

THE TECH

VOL. XXXIV. NO. 69.

BOSTON, MASS., MONDAY, DECEMBER 7, 1914.

PRICE THREE CENTS

FINANCIAL CAMPAIGN FOR T. C. A. FUNDS

**Complete Canvass Of Institute
To Be Made—Begins
Today.**

The Technology Christian Association today starts a vigorous financial campaign in the endeavor to raise some of the funds necessary for carrying on the work for the coming year. In another column of this issue there will be found printed the budget of the Association for the ensuing school year. The Association is unique, in that, as the largest undergraduate organization in numbers, at least, it has no system of compulsory dues. It depends entirely upon contributions.

The treasurer, N. E. Kimball, '15, has organized a body of men to carry on the work of getting contributions. The campaign will last for only three days, today, Tuesday and Wednesday. During this time practically every man in the Institute will be reached. The treasurer expects to break all records for raising T. C. A. funds.

CONCERT TICKETS

**Combined Musical Clubs To
Hold Winter Concert.**

Tickets and preliminary dance orders for the Winter Concert of the Combined Musical Clubs may be obtained in the Union from one to two any day commencing Thursday, December 10th. Persons wishing to obtain blocks of seats for the concert should obtain them in the Musical Clubs' office between five and six today, tomorrow or Wednesday.

The final performance before the Winter Concert will be given Saturday of this week at Wellesley.

TECH SHOW POSTERS

Publicity Manager E. L. Lucas will meet candidates for the Tech Show poster competition in the Show Office today at 5 p. m. to explain the conditions of the poster contest just opened.

The material will be judged by a committee composed largely of men outside the Institute. There is no restriction on the eligibility of contestants.

GUN COMPANY DRILL

The first drill of the new Machine Gun Company was held last Friday evening in the Cambridge Armory. About sixty men from Harvard and Technology were present.

CIVIL SOCIETY HAS AN INTERESTING TRIP

Very Cordial Treatment Received At C. P. Berger & Sons' Factory.

About thirty men enjoyed the Civil Engineering Society trip last Friday. The instrument factory of C. P. Berger & Sons was visited and the men were much pleased with the cordial treatment they received. Two sons of C. P. Berger showed them around the factory. The trip ended with a talk by the senior member of the firm, Mr. C. P. Berger, on test-

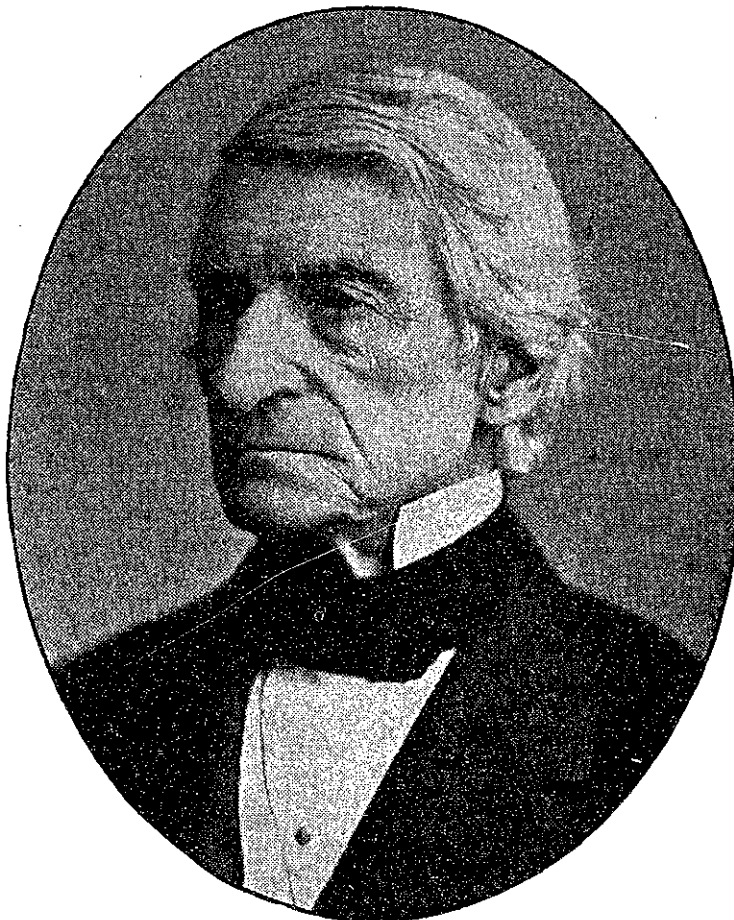
(Continued on Page Four)

