

THE TECH

VOL. XXVIII. No. 70

BOSTON, MASS., FRIDAY, APRIL 16, 1909

PRICE THREE CENTS

1911 VS. 1912 IN CROSS COUNTRY

**Will Finish at Field at
3:30 During Base-
Ball Game**

WILL BE VERY CLOSE

**Over Twenty Men Expected to
Run—1912 Picked to Win
from Spring Showing**

Tomorrow afternoon at about 3:30 the 1911-1912 Cross Country Run finishes at the Field during the progress of the 1911-1912 baseball game. The sophomores have the benefit of experience, but on the basis of work done this spring in the inter-course run it looks as though the freshmen would win. In all events it probably will be the closest freshman-sophomore run yet held, as 1911 is looking for another chance to make up for Field Day and get its numerals again on the cross country cup, while 1912 wants to do something to cause the recent basket ball series to be forgotten. There is no limit to the number of entries made by each class, as only the first six men to finish score on each team. Last year 1911 won from 1910 with a score of 33-45, so the sophomores are looking to their team to repeat last year's victory. The first six men of the winning team get their numerals.

The men who will probably run are: for 1911, Capt. C. P. Eldred, R. D. Van Alstine, W. T. Mac Creadie, L. C. Cooley, E. W. DeWitt, Foster Russel, J. D. Mac Kenzie, H. G. Jenks, W. C. West, S. Bogdasarian, S. Bates, G. C. George, H. S. Smith, R. L. Hayward and C. R. Johnson; for 1912, Capt. H. S. Benson, H. G. Watkins, C. H. Morrill, K. Cartwright, V. V. Ballard, E. E. Ferry, R. M. Ferry, C. L. Tuller, G. H. Rhodes and F. H. Busby. Capt. Eldred, of the sophomores, has a very good chance of winning, while Capt. Benson of the freshmen and Watkins should finish close up with Mac Creadie, Van Alstine, Morrill, Cartwright, Cooley, DeWitt, Russel and Mac Kenzie close behind.

The number of men out and the excellent quality of their work augurs well for varsity cross country next year, and Coach Kanaly thinks that prospects are very good for a team that will finish well up at Princeton next fall.

LATEST ON THE PROM

Seating arrangements for the Prom will be published in Saturday's Tech. Programs will be distributed in the Union from 12 to 2 today, and all tomorrow morning by the committee, to those showing Prom receipts.

All men wishing taxicabs should make arrangements with the Taxi Motor Co. at once—10 per cent. discount is allowed.

Receiving at the Prom will be from 8.30 to 9.00. The supper will be served from 12 to 12.30. Dancing will continue from 9 to 3.

It is desired that all intending to go will sign up and pay at once.

BUT FEW CHALLENGES

But few challenges have been received in the new scheme for competition for the varsity tennis team. J. W. Nickerson 1909, and J. Scheuer 1910, have decided not to compete and accordingly will resign their positions on the list. The other men will be moved up as a result of these vacancies and M. D. Price 1910, will have Nickerson's place.

Unless more challenges are received and more interest is shown in the competition it looks as though the new scheme will not work out as well as it was at first thought that it would. The only challenge received to date is from P. M. Wentworth 1909, who has challenged M. K. Sweet 1910.

GLOUCESTER HIGH WINS THE DRILL

**Interscholastic Drill Won
by Well Balanced
Squad**

METHUEN WINS POINTS

**Pattillo, Gloucester High, Wins
First Prize—Bridge of
Methuen, Second**

The Exhibition Drill and Interscholastic Championship Drill, annually held under the auspices of the M. I. T. Corps of Cadets, was held Wednesday afternoon in South Armory, on Irvington Street. Thirteen high schools in Massachusetts and New Hampshire took part in the drill, each represented by three contestants. More interest was shown in the drill than in former years, and the teams showed more earnestness and precision of movement. Fully one hundred visitors were present, in addition to the entire M. I. T. battalion.

