

THE TECH

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PRICE THREE CENTS

TECH HAS NO CHANGES AGAINST HARVARD TEAM.

MEN NOT SHOWING UP FOR PRACTICE.

Cooley the Only Man Who Shows Up Regularly.

Prospects for the cross country race with Harvard on Friday are dark indeed. Since the trials which were held last week very few of the men have been out for practice at all, and yesterday only a single one, Cooley, of the Freshman Class, reported at the Field.

The Captain of the team and its most prominent members who have run on it in the past have all shown a marked aversion to doing any work this season, and although with the material at hand a good team might be developed by hard training, under the present conditions, it will be almost impossible for Tech to make a good showing.

Coach Kanaly is very apprehensive of the outcome of the run on Friday. The Harvard trials which took place Monday afternoon in a pouring rain were extremely good, and showed a high class and consistent quality in the work of the whole team.

While Tech did very well in her trials over a week ago, the men have done little or nothing to keep in condition. Captain Howland, Ellis, Batchelder and some of the other members of last year's team have hardly been out at all. There is no doubt that the best work on the team this year has been done by men from the Freshman Class, just entering the Institute.

Among the men who promise to show up well, W. T. MacCreadie is the most prominent. He came to the Institute from Andover Academy, where he ran the distances on the track team for several years. In the trials for the Tech team he ran second to Captain Howland in remarkably fast time, and his work furnishes one of the greatest encouragements of the season.

White, the Irish runner, who ran such a sensational race in the half mile at the games last Saturday, has also been out for cross country work and has been showing up very well. M. Nickerson, '11, has also shown the makings of a very good cross country man, but has been very lax about training of any sort. Another man from Andover Academy who made the team is S. L. Miles. He has been working hard and is running a very fast 4 1-2 miles. Lloyd Cooley is also running on the team. Coupled with very good speed, he has shown most excellent spirit. He has been working hard and conscientiously all season.

The race Friday will be run over the Technology course, starting at Highland Station and running 4 1-2 miles across country, through fields, up and down hill, on macadam roads, and finishing with one lap around the track at the Field. The distance to the field is 4 1-4 miles, and the additional lap of the track makes a race of 4 1-2 miles in all.

The ten men who will be entered in the race for Technology are: Capt. H. H. Howland, W. T. MacCreadie, A. Ellis, C. L. Batchelder, M. Nickerson, R. Hulsizer, S. L. Miles, E. White, E. S. Howe and L. C. Cooley. The points of the first five men of each team finishing will count on the team's score.

PROF. LEWIS WILL ADDRESS TEACHERS.

Lowell Institute Offers Course on Physical Chemistry.

The Teachers' School of Science, established by the Lowell Institute of Boston, offers this winter, as a new department, a course of fifteen lectures to teachers, on the fundamental principles of physical chemistry, discussed with special reference to their application in the teaching of elementary sciences.

The lectures will be given by Prof. G. N. Lewis, of the Research Laboratory of Physical Chemistry, on Saturday forenoons, beginning Nov. 16. This course is offered at the request of the New-England Association of Chemistry Teachers and will be open free of charge to all science teachers.

JAMES FRANCIS AGAIN TO COACH SHOW.

FOUR SHOWS ARE BEING PREPARED.

Play Chosen Will Be Announced on December 1.

James R. Francis has again been secured as coach for the Tech Show. Mr. Francis has also been engaged by the Bank Officers Association to attend to the production of their show which they are to give Feb. 10. For this reason he is coming to Boston earlier than usual, and the Show is to have the benefit of his services beginning Dec. 1, instead of some time in February as heretofore.

Ralph J. Batchelder, '08, of the Banjo Club, has written a play which is now in the hands of the management, and Henry A. Hale, Jr., '10, Abram H. Ginzberg, '09, and George C. Westervelt, '06, have shows in preparation, although they have not as yet handed them in. The date set for the plays to be handed in is Nov. 1, and the management is anxious to have them in by that time in order to get things started as early as possible.