MEMORIAL MEETING TO WILLIAM ROGERS

**Gathering To Commemorate
First President's Birth-
day This Noon.**

Today at 1.30 a convocation will be held in Huntington Hall in honor of our first president, William Barton Rogers. This is the anniversary of his birthday, and while no precedent has as yet established a definite form of ceremony for the day, something is usually done each year to mark the event. Two years ago the All-

(Continued on Page Three)



WILLIAM BARTON ROGERS

TECHNIQUE PICTURES

The picture of the Governing Board of Technique 1916 will be taken at Notman's on Wednesday at 1 p. m. On Friday at the same hour and place the 1915 Governing Board will be photographed.

TECH CANDIDATES

There will be a meeting of candidates for the Circulation, News and Advertising departments of The Tech in the lower office on Wednesday at 1.30.

ANNIVERSARY DINNER

A dinner will be given this evening at 7 to Professor Robert H. Richards at the Copley-Plaza in "recognition of his fifty years as a devoted Tech man and in expression of the respect and affection in which he is held by the Corporation, Faculty and Alumni."

PROM ELECTIONS

W. J. Farthing, K. Dean, P. H. Duff, J. M. Evans and O. B. Pyle were elected to the Junior Prom Committee last week.

CIRCULAR ISSUED BY CALENDAR COMMITTEE

**Specific Directions Are Given
For The Arranging
Of Events.**

The Calendar Committee has issued a circular which reads as follows:—

In order more effectually to prevent conflicts in the future, the Calendar Committee requests all Student Activities to observe the following suggestions:

1. See that the names and addresses of all officers of your organization have been posted on the Bulletin.

2. Notify the Committee as soon as possible of dates you desire held for meetings. This notification should be made before arrangements are completed, so that if the date has been taken, new arrangements may be made.

3. These arrangements for the Committee should be made on the blank forms obtainable at the Cage, and should be dropped in the mail box beside the Bulletin Board. Do not make such announcements on loose paper, as it is impossible to file such paper. All announcements should bear the name and address of the one requesting the date.

Within twenty-four hours after the request for the date has been made, the Committee will have at the Cage a notice addressed to the signer of the blank announcement, stating either that the date requested has been reserved, or that it already has been taken. In the latter case we earnestly request that a new date be set, and that a conflict be not insisted upon.

4. Notify the Committee promptly of any change or cancellation of a date set, or of any change in officers.

HOCKEY TEAM AT WORK

The practice of the hockey squad last Friday at the Gym consisted mainly in "shooting the puck," followed by the usual run.

CALENDAR

Monday, December 7, 1914.

5.00—Tech Show Poster Competition Starts.

1.00—Convocation. Huntington Hall.

7.00—Dinner to Professor Richards. Copley-Plaza.

Tuesday, December 8, 1914.

5.00—Executive Committee of Cosmopolitan Club meets, 8 Eng. C.

Wednesday, December 9, 1914.

1.00—1916 Junior Governing Board Pictures. Notman's.

1.30—Candidates for The Tech. Lower Office.

8.00—A. S. M. E. Meeting. Eng. Club Hall. Arlington St.

CONVOCAATION, HUNTINGTON HALL, 1.30 TODAY

THE TECH

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

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OFFICE HOURS

(Daily except Saturday)
General Manager 5.30 to 6.00 P. M.
Managing Editor 6.30 to 7.30 P. M.
Advertising Manager 5.00 to 6.30 P. M.
Treasurer 5.00 to 6.00 P. M.