The committee in charge of the drill was as follows: John A. Herlihy 1911, chairman; D. E. Bent 1912; P. W. Dallymple 1912, F. H. Busby 1912, C. A. Stewart 1912, H. D. Kemp 1912, S. S. Stevens 1912.

At two o'clock the ceremonies commenced with M. I. T. company drill under the command of Captains Anderson, Wilbur, Frazier, and Perry.

At 2:30 the contestants for the Interscholastic trophy filed before the judges: Captain Frederic M. Whiting, M. V. M., Captain Frank L. Wilson, M. V. M., and First Lieutenant Grey L. Gearheart, C. A., U. S. A. Each contestant wore the uniform of his school, and carried his number at his belt.

The original squad was as follows: Concord, N. H.—J. M. Masson, G. W. Morrill, G. A. Stickney; Gloucester—E. Taft, L. W. Gibson, G. S. Pattillo, Hyde Park—T. Ward, S. M. Wheeler, J. L. Drummy; Lowell—J. H. Gilbride, H. T. Mather, H. D. Brown; Medford—J. Street, L. Scrammage, A. Baker; Lynn English F. Hammond, J. R. Vatcher, E. L. Marshall; Northbridge—P. Brown, W. McGlynn, E. Fredette; New Bedford—H. I. Wordell, F. F. Jones, G. E. Briggs, Jr.; Mitchell H. W. Robie, F. H. Garlach, C. A. Lyle; Stoneham—A. E. Hamn, R. Connor, Wm. Garside; Wakefield—J. C. Morse, B. A. Anthony, A. M. Proctor; Brockton—L. E. Mayer, S. Gunney, H. Quinbar; Methuen—J. L. Laycock, E. B. Douglass, E. M. Bridge.

For about half an hour Lieutenant L. R. Golden of Company A drilled the squad in the manual of arms, marching and facing. During the following intermission, the M. I. T. band played a few selections.

Twenty-one men were dropped at the first winnowing by the judges, and the following men returned for the second competition: Morrill, Stickney, Pattillo, Wheeler, Gilbride, Mather, Street, Scrammage, Wordell, Briggs, Robie, Garlach, Lyle, Garside, Morse, Anthony, Proctor and Bridge. Lieutenant Devlin of Company D took command.

For the final competition, the following men remained on file: Pattillo, Mather, Wordell, Briggs, Garlach, Anthony, Proctor and Bridge. These eight men were drilled by Lieutenant Ranger of Company B. From the squad, the judges voted the gold medal for best individual drilling to Sergeant G. S. Pattillo of the Gloucester High School Cadets. The silver medal was awarded to Sergeant Edward M. Bridge of the Methuen High School Cadets. The silver cup was awarded to Gloucester High School, which earned the highest number of points in the final squad.

The ceremonies closed with the evening parade of the M. I. T. battalion, and the presentation of prizes by Major Wheeler.

LAST INSTRUCTIONS ON TECHNIQUE RUSH

**Gun Will Be Fired At 12.15
No Men May Climb
On The Roof**

GOOD FIGHT EXPECTED

**First Five Books Have Signature
Of Pres. Noyes on Flyleaf
And Are Free**

With every assurance of fair weather and with positive assurance of many contestants and a fair audience, the annual Technique rush will be started tomorrow with the final gun at 12:15.

True to tradition, the men who secure the first five volumes will have the cost of their tickets refunded after the rush. Books 1 to 20 will contain the autograph of President Noyes. This year the numbers will be very conspicuous on the packages and there will be little delay in knowing what each man has scored as he appears from the mob.

Green rush tickets are still on sale today in the Union, hours for business being from 1 to 2 and 4 to 6:30. A last opportunity to secure tickets will be offered tomorrow at the scene of activities. Then tickets may be procured until the rush is over from the agent stationed under the sign.

The rush rules are not very restrictive. A couple of Technique men will be stationed on the roundhouse to enforce what rules there are. When a man has secured his book at the window, that book thereafter is not to be interfered with. No contestant will be permitted to drop from the roof. The moving pictures will be taken from a cart stationed about 30 feet from the roundhouse, the machine itself being at an elevation of about eight feet. Everyone is warned to keep away from the operator's cart, and if a contestant does not, he will be disqualified from securing a book during the rush.

