

THE TECH

VOL. XXXII. NO. 69

BOSTON, MASS., SATURDAY, JANUARY 4, 1913

PRICE TWO CENTS

PROSPECTS POINT TO GOOD RELAY TEAMS

First Trials Today and Wednesday—Entry Books for Class Meet Open.

Although the indoor season has scarcely begun, the candidates for the relay team have already made great strides, and most of the men are showing very good form for this season of the year. Although the majority of the members of last year's team have left the Institute, or will be unable to run, present appearances indicate that their places will be admirably filled by some of the Freshmen and candidates for last year's teams. The trials for the 390-yard men will be held this afternoon, and, although these are only preliminary trials, they will, in a great measure, show the calibre of this year's relay team. However, no one will be sure of a place on the team until after the final trials, which will be held shortly before the mid-year vacation. Coach Kanaly also announces that these trials are open to everyone in the Institute. The preliminary trials for the two-mile team will be held on Wednesday, January 8th, in the Gym.

Before the Christmas vacation, and also during the past week, Coach Kanaly has been giving all the candidates time trials to see how they were coming along, and to get a line on the men. Upon this basis he has picked fourteen men who, he expects, to do the best in the 390-yard trials. The competition, he says, will be extremely close between the following men: T. H. Guething, Bolton, Munch, Wilkins, Adams, Reed, Barry, O'Brien, Burton, Curtis, Hine, Comiskey, Lieber and Thomas. In addition there are several of the candidates who are likely to prove to be dark horses, and upset all calculations. The candidates for the two-mile team have also been tried out, and Coach Kanaly has prepared a list of fourteen men who, he expects, to furnish very keen competition. These men are: E. B. Germain, C. T. Guething, H. S. Benson, Hill, A. R. Stubbs, Dean, Roper, Hastie, Zepfler, Freethy, E. E. Gagnon, R. H. White, Page and H. P. Gray. As is the case among the 390-yard men, there are a few men who may surprise the talent and win a place on the team.

The annual open indoor inter-class athletic meet has been scheduled for January 10th, Friday of next week, at 7.30 o'clock in the evening. The winners in this meet will be awarded numerals, and this offers a fine chance to men who have not yet won these insignia. The Freshmen, especially, have a wonderful opportunity, since they greatly exceed the other classes in the number of men out for the teams, and have many good men among them. However, this excess of candidates will only reap seconds and thirds in the majority of events, and the competition for class honors will be very close. The entry books for this meet have been placed in the Union, and all desiring to enter should post their names in the books.

During the past three years a quarter of a million new telephones have been installed in various farm houses throughout the country.

MUSIC COMPETITION TRYOUTS TODAY

Contestants Meet in Union at 3.00—Any Instrument May Be Used.

This afternoon the tryouts for the music competition will take place in the Union at 3 P. M. sharp. All men submitting music are requested to have it in such condition that they can play it smoothly, and they must also have a written copy of the "air", which is to be left with the Show management, provided that the song is accepted.

Contestants may play their compositions on the piano, or they may bring any instrument with which they are familiar. It is not necessary that the writer of the music should play it himself provided he can arrange with someone to play it for him.

The trials will start promptly at 3 o'clock, and it is absolutely necessary that all contestants be present at the start, in order that their compositions may be considered in the contest. Every man who has any idea whatsoever about music for the Show is urged to come around and play his part. There are many songs to be written, and according to present indications there are only about half a dozen men who are writing music for the Show.

PORTFOLIO BALLOTS.

Those Elected to Committee Prominent at Institute.

The results of the 1913 Portfolio ballots show very close voting. Those elected to the committee are R. B. Haynes, W. N. Holmes, R. B. Nichols, H. M. Rand and A. F. Brewer. Holmes has been prominent in Institute activities, being class president his Freshman year, and a member of the Prom Committee last year. Nichols has likewise been a class officer and a member of the Mandolin Club. During his Freshman year Rand pulled on the tug-of-war, and was a class officer. Brewer has been among those who have written successful Tech Show lyrics.

The voting was as follows: Barnes, 19; Caldwell, 29; Clark, 28; Currier, 21; Forrester, 21; Haynes, 35; Herbert, 31; Holmes, 49; Nichols, 54; Rand, 43; Randall, 28; Redfern, 11; Richter, 27; Brewer, 40; Glidden, 33.