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MONDAY, DECEMBER 7, 1914.

IN CHARGE OF THIS ISSUE.

Editor: E. W. Rounds, '17.
Assistants: A. P. Sullivan, '17; A. H. Wenzel, '17; A. N. Pray, '18.

Today marks the hundred and tenth anniversary of the birth of William Barton Rogers, founder and first president of the Massachusetts Institute of Technology. A man of exceptional ability, a man of ideals and undaunted courage, who, in the face of national strife and disorder, wrought not only amidst that disturbance, but from the chaos of educational ideals, an institution that, standing the test of time, bids fair to be an example for all other educational institutions, he stands today a personification of the true Technician.

The world is so prone to seek its own pleasure always that it has become the custom to turn even the act of reverence into a bacchanalian festival and to judge our appreciation for others by the amount we can consume at a banquet in their honor. It is not only more fitting, but infinitely more proper, that we, as students of an enlightened institution, should rather do honor in the true sense and, gathered in solemn conclave, hear retold the virtues of him whom we revere.

Coming from the South to the North, he found his educational ideal greater even than those ideas which rent a nation and, with untiring zeal and ardor that surpassed even human strength, he pushed to the fore, encouraging, teaching, inspiring, till death itself stilled his lips in the midst of an address to his graduates. As he sank, slowly, silently, that spirit which was no longer his own, but the spirit of that institution born of his labor, his love and his life, flowed into the souls of all Tech men, past,

COMMUNICATION

To the Editor of The Tech:

Last year a friend of mine in another college asked me how it happened that a school which could get over a hundred candidates out for its wrestling team could claim that athletics received little or no attention from the student body. I replied that our wrestling team had gone through two years without a defeat and that our schedule included many strong teams. He then said, "Oh, I see, your new men come out because they hope to get on a championship squad built about last year's team as a nucleus." It is a matter of record that a "championship squad" completed the season of 1913-14 without a defeat, due to the earnest work of the old men who coached the recruits, practically every afternoon of the wrestling season.

When the team came up against Beverly last Saturday they expected an easy victory, but before the bouts were finished they found it "rather a tough proposition." Perhaps Beverly was a little stronger than usual—it being rated as a poor team, but it was self-evident to any spectator that the Tech men were far from condition and decidedly out of practice.

A little inquiry around the Gym showed me that so far there have been no hours reserved for Varsity practice and that the Captain and the manager are rarely present when mat work is going on. No one seems to have any authority to regulate the work and one day last week I counted between twenty-five and thirty men engaged on the mat at the same time.

Taken as a whole the chances for (Continued on Page Three)

present and future, and we need not seek for the Spirit of Technology, old or new, for it is one with the spirit of William Barton Rogers.

The T. C. A. today starts a campaign for raising the necessary funds for the successful continuance of its work. At present, even more than heretofore, the organization is making its way felt through such forces as the freshman advisory system, the freshman reception, the well known T. C. A. talks and the active discussion groups. These activities are supported by voluntary contributions to its treasury. Since the work of the T. C. A. is designed to reach every man in the Institute it is the duty of every man to aid in its financial support.

The Tech takes great pleasure in announcing the following elections:

E. F. Hewins, '16, to the position of Managing Editor; on the Managing Board, H. E. Lobdell to the position of Assistant Managing Editor; and the following to the News Staff: H. N. Keene, '17; R. E. McDonald, '17; A. D. Nute, '17; E. W. Rounds, '17; F. A. Stearns, '17, and A. P. Sullivan, '17.

Has the Union Committee at last provided new record holders for the Union victrola? No; we have "Eddie" Pung of the Cage to thank. He is now cataloging and arranging them. Who said there was no public spirit at Tech.

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worry, I reckon
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di'ted by the grand jury.

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IT PAYS TO TRADE WITH OUR ADVERTISERS

T. C. A. PUBLISHES BUDGET FOR YEAR

Association Intends To Raise \$300 For Its Expenditures This Year.

