

TIME TRIALS HELD IN QUARTER MILE

Work of Track Team in Preparation for Meets With the Naval Militia and at Meadowbrook Progressing

1920 AND 1921 TO RUN

Time trials in the quarter-mile were held on the board track last Saturday afternoon for all candidates in running events. There were over sixty-five participants, the majority of whom were freshmen, although the Sophomores were also well represented. Several good records were made with the following men showing up especially well: Avery '16, McCarten '19, P. Scott '21, Halfacre '18, and Burdes '21. Coach Kanaly expressed himself as well pleased with the showing made as a whole and announces that trials in the mile will be held tomorrow. The primary purpose in holding the trials was to give an idea as to which men are the most likely candidates for the relay team which is to represent the Institute in the annual Pennsylvania Carnival Relay games on the 26th and 27th of April at Franklin Field, Philadelphia.

The team selected will also run in the Meadowbrook and annual Naval Militia meet at Hartford, Conn., although as yet Coach Kanaly has not heard from Meadowbrook. It is expected that something definite will be received this week and present indications point to a favorable reply.

Plans are now well under way for the annual duel meet between the freshmen and Sophomores on March 9, and practically every representative of the two classes on the track team has signified his intention of entering. This assures a large number of competitors and keen competition for honors. This meet will mark the close of the indoor season and all work on the board track.

The active work and training will again be resumed on March 18 with practice being held on the athletic field instead.

L. E. BOYDEN '20 CHAIRMAN OF T. C. A. DEPARTMENT

Laurence E. Boyden '20 has been appointed chairman of the Student Service Department of the Technology Christian Association. He will appoint the chairmen of the following committees of his department: Foreign Students, Information Bureau, Book Exchange, Room Investigation, Freshman Advisors, Employment. The work of these committees is indicated by their names. The Freshman Advisors Committee selects one hundred upper-classmen to each one of whom are assigned four freshmen whom he is to help with their registration and assist generally until they have become acquainted with the ways of the Institute. The Employment Committee endeavors to find employment for those students who desire it.

TALKS AT THE MUSEUM ARTS

The speakers who have been obtained for the next of the series of Sunday afternoon talks at the Museum of Fine Arts are: Mr. George B. Dexter, who will speak on the stories about some chests in the museum in picture reserve Room II of the Evans Memorial Galleries, at 3.15 o'clock; and at 4.00 o'clock Mr. Walter W. S. Cook will speak on the Spanish painting in the Museum in Gallery IV of the Evans Memorial Galleries.

TECH SHOW CHORUS TRYOUTS.

Next Friday afternoon at 5.00 o'clock tryouts will be held in the Caf in building 2 for the chorus of Tech Show, 1918. The chorus this year will be of necessity reduced in concordance with the rest of the show, but its quality will be kept up to the standard shown in former years. There will be a chance for every one who has any ability in singing to show where they fit in this year's show, and the management wishes to see a large attendance at the meeting.

PROVISIONAL TECH SHOW CAST WILL BE ANNOUNCED WEDNESDAY

Results of Rehearsals Show Need of Development of New Talent

Last Tuesday evening a rehearsal of those who are trying out for parts in the cast of Tech Show was held in the Caf. Coach Duncan was in charge of the rehearsal and he went through the first act of the manuscript twice, using a new set of men each time and substituting other men from time to time. The rehearsal ran along very smoothly considering the number of men that were trying out. No parts have yet been definitely assigned but the provisional cast selected by Coach Duncan will not be published as yet. Mr. Duncan is very well satisfied with the work of the men thus far, but the Show this year will require the development of quite a little new talent and he has quite a task before him. However, from the material which has presented itself thus far, several men have appeared very promising. The next rehearsal will be held Tuesday evening, March 5, in the Caf, and only those men who survived the cut made by Coach Duncan at the last rehearsal need report. The result of the cut will be announced in the next issue of The Tech.

Today at 5.00 o'clock there will be a chorus rehearsal in the Caf, and all men who are not trying for parts must be there. Although the music and lyric competition has been closed for some time the entire selection of the music and lyrics has not yet been announced. It was stated that Hedlund, Gage and Collins are writing music and McGregory, Colye and Stam are writing lyrics. It is hoped that the complete list of musical numbers and their authors will be announced next week.

JUNIOR DINNER

Class of 1919 to Hold Its Annual Gathering in Walker Tomorrow

The annual dinner of the Junior Class is to be held tomorrow evening at 6:00 o'clock in the Walker Memorial. While as yet none of the definite arrangements have been made public it is expected that the affair will prove to be an important one for the Class of 1919, especially so since this will probably form its last large gathering before its contemplated graduation in September.