READINGS AT PLAZA.

A number of selections are to be given by prominent readers at short intervals during the next few months at the Copley-Plaza. Students' tickets may be obtained at the door at a special reduced price, fifty cents.

On January 9, Mrs. Marion Craig-Wentworth will give readings from "The Play of Milestones," by Arnold Bennett and Edward Knoblauch. At some date to be announced later, Mr. Percy Mackaye will speak on "Yankee Fantasies."

Sir Thomas Lipton has promised a \$5,000 silver challenge cup to the Winnipeg Rowing Club, to be rowed for by crews from the United States and Canada.

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THE TECH ADVISORY BOARD EXPLAINED

Purposes and Accomplishments of This Innovation of Last Year.

THE TECH Advisory Board was instituted last year in order to secure for the undergraduates working on the paper the advantages of consultation with older men who, having been out of school for several years, are possessed of considerably more business experience. It was also designed to insure a square deal and unbiased judgment in elections. The Board, also, being permanent while the undergraduate officers change from year to year, is expected to impart stability to the organization, forming a sort of "anchor to windward."

It is composed of two Alumni and two undergraduate members. These positions are at present held by T. E. Seers, Governor Marcy, H. D. Peck and A. T. Gibson.

The powers of the Advisory Board are mainly, as its name indicates, advisory; but it also audits the financial accounts of the business department. Also, every nomination for a position on THE TECH must have its approval before going to the Institute Committee for final ratification. This last-named supervisory power is used chiefly in excluding from THE TECH men who are so low in their studies that they are deemed unable to carry on the work.

BASKETBALL GAMES.

1914 Plays New Hampshire State 1915 Lacks Regular Practice.

Today, at 4 o'clock, the 1914 basketball team leaves here for a game with New Hampshire State College. The team is in excellent condition, and Manager Ruoff expects to pull off a win, yet not until after a pretty fast game. The following men will take the trip: Captain Williams, Fox, Bryant, Tyrell, Comber and Ruoff.

The 1915 team is scheduled to play St. John's on January 11th, but Captain Morse is having a hard time to get the team to practice regularly. He wants the men out on Wednesday and Friday afternoons. He says that any new candidates that come out now will have a good chance of making the team. The following men have been showing up regularly: Captain Morse, Newman, Colby and Quirk.

Things look pretty quiet for the 1916 team just now, as they have an open schedule until February 12th.

JUNIOR PICTURES.

Any men who have not yet received their class pictures may now obtain them by application at the Technique office. This applies only to those who have already ordered their pictures, as no more orders can be received now.

Owing to a misunderstanding with the photographer, all the number three pictures which have been received are without the class numerals. The correction of this error will mean a delay of about three weeks to those who ordered this number.

MR. BLOOD SPEAKS BEFORE ELECTRICALS

Interesting Talk on "Suggestions For Young Engineers"—New Officer.

Last evening, at about 8 o'clock, the members of the Electrical Engineering Society met in the smaller room of the Union. The feature of the meeting was a talk on "Suggestions for the Young Engineer," by Mr. Blood, of the Stone & Webster Corporation. Mr. Blood proved to be most capable of advising the men present, for he spoke considerably of his own experiences in making his success.

Mr. Blood graduated from M. I. T. as a member of Course VI with the class of '88. He has had a varied career in the electrical business. He first told of his experiences after leaving Tech, and related several very interesting anecdotes about what electrical engineering was just at that time, twenty years ago, in comparison to what it is at present. He also interested the men considerably by citing a few problems in that line which he encountered.

Mr. Blood then continued by saying that the young engineer just starting out in life is too liable to become discouraged. He said that the engineering business is the right business for the energetic and ambitious man. There are many opportunities. After graduation the engineer has only acquired a good foundation upon which to start to build. He has merely acquired a "potential capacity." His education has not been too practical and he has much to face at the start.

The speaker emphasized the fact that the engineer should not let his ambitions carry him away. He must have patience and should be satisfied with slow and steady advances. He will receive many knocks, but he will eventually profit by these knocks, and the more he gets of them the better. One essential is that he must not be afraid to work, to work hard and under all conditions, and with all kinds of associates. Here Mr. Blood told how he read of a Tech man who had just been promoted to the executive position of his firm. This particular man had spent his first days working in jumper and overalls out West on a railroad. It was a hard grind, but with plenty of determination and resourcefulness he succeeded.