The Cabinet of the Technology Christian Association has approved the budget printed below for the ensuing year. Since the Association embraces a very large number of students at the Institute, it will be of interest to not a few to see how much money the Association intends to spend during the coming year. The budget is as follows:

Social	\$50.00
Printing	50.00
Circular letters, stenog.	40.00
Postage	35.00
Speakers	10.00
Technique insert	10.00
Inst. Com. Dues	2.00
Office supplies	8.00
State Y. M. C. A.	10.00
International	10.00
Incidentals	25.00
Summer expenses & balance ..	50.00

Total\$300.00
This amount is not to be raised from any dues upon the members of the Association. The T. C. A. does not levy dues upon its membership, and its treasury department depends entirely upon contributions received from its members or from students at large. It has no dues because "all are not able to contribute an equal amount" and because "its work is not alone for its members and all should have the opportunity, therefore, to support it."

E. E. SOCIETY TRIP

Boston Elevated Power Station At O Street Visited.

The Electrical Engineering Society spent Saturday afternoon in the power station of the Boston Elevated Company at O street. The members first visited the machinery room where some time was spent in looking over the enormous turbines, dynamos and other machines. From this room the party went to the boiler room where some were fortunate enough to get a look into the huge furnaces. One interesting thing about the boiler room was the method of coaling the furnaces, which was done by machines. Coal was dumped in large quantities into bins on the front of the furnaces and an electric engine pushed the coal into the furnace by means of pistons. The next place visited was the switch room. Here were the switches controlling the current for most of the elevated system. The apparatus was, of course, the latest and was explained by the men in charge. The trip as a whole was termed a success.

The next event of importance to the society will be the meeting tomorrow at eight o'clock in the Union. Mr. Henry A. Morse of the Simplex Wire and Cable Company will be the speaker of the evening. Mr. Morse will speak on the manufacture of insulated wire and cable. The talk will be illustrated by lantern slides.

EXHIBITION MEET PROVES SUCCESS

The Wrestling, Gym and Fencing Teams Show Excellent Progress.

About seventy-five persons filled the bleachers at the Gym Saturday night and watched the Wrestling, Gym and Fencing teams in their combined exhibition.

A bout between Brooks, '16, and Wirt, '18, in the 158-pound class, began the Meet, and was won by Wirt on decision. In the 145-pound class Peterson, '17, won from DeSalve, '18, in 1 minute and 5 seconds. A fencing bout between Clark and Shakespeare was won by Shakespeare. Exhibitions were given by White, Bliss and Mendelsohn of the Gym Team.

In the 125-pound class Clark won from Means, and Sanger and Loo tied. In the 135-pound class Hoffman and Giles tied and Siegel won from Magoun in a novice bout. Shakespeare tied with McRae in a second wrestling bout. Mendelsohn, Bliss, Rogers, Demond and White exhibited their skill on the apparatus and the mat.

CONVOCATION
(Continued from Page One)

Technology dinner was held in honor of the occasion.

At the meeting today Mr. J. P. Munroe, a member of the corporation and a student under President Rogers, will give to the students those ideas and ideals which, originating in the mind of President Rogers, have caused to be builded and perpetuated the wonderful institution which he founded.

The story of the Institute, its founding, its critical periods, periods tided over by the sheer inspiration and zeal of President Rogers who, time and again in his declining years rallied to the helm and steered the great educational craft along its perilous course, will be told. President Maclaurin has requested that all Technology men attend.

CORRECTION

The property left in the lockers at the new field will not be confiscated as was stated in Friday's issue of The Tech. It may not be obtained, however, until the locker room is opened in the spring.

FACULTY NOTICE

The lecture on Color to Fourth Year architects, Monday afternoon, December 7th, will be postponed.

COMMUNICATION
(Continued from Page Two)

Technology victories when the squad comes up against a real hard team later in the season look mighty slim. If the Captain and the Manager do not take enough interest or are otherwise compelled to absent themselves they might at least appoint some one to see that the practice becomes something more than a "free-for-all" battle between the candidates for the team.