The committee on entertainment has not given out a complete or final program but the class officers assure everyone that a good time is certain. Although those in charge of the entertainment have been somewhat unsuccessful in securing speakers for the occasion, it is understood that Professor Miller of the Mechanical Engineering Department will give an interesting talk to the men D. Oscar Mayes '19, the editor-in-chief of the Junior year book is expected to speak on the work of Technique 1919, at which time an announcement will also be made concerning the appearance of the 1919 Portfolio in the annual. It is likewise anticipated that Mayer will speak on the Tech Show 1918 of which he is the publicity manager.

All Juniors who expect to attend the dinner should procure tickets from the class representative in their course at once. The price is one dollar a plate.

WAR DEPARTMENT NOTICE

The following memorandum, dated February 25, has been received by Major Cole from the office of the Secretary of War, Washington, D. C.:

"Students of any institution maintaining a unit of the Reserve Officers' Training Corps who are ineligible for membership in the Reserve Officers' Training Corps on account of age, nationality, or physical disability, may be attached to the unit for military instruction and training, but will not be counted in the strength of the unit and will not be entitled to any of the special benefits authorized for members of the Reserve Officers' Training Corps, such as uniforms, commutation of subsistence, etc. They will, however, be permitted to use the Government arms, tentage and equipment issued to the institution."

—By order of the Secretary of War.

PROF. E. B. WILSON TALKS ON AIRSHIPS

Institute Professor Lectures to Aviators—First of a Series of Talks on "Principles of Aeronautics"

ONE THOUSAND ATTEND

Under the auspices of the Lowell Institute, Dr. E. B. Wilson, Professor of Mathematical Physics at Technology delivered the first of a series of lectures on the "Principles of Aeronautics," last Monday evening, to an audience of nearly a thousand. A large number who attended the lecture were from the Naval Aviation School quartered in Walker Memorial. Professor Wilson chose for his subject "Balloons and Airships; Montgolfier to Zeppelin."

Due to the fact that the French were able to destroy a number of Super-Zeppelins last October some information is thereby afforded as it is the type of airships the Germans are now using.

One of these monsters of the air was brought to earth by the French in almost undamaged condition. It showed a length of 650 feet, and diameter of 82 feet. Its cross-section showed a polygonal form as Zeppelins did before the war, but, whereas the earlier types had 17 sides, the new specimen had 25. The dirigible's five engines aggregated 1200 horsepower and developed a speed of 60 miles an hour. It had a hydrogen capacity of 2,000,000 cubic feet and could rise to a height of 33-4 miles with a lifting power of 60 tons. Of this weight 22 tons were the super-Zeppelin's own while of the remaining 38 tons the majority were devoted to ballast, leaving about nine or ten tons for fuel and bombs.

The hull was constructed of metal and the upper half of the balloon was painted cloud-gray and the lower half black, both with the object of securing low visibility. It has also been said that some of these ships are fitted with a device for casting a smoke screen to windward as a further means of concealment and protection. Eighteen separate gas bags, or balloonettes, were used in its construction, arranged in this way so that several of the bags might be pierced by gunfire and still not "sink the ship." These were found to be lined with goldbeaters' skin, and Professor Wilson remarked that the material was undoubtedly the best that had yet been discovered for the purpose. The most carefully rubberized cloth will leak hydrogen, sometimes at a rate of nine liters per square foot of surface per day. This loss is considerable, and for military purposes is probably worth offsetting, even at the cost of using such expensive material as goldbeaters' skin.

Precisely what developments are to be expected in German aerial policy it was impossible to say, Professor Wilson maintained, but it seemed apparent that, since the destruction of the great fleet in October, the Germans had much decreased their use of the big dirigibles and their reliance upon them for raiding. Previous efforts to put the super-Zeppelins to rout had not attained much success. The flaming bullet, invented by the English, was relied upon to put them out of action, since this bullet, taking fire as it did, could destroy the whole ship, whereas ordinary bullets might only pierce two or three gas-bags and leave the rest still buoyant. Two or three Zeppelins were brought down in this way, but still the Germans, by various methods of concealing the ships in flight, continued to send them over England. Since the destruction of the fleet accomplished by the French, however, the news had indicated that they are using airplanes more and more in their raiding, even for the distant flights.

Early Days in Ballooning
Such was the picture Professor Wilson drew of the latest type of balloon airships. Very different was the story he told of the first balloon ascension authoritatively recorded by history.

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PROFESSORS FAY AND MOORE TO ADDRESS CHEM. SOCIETY

Former to Speak on Difficulties of Munitions Chemists

Professor Fay of the Institute will speak on the difficulties of munitions chemists at a meeting of the Chemical Society to be held March 7 in room 4-270 at 7.30 o'clock. Professor Fay is the consulting chemist of the Watertown Arsenal, is connected with the Winchester Arms Company, and has had considerable experience in the character of chemical work which is necessary to the munitions industry. His talk two years ago on "The Life of Big Guns" will be remembered by many students. Professor Moore of the Institute will also address the members of the society on the various explosives used in the war and will probably illustrate his talk by experiments with samples of some of these explosives. New officers of the society will be installed at the meeting. All men who are interested are invited to attend.