The engineer has no set rules which he can apply to his problem. There is no book or table to follow. He must study the conditions and use his reasoning power to solve that problem. An essential in engineering is to use all data available, and

(Continued to Page 3, Col. 3.)

CALENDAR.

Saturday, January 4, 1913.
Show Music Competition closes.
2.45—Indoor Track Meet—M. I. T. Gym.
8.00—N. E. Wireless Society Meeting—Harvard.
Monday, January 6, 1913.
1.15—Senior Class Officers' Pictures—Notman's.
1.30—T. C. A. Meeting—Union.
5.00—Banjo Club Rehearsal—Union.
8.15—1914 Basketball—West End Athletic Club.

THE TECH

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SATURDAY, JANUARY 4, 1913

We are glad to publish another of the editorials presented in the Pi Delta Epsilon contest. This contest has now closed and the winner will be announced on Wednesday, January 8th.

ALL-TECHNOLOGY.

Nearly a month has passed since the All-Technology dinner. Before, during, and for a few days after this dinner there was much all-Technology spirit shown. Advertising was done, speeches were made, burning editorials were written. Now that it is all over, and that the heat of reaction has abated, we would do well to look at the matter a little more calmly, and see what it really ought to mean to us.

We know that the founding of the Institute was the life-work of President Rogers; we know that he threw into it all the energy and ability at his command, and we know that today the little school which he founded has become the greatest school of industrial science which the world has ever seen. A leader in scientific thought and enterprise, a pioneer in the system of education for which she is famous, Technology stands an institution which, none the less truly because at times indirectly, is doing an incalculable amount of good for humanity. Where huge dams and docks and bridges are to be constructed, where great food and water problems are to be solved, where beautiful buildings are to be built, or the health of a metropolis is to be preserved, there stands the Technology man—a leader.

William B. Rogers has done his work. He has run his race, he has fought his fight, and he has stepped out into the Infinite. To us who are treading the path he broke the world is looking for the courage, the perseverance, the bigness which made him noble. We face a responsibility which we cannot evade, and which we should try, as humbly and as earnestly as we know how, to meet and to discharge. If we do our best we shall not fail, and in not failing we uphold the honor of our Technology; we do a man's work in a man's world, and we lead the life of service.

WRESTLING TEAM.

Last night, at the meeting of the N. E. A. U., held at the B. A. A., the M. I. T. wrestling team applied for reinstatement in the organization. It will be announced in THE TECH in a few days whether their application is granted or not.

BISHOP N. S. THOMAS TO SPEAK FOR T. C. A.

Missionary Bishop of Wyoming Will Speak in Union Monday.

Bishop N. S. Thomas, of Wyoming who speaks in the Union Monday, at 1.30 P. M., at the regular meeting of the T. C. A., is just as enthusiastic in boosting his State as in seeking to interest Boston Episcopalians in the work of his church. He knows his State; he has traveled all over it, on horseback, on handcars, by automobile and afoot, and he knows its possibilities. Hence his address should be of interest to Technology men, especially to mining engineering students, for Wyoming is a mining country, and much of Dr. Thomas' work is among miners.

Although Bishop Thomas is in the East primarily in the interests of his church, he is going to put aside his main purpose on Monday and tell some of his interesting experiences as "Missionary Bishop" of the great State of Wyoming. Many know, through the books of Ralph Connor and Norman Duncan, of the work done by these men sent to the frontier by the churches. Preaching is (Continued to Page 3, Col. 2.)

COMMUNICATION.