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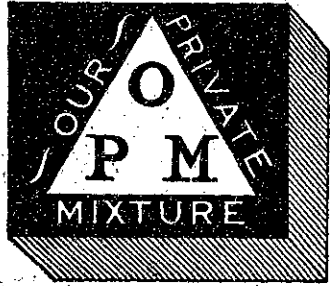
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C. E. TRIP

(Continued from Page One)

ing for accuracy after transit, level, etc., have been put together. The lens is first tested for infinite distance by a simple but ingenious device requiring only an actual distance of four or five feet. It is next tested for distances of eight feet. If both check the intermediate distances are accurate. The company have made machines, theodolites, transits, etc., exclusively for the U. S. Geological Survey, which requires most precise instruments.

Of especial interest were four machines for graduating transit circles into degrees, half degrees, etc. These machines are worth about five thousands dollars apiece. The circles must be smoothed off and polished very carefully before being put in the machine. The point which makes the graduations has to be very carefully sharpened. The machine can make graduated circles which can be read directly by microscopes to two and one-half seconds of arc. The circle to be graduated is left in the machine at night and when the graduation is finished the machine rings a bell which summons the watchman, who takes out the circle. The point which does the work is lifted up and the circle swings around automatically the required angle when the point is again automatically dropped.

As to the factory itself, there is nothing up around the ceiling but the belts. The main belt comes up through the floor to the main shaft. There are at least twelve other shafts connected with the main shaft and smaller belts connect these with the different machines. There are no large machines. Each machine is handled by one man. The glass for the lenses, which comes from Jena, is ground by one man who makes it his entire occupation. The level and transit parts of brass composition are cast in a little out-house in which the men were very interested. All unfit parts are rejected after careful examination. The machine for testing the focal length of individual lenses consists of a level supporting plate on which, at each end, supports for the level tube and lens itself are mounted. They are now made hollow in tubular form, which gives much greater strength. Instead of the metal finish a leather finish, so-called, is now used which is impervious to acids, water, etc.

CANDIDATES NEEDED

The Circulation Department of The Tech has still room for more new men. During the past week several new men have answered the call which was issued some time ago and are already in the work of the department. The need at present is not only for freshmen, but also, and more particularly, for Sophomores. The opportunities open for Sophomores lead eventually to the position of Assistant Circulation Manager, since that is a second-year position. Any men interested will find the Circulation Manager in the upper office practically every noon some time between 1 and 2 o'clock.

CONFERENCES TO BE GIVEN ON COURSES

Professors Will Meet First Year Students During Next Two Weeks.

A series of conferences for the benefit of the first year students will be held by the heads of the different departments for the purpose of helping the students in deciding their choice of course. The courses are divided into four groups for the second term. The first group includes Courses I, II, III, V, VI, VIII, XI, XII, XIII, XIII A and XV.

Course IV takes a different course in Mechanical Drawing; Descriptive Geometry and Freehand Drawing; it also adds courses in Shades and Shadows and French, and omits Chemistry and German.

Course VII adds Microscopical Laboratory and omits Mechanical Drawing and Descriptive Geometry.

Courses X and XIV have slightly different work in Mechanical Drawing and Descriptive Geometry.

The conferences occur as follows:

Course I and XI—Professor Spofford, Tuesday, December 8th, at 1.30 P. M., in Room 49 Eng. A.

Course II—Professor Miller, Wednesday, December 9th, from 1 to 1.30 P. M., in Room 11 Eng. B.

Course III—Professor Hoffman, Thursday, December 10th, at 1.30 P. M. in Room 2 Rogers.

Course IV—Professors Cram and Lawrence, Friday, December 11th, at 4 P. M. in Room 42 Pierce.

Course V—Professor Talbot, Monday, December 7th, at 1 P. M. in Room 6 Lowell.

Course VI—Professor Jackson, Monday, December 14th, at 1 P. M. in Room 6 Lowell.

Course VII—Professor Sedgwick, Monday, December 7th, at 4 P. M. in Room 27 Pierce.

