. I. T. Handicap Cross-Country Race, but lost his way. Had it not been for this, he undoubtedly would have won the time prize, and the record might have been broken.

Now that the leader of next year's team has been chosen, it seems to be fitting that a short glance be given at the prospects of M.I.T. for the coming cross-country season. Of those who ran at New York last month, four will be back next September. This year's Captain, A. F. Nye '14, will come to the Institute for his fifth year, but he will still be eligible for Intercollegiate competition, as he did not represent M. I. T. in his Freshman year. Always a consistent runner, this year Nye showed a marked improvement, which places him among the first cross-country men of the college ranks.

H. S. Benson '16, last year's star, who is still running a sterling race, despite his seeming slump, will also be back. Benson has really not slowed down. His times this year have been decidedly better than those of last year's work. The seeming difference has been due to the wonderful improvement on the part of the rest of the team. With the competition from the other members of the squad, Benson should be considerably faster by next October.

C. T. Guething '16 is the man who has shown the greatest change for the better. Fast on the track, he has always lacked the stamina for the gruelling of a hilly course. Discouraged by the mediocre showing of the beginning of the season, he was on the verge of dropping the long distance work. Coach Kanaly still hopes and prevailed on Guething to stick. Field Day's race changed him. At both of the intercollegiate runs he showed both speed and endurance. With this record to back him, after another season of track work, and then the regular cross-country work next fall, Guething should find no

difficulty in making the team despite the probable improvement of the other men.

F. J. Wall, who is out of the Institute for a term, will be back in January. Wall developed wonderfully last year and showed promise for the 1913 season surpassing his already enviable record. Last fall, Wall showed a consistent ability and ran second on our team in both big races. Given another season of track practice, having plenty of endurance, he should come across the ground in record time.

Of the men who failed to make the team, there are several whose records are good and who may be expected to improve considerably by next fall. L. E. Best '15 and M. G. Graff '16 were both possibilities for the team until foot trouble handicapped them. Best's performance in the B. A. A. run shows that much may be expected of him. Last Saturday, he covered the Wakefield course in very fair time, considering the weather. A year of track work should bring him through although he is not a reliable enough man to rely on at present. Graff ran in fast time at the beginning of the season, when he started to slow down. Whether this was entirely due to his foot or not is a question. With him too, another year of experience should make him of consistent worth. There are several Freshmen who have shown up well this year. J. J. Donnelly ran first on the Freshman team at Andover, besides running ninth on the Varsity Team against Holy Cross. A good half miler, there is every reason to expect a better showing next season. M. C. Brock and A. C. Litchfield are also showing possibilities and must be watched.

From the above survey of the men who have already been out for the work, without counting on any new men, the chances for an exceptionally strong team next season seem to be unusually bright. All the men have expressed their intentions of sticking to their work, and with the same display of spirit that characterized this season's training, we should have the best cross-country team in years.

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