To the Editor-in-Chief of THE TECH:

Dear Sir:—Perhaps the most public evidence of the undergraduate life at Tech is the bulletin boards. These boards show to a great many outsiders the more significant parts of the few important activities at the Institute, and from them they form ideas of the scope of our interests. Also, probably far more lasting to the general spectator is the impression made by the neat and orderly appearance of the notices. Committees have been instituted in the past to try to improve the general trend of the posters; but the matter will be pushed harder now than ever before. Freshmen have heretofore been appointed, but as things have not progressed as fast as was urgently needed, two Sophomores have now been appointed by the Institute Committee to form a bulletin board committee. This committee will have general charge over and be responsible for the general appearance of the boards, while individual responsibility for the various buildings will be divided among the Freshmen. A standard of neatness will be set and those falling below it will be given one day's notice before removal of their posters. A uniform poster, to be sold at cost, has been suggested, but this has yet to be acted upon by the Institute Committee. This poster, if adopted, will be of a good quality cardboard, of suitable size, with particulars at the bottom. These particulars will be required in the posting of all notices except by those activities which are able to afford their own printed posters.

(Signed)
The Bulletin Board Committee.

COMMUNICATION.

Editors of THE TECH:

Dear Sirs:—Wanted, men—young men—who can prove the surfaces of the oceans are straight and horizontal to a vertical line in long distances—10 to 20 miles. Surfaces of great lakes are straight and horizontal; engineers work to a straight line in long distances for canal and railroad works.

Architect and Engineer.
Boston, Mass.

P. S.—Books in Boston Public Library bearing on this subject are Zetetic Cosmogony, 2nd edition, by Thomas Winship, and Zetetic Astronomy, by John Hampden.

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QUICK SERVICE

**SECOND INDOOR MEET
TO BE HELD TODAY**

Many Entries in Short Distance Events—But Few in Longer Runs.

Today, at 2.45 o'clock, at the Gym, will be held the second of the series of open handicap meets. The meets are on the same plan as those held during the Fall at the Field. The idea is to give the fellows on the squad practice in running in competitive races. It is also intended by this means to obtain an idea of the ability of the men on the squad. All Freshmen who are substituting track for Gym work are required to enter at least one event.

A large number of entries have been received for the shorter distance events. In the thirty-yard dash some of the entries are: T. H. Guething, Crankshaw, Smith, Comiskey, Dean, Reed, Adams and Thomas. In the forty-yard hurdles are entered Huft, Iceper and Foster. But few men have entered in the five-lap run, but it is expected that more will enter at the Gym today before the meet starts. Those that have entered are T. H. Guething, Thomas, Lieber, Smith, Hyde and Comiskey. The ten-lap race so far is made up mostly of upperclassmen, including T. H. Guething, Nye and Hill, with Dean and C. Guething representing the Freshmen. Nye, Benson, Macey and Graff are the only entrants in the twenty-lap run, but nevertheless this should prove an exciting race, especially between Benson and Nye.

Hall seems to have everything to himself in the high jump, for as yet no one else has signed up. In the shot-put only four have signified their intention of entering, and these are all Freshmen—Duryea, Wolk, Maier and Bickford.

The handicaps that are to be given will be rated as nearly as possible upon the competitor's ability as shown in practice and previous meets, thus giving everyone an equal opportunity. Remember, 2.45 o'clock, at the Gym.

T. C. A. SPEAKER.

(Continued from Page 2, Col. 2.)

but a small part of their work, and often they spend whole days in the saddle as they go from place to place to attend to the needs of the men whom they serve.

Hospitals and clubhouses are among the things which Bishop Thomas is building, as well as churches and rectories. He has many plans for the Indians, of whom there are 1800 in the State, in the tribes of the Shoshone and the Arapahoe.

In speaking of the resources of his State, Bishop Thomas said recently in an interview: "We had no gold so the people went by us, but aside from the precious metals we have great mineral wealth, notably coal. Only recently a vein of coal 70 feet thick has been found, while one of the very best oil fields in this country is now being developed in Wyoming. We have the best iron deposits, next to the Superior Lake region, in the United States. We have copper, lead and asbestos. Then we have the old industry of sheep raising. We always will have a large range, but cattle and sheep raising are giving way in all the valleys to irrigation and dry farming. Ten per cent. of the State is now under irrigation."

The State has only recently been developed. For ten years it was unknown to all but the hunter and trapper. Even today elk abound in the forests, while the sight of coyote, wolf, bear and mountain lion is common. It is of life and work in this great outdoor country that Tech men will have an opportunity of hearing Monday at 1.30, in the Union.

**WIRELESS MEETING
AT HARVARD TONIGHT**

Dr. Pierce to Speak on "Resonance in Receiving Circuits."