"MIKE" AND HURLEY RACE

Age With 27 Yard Handicap
Ties Youth in 150 Yards

One of the most interesting events of the track trials on Monday was a race between "Mike," the groundkeeper of the athletic field, and Hurley '21, captain of the freshman football team, over a course of one hundred and fifty yards, resulting in a dead heat. "Mike" was given a handicap of twenty-seven yards over Hurley, who has the reputation of being a fast man, and came very near defeating his more youthful opponent. Old age and relative inactivity showed their effects, however, and youth was able to hold its own. "Mike," as the name indicates, is a descendant of the race from Old Erin and is still imbued with that "pep" which characterizes his race (not the one hundred and fifty one, either, although quite a bit of "pep" was displayed in it). In his earlier days when he was in his prime for athletic events and capable of furnishing the greatest amount of athletic energy demanded, he participated for the most part in long distance races, particularly the five-mile. According to his group of supporters on the track team, of whom there were many, he was not such a bad athlete, either.

The men attending the trials last Monday were about evenly divided in their sympathies between the two contestants with betting odds 2 to 1 (but it is not the policy of THE TECH to quote bets, so the readers will have to guess).

DORMITORY DANCE TO BE HELD IN WALKER

There will be a dormitory dance held a week from tomorrow, Saturday, March 9, in the Walker Memorial. Dancing will begin at 7:45 o'clock and continue until 11:45 o'clock.

Harrington's Jazz Band will furnish the music, which is to consist of the latest popular dance pieces. The program has not yet been definitely arranged, but it is expected to be of the conventional sort in the addition of a specialty number, the nature of which is not yet known. This specialty, however, should prove to be the feature of the evening.

The men living in the dormitory who have paid their tax will be admitted free. Others may obtain tickets at the regular price, seventy-five cents per couple. These tickets are limited to fifty and will be on sale beginning today. Those desiring to purchase them may do so from either A. J. Daube '19, P. F. Swasey '19, W. N. Barron '20, or M. M. Witticher '20.

"MAT" BRUSH WILL SPEAK ON TUESDAY

President of Boston Elevated Railway to Talk to Electricals on Means of Success for Young Engineer

ELECTION OF OFFICERS

"Mat" Brush '01, has arranged to give an informal talk on the means of success for a young engineer, at the next meeting of the Technology student branch of the American Institute of Electrical Engineers, which is to be held Tuesday evening, March 5, in room 2-190. Mr. Brush is still in this thirties but nevertheless holds one of the most responsible positions in Massachusetts, in the capacity of president of the Boston Elevated Company. The tact and principle which must be used by the holder of such an office is well exhibited by the head of the corporation, which controls one of the most complicated street railway systems in the country, and which at present is undergoing the greatest crisis ever presented in the history or any street railway. The great difficulty of appeasing the demands of stockholders, employees, and the public, all of which are in opposition to each other, is a feat which President Brush is truly accomplishing.

The cause for all this successful management, even in times such as these, Mr. Brush attributes to his contact with men of both business and engineering interests, and to the personality which it develops. He thinks that but for his knowledge of human nature and business, he would never have attained the success which now crowns him. Starting his career after graduating from the Institute, in a small western railroad as an operating mechanic, he was rapidly advanced, not by his success alone in mechanics, but by his contact with men holding important positions in railroading and other forms of engineering. In his lecture Mr. Brush will attempt to explain the way in which one should get into personal touch with the world and then easily succeed.

One rather interesting trait of "Mat" is his system of registering all the important people whom he meets. He accomplishes this by a card index in which he files the name, position and personal characteristics of everyone with whom he may in the future be concerned in business. By this system Mr. Brush keeps a record of those men whom he can call upon, or whom he may at any time employ in some service. This and other traits help to distinguish Mr. Brush as a man of good business standing. His talk is one that all should attend.

Before the lecture by Mr. Brush, an election will be held by the Society for the purpose of choosing an electoral committee. This committee is composed of four Juniors and one Senior, whose duty it is to arrange the date of the nominations and elections and attend to the papers and ballots connected with them. The officers to be elected are president, vice-president, secretary and treasurer, their period of holding office extending from the end of this term until one year from that time. For the final nominations each nominee must have on his papers the names of five members in good standing of the Society.

After the meeting a buffet supper will be served in the "Caf."

CALENDAR

Saturday, March 2, 1918
6.00 P. M. Junior Dinner in Walker Memorial.

Tuesday, March 5, 1918
5.00 P. M. Tech Show Cast Rehearsal in the Caf.