Course VIII—Professor Cross, Monday, December 14th, Wednesday, December 16th, and Friday, December 18th, at 12 M. in Room 11 Walker.

Course X—Professor Walker, Tuesday, December 15th, at 1 P. M. in Room 11 Eng. B.

Course XII—Professor Lindgren, Wednesday, December 9th, at 4 P. M. in Room 10 Pierce.

Course XIII—Professor Peabody, Wednesday, December, 16th at 1 P. M. in Room 32 Eng. C.

Course XIV—Professor Goodwin, Thursday, December 17th, at 4 P. M. in Room 23 Walker.

Course XV—Professor Dewey, Friday, December 18th, at 1 P. M. in Room 40 Rogers.

CATHOLIC CLUB

A very successful meeting with a large attendance was held by the Catholic Club in the Union Thursday evening. The Spanish-American students were the guests of the evening and Rev. Father Carballero, of South America, a Professor of Science at Boston College, spoke in Spanish. He talked about the American spirit and its easy cosmopolitan character as contrasted with certain conditions on the other side of the water. He also emphasized the need of more attention to religious matters while far away from home influences.

**TECHNOLOGY DEFEATS
CAMBRIDGE Y. M. C. A.**

**Basketball Team Plays Good
Game Against Cambridge
—Poteat Stars.**

The Technology basketball five defeated the Cambridge Y. M. C. A. team, 26 to 18, at the Cambridge gymnasium last Wednesday evening. At the end of the first half Technology was behind, 14 to 4, due to having started with a team composed mostly of second string men. In the second half, however, Manager Rausch's men came back strong, scoring 22 points to four for Cambridge. Poteat played a snappy game and Smithie, who played for Randolph-Macon before coming to the Institute, appears to be a real find. Captain Morse and Hudson, who played on the 'Varsity four years ago, have been showing up well this year. Gokey, Kendell and Rausch of last year's freshman, and Miller, Ross and Merit of last year's Sophomore teams, are considered promising material.

The summary of Wednesday's game follows:

TECHNOLOGY C. Y. M. C. A.
McQuaid, Rausch, rf .. lb, Gustavson
Miller, Smithie, lf rb, Atchison
Gokey, Morse, c .. c, White, Moxson
Wilson, Kendell, rb lf, Foss
Poteat, Hudson, lb
rf, Cummings, Anderson

Score—Technology 26, Cambridge Y. M. C. A. 18. Goals from floor—McQuaid 2, Rausch, Smithie 6, Morse 3, Kendell, Cummings 4, Foss, Atchison, Gustavson 3. Referee—Tuttle. Timer—March. Time—15 m. periods.

Many fine trips have been arranged for the team, although the schedule is not yet complete. To date the following games are scheduled:

- Dec. 30 Georgetown Univ. at Washington, D. C. (Provisional.)
- 31 Navy at Annapolis, Md.
- Jan. 30 Clarkson Tech at Pottsdam, N. Y.
- Feb. 1 St. Lawrence Univ. at Canton, N. Y.
- 3-4 Union Univ. at Schenectady, Rensselaer at Troy, N. Y., Syracuse Univ. at Syracuse, or Univ. of Rochester.
- 6 Wesleyan Univ. at Middletown, Conn.

- 20 New Hampshire State at Durham, N. H.
- 22 Colby College at Waterville, or Univ. of Maine at Orono.
- 27 New Hampshire State College at Tech.

Games have also been arranged for with Penn State at Penn and probably Juanita College at Juanita.

**REV. A. R. WILLIAMS
SPEAKS IN UNION**

**Subject: Through The German
Line And Arrested
As A Spy.**

The Technology Christian Association had for their speaker last Thursday noon in the Union the Rev. A. R. Williams, who gave a very interesting talk on his own recent experiences on passing through the German lines and being arrested as a spy. A large number of men were present to hear him.

The speaker described his several arrests, first by the Belgians, later by the Germans, and finally in Brussels. This last arrest took place on September 26th. He had stepped out of the hotel where he was stopping in Brussels and on his return, he was told that an American wished to see him. Mr. Williams invited this supposed American to his room where the two might talk in private. When the man had entered the room, he proved to be a representative of the Imperial Government of Germany, come to arrest Mr. Williams.