An especially attractive meeting of the New England Wireless Society is to take place in the Jefferson Physical Laboratory at Harvard College at 8 o'clock this evening, to which all members of the Technology Wireless Society are invited to attend. All others who are in any way interested in the subject of radio telegraphy are cordially invited to come to the meeting. The feature of the evening will be a talk by Dr. G. W. Pierce of Harvard, who is one of the professors in the Department of Physics at that university.

Dr. Pierce's subject will be "Resonance in Receiving Circuits." All men who have ever experimented with wireless sets realize the great importance of this subject in the process of properly adjusting the various parts of the receiving apparatus so as to "tune out" certain stations which are not desired to be heard and at the same time to "pick up" the desired station with a sufficient strength for reading the Morse telegraphic characters and thus interpreting the message. Dr. Pierce has performed extensive experimental research in this particular field of radio telegraphy, and thus he is particularly well versed in his subject. He will doubtless illustrate his talk by experiments and show the various forms of apparatus which he devised for his investigations.

To reach the Physical Laboratory from the city, take a Cambridge subway train at Park street and go to Harvard Square. Arriving there, take any car outward bound for North Cambridge or Arlington, and leave it as soon as it comes to the surface. The building will then be on the right of the street and is easily located. It is hoped by the officers of the Tech society that a large representation from Technology will be present at this meeting.

MR. BLOOD SPEAKS.

(Continued from Page 1, Col. 4.)

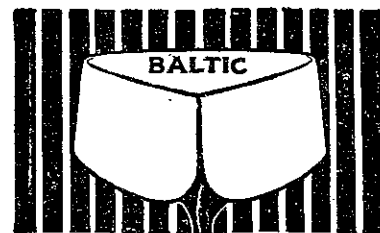
the engineer's education will enable him to work it out.

The engineer's education, however, must be continued after his graduation. He should not become discouraged at some of the problems, many of them vexatious. He should investigate the conditions thoroughly, and above all, he should not jump at conclusions. In starting out great care must be taken lest he be deceived by dishonest promoters. Mr. Blood then gave the men many valuable hints in writing out reports.

Mr. Blood summed up his talk in telling the members that there was no royal road to success. He said that ambition and energy will carry a fellow a good ways along the road. The young engineer may not receive recognition just when he thinks he deserves it, and he will do well to hold to the policy, "Good Enough." He should not rely on "pull" to bring him success, but upon himself.

After giving Mr. Blood a vote of thanks the society continued its business. Its president, R. H. Woods, finishes his studies here at Tech after mid-year's, and he tendered his resignation. Vice-President F. C. Weiss was then sworn into the office of president, and the vice-president's office remains vacant. Nominations for that chair will be held open till January 4th, each to be signed by five men. The meeting was then adjourned.

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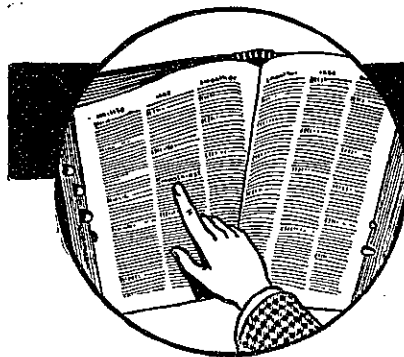
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N. E. I. C. A. A. MEETING.

Many Changes in Athletic Events Are Discussed.

At the recent meeting of the N. E. I. C. A. A. executive Committee, at which M. I. T. was represented by Maj. Briggs, H. S. Benson and M. L. Waterman, several important changes in the constitution and laws were discussed, and it was decided to recommend these to be passed on at the annual meeting of the association, which comes on February 8.

One of the important changes which was discussed was that of substituting the javelin for the hammer throw. It was decided to retain the hammer throw however until some action had been taken by the I. C. A. A. A. A. on this question. If this association should decide to substitute the javelin a similar change would probably be made by the N. E. I. C. A. A. There was also some talk of adding the running hop, step and jump and a pentathlon. It was urged that there were enough field events now and that it would be wise, if any change were made, to cut out some of the present events and substitute ones that would take less time.

NOTICE.

1915 Class Officers' Picture at Notman's, 3 Park street, on Thursday, January 9th, at 1.15 P. M.

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