HUNTING BIG GAME

**Lyman Underwood to Give Illustrated
Lecture Tonight**

"Hunting Big Game with Canoe and Camera" is to be the subject of Mr. Lyman Underwood's talk this evening at the Union. Mr. Underwood has given this lecture several times and it has always been enthusiastically received by his audiences.

Mr. Underwood is well known as a lecturer and many Tech men have had the pleasure of hearing his several talks to the Biological Society. He is at present a special lecturer on the instructing staff of the Institute and he is a particularly popular speaker with the students.

Mr. Underwood gave a very similar lecture before the Biological Society on December 1st, last year, under the title "With Canoe and Camera in the Wilds of New Brunswick" and made use of a large number of very fine stereopticon views which he photographed himself while on a trip in that region. He has given the lecture before the Technology Club and the enthusiasm with which it was received there argues well for its reception this evening.

On his summer trips in the Maine woods and on winter trips through the Everglades of Florida he has taken what is perhaps without exception the finest collection of artistic photographs showing the wild animals right at home. The slides moreover are most excellently colored making them very realistic, these slides he is going to show during his talk.

All who attend the talk tonight will be amply repaid and the entertainment committee is making preparations to receive a large crowd.

FIRE FIGHTING MINE APPARATUS

**Mr. Mingrann Talks Before
Mining Engineering
Society**

OLD STYLE APPARATUS

**Draegar Oxygen Machines Shown
and Necessity of Them
Demonstrated**

Mine rescue work and fire fighting in mines was the subject of the lecture Wednesday evening by Mr. W. E. Mingrann, general manager of the Draegar Oxygen Apparatus before the Mining Engineering Society at the Union.

Mr. Mingrann opened his lecture with an account of the different apparatus which have been invented, since the need of them became evident. In this country the mine rescue apparatus has been in use only two years, but in Germany, apparatus of this kind has been in use since 1867. In Germany the need of such apparatus was especially necessary because of the deep mines in that country which were not met with in the United States until lately. The school of mines in Germany has a deep pool in which the students are trained in the use of the deep diving and mine rescue work.

The first apparatus invented was by a Frenchman, to use in mine fires, but it was not very satisfactory as it could only be used at a short distance from the good air. The next improvement on this apparatus was an invention which made use of two tanks of compressed air by means of which the workman could stay in the gaseous atmosphere of the mine for about fifteen minutes. In 1885 a new dependent type of mine apparatus was invented which was quite reliable and which is in use in many mines at the present date. The next development in 1900 was another form of the dependent apparatus with a light helmet and with the air tubes attached to a belt fastened around the waist. In 1906 the independent apparatus of the Draegar company was invented which nearly superseded the old style equipment.

The question of the amount of air needed by the human being for working purposes was also important, and experiments made for the purpose of finding out the amount of air needed gave the following data: a man sitting down uses about two and a half gallons of air; a man walking one thousand feet uses up about four gallons of air; while a man doing hard work uses about ten gallons per minute. In the old style apparatus the man could work for about twenty minutes without ill effects, but after that time he would soon get a headache, and then if he continued to work, he would faint. The fault of the old apparatus was that the oxygen used contained, after breathing, about five per cent. of carbonic gas, and this gas overcame the workman.

The Draegar apparatus consists of a frame which holds the oxygen tank, the two carbonic gas absorbing cartridges, and the rubber connecting tubes which lead to the mouth. The cylinder

(Continued on page 2.)

CALENDAR

FRIDAY, APRIL 16.

8:00 A. M.—New Show Postals out.
1:45 P. M.—Electrical Engineers meet at Lowell Building.
3:00 P. M.—Trials for Relay Team at Field.

SATURDAY, APRIL 17.

8:00 A. M.—Junior Week issue of Tech.
12:00 P. M.—Technique Rush.
3:00 P. M.—1911-1912 cross-country at Field.