The arrested man was taken to the military headquarters in Brussels and into a room at the headquarters where about thirty-five people were confined. He was searched and all papers that were found were taken from him. That morning, Mr. Williams had written some of his experiences on a slip of paper. This was taken and in his trial, which took place the day of his arrest, was used against him.

Mr. Williams was put through a rigid examination. One of the questions asked was what his occupation was. On answering that he was a minister he was asked to prove the fact. At the close of the examination, the prisoner was led by four soldiers to the top of the building, where all the prisoners were confined.

(Continued on Page Six)



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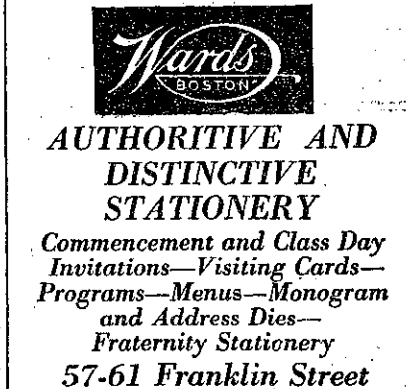
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JUNIOR CHAMPIONSHIP ENTRY BLANKS OUT

Events Will Be Held In Brooklyn
—Large College Entry Expected.

Entry blanks were sent broadcast last week for the Junior Indoor Championships of America, which are to be held Tuesday evening, December 29th in the 13th Regiment Armory. Eleven championship events are on the program as follows: 220 yard dash, 600 yard run, 1000 yard run, 2 mile run, 1 mile walk, 60 yard hurdle, standing high jump, standing broad jump, running high jump, and 12 pound shot put. These events are open to all registered amateur athletes who have not won an A. A. U. Championship, Canadian Championship, an Intercollegiate Championship or the Championship of any foreign country. The prizes are the regulation solid gold, silver and bronze medals emblematic of the Junior Championship of the United States. A handsome banner is also offered to the team scoring the highest number of points.

The college entry this year is expected to be larger than ever and all entries will close December 22, 1914, with Fred W. Rubien, Chairman of the Championship Committee, 21 Warren Street, New York City.

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All members of Phi Delta Theta now connected with M. I. T. are urged to communicate with E. A. Ingham, Dept. of Biology.



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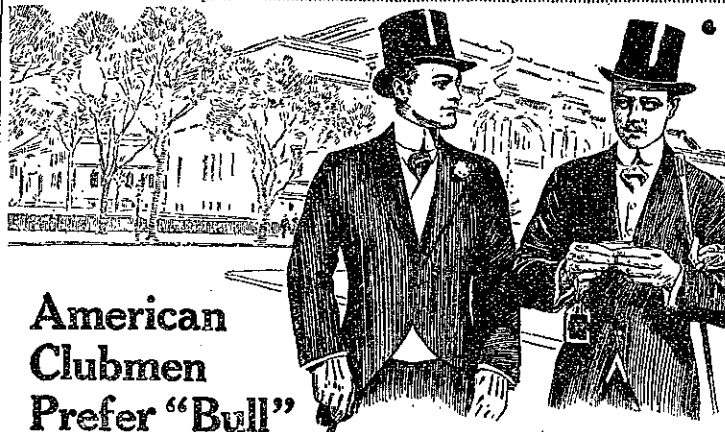
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REV. WILLIAMS SPEAKS (Continued from Page Five)

A restless night was spent, with nothing but the hard floor to sleep on.

The next day was spent in gloom until late in the afternoon, when sentences were pronounced on several of the prisoners. About six o'clock, a German officer came into the room and desired to see the "American," referring to Mr. Williams. The prisoner was led out into another room where a group of officers were. He then went through another trial and the question was again raised about his occupation. The only proof Mr. Williams could give was an inscription on the back of his watch, "From friends of your church." This, however, was sufficient to bring about his release.

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