The name of the play selected will be



JAMES R. FRANCIS.

announced about Dec. 1. Work will then start on the poster, for which a prize will be offered as in previous years. Subjects for lyrics will also be given to applicants. The lyrics will be selected by competition, and when these are chosen there will be another competition for the music.

Although H. S. Wanson, '07, who did

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WILL EXHIBIT FRIDAY.

Fencing Club Given First of Monthly Bouts.

The Fencing Club will hold its first exhibition at 22 St. Botolph St., Friday, at 8.30 P. M., which Institute men are invited to attend. Coach Fournon will fence against Capt. Loring. What promises to be the feature of the evening is a duelling contest between Capt. Loring and Mr. Cushing.

The program is as follows:

1. R. Van Eetvelde, '09, vs. W. L. Doane, '11.
2. B. Brown, '11, vs. P. Chinchilla, '09.
3. R. Gallegos, '10, vs. L. G. Glazier, '11.
4. R. Van Eetvelde, '09, vs. V. C. Grubnan, '09.
5. H. E. Weeks, '09, vs. L. E. Monge, '11.
6. P. Chinchilla, '09, vs. L. G. Glazier, '11.
7. F. J. Lange, '09, vs. J. W. Nickerson, '09.
8. Coach Fournon vs. Capt. Loring, '09.
9. Duelling sword bout.—Capt. Loring vs. Mr. Cushing.

ACTIVE WORK IN ELECTRICAL DEPT.

AMERICAN INSTITUTE HONORS PROF. JACKSON.

English Visitor Enthusiastic. New Apparatus. Help from Stone and Webster.

The Electrical Engineering Department has been very active lately in outside work. Prof. Jackson has been placed on three important committees of the American Institute of Electrical Engineers, namely: the educational, the standardization, of which he is a past member, and the international standards committees.

Mr. C. H. Porter, an instructor, has been appointed chairman of the committee in the A. I. of E. E. on forest preservation. In the recent election of officers in the Boston section of the A. I. of E. E., Prof. W. L. Puffer, formerly of the Electrical Engineering Department, was elected chairman, and Prof. Shaad was placed on the executive committee.

Prof. F. A. Laws has just finished the verification of the instruments used in the acceptance test of the 2000 K. W. Curtis turbine at the Quincy Point Power Station of the Old Colony Street Railway Company.

Prof. R. R. Lawrence recently made a test for the Cushman Electric Company on a 5 H. P. commutating pole direct current 230 volt motor.

Prof. Shaad has taken up Prof. Smith's work in the Lowell Institute of Industrial Foremen and will give the lectures on direct current generators and direct current distribution. He recently made a test on the Almond right angle transmission pulleys using the 50 H. P. model. In McGraw's Hand-Book on Electrical Engineering, published this month, is a section on central stations written by Prof. Shaad.

Mr. James Carlton Stitt, a member of the council of the Liverpool Technical College, made a visit recently to this department in the course of his tour of observation of the American technical schools. He was much impressed with the apparatus used in lectures demonstrating the principles of electrical engineering. This apparatus has lately been added to.

Instrument transformers have arrived from the General Electric Company for use in the standardizing laboratory to complete the set necessary for testing polyphase circuits. These transformers vary in ratio from 1:1 to 600:1, and with the accompanying potential transformers allow measurements to be made on any polyphase circuit up to 10,000 volts and 3000 amperes. Mr. Henry A. Morss, '93, has presented a Sullivan Uni-

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EIGHT TECH MEN QUALIFY.

Will Get Buttons From War Department.

Eight members of the Rifle Club qualified in the National Marksman's Reserve at Wakefield Range Saturday afternoon. Darkness unfortunately stopped the shooting before all the men had completed their strings. A score of 50 out of a possible 75 was necessary. The following men qualified: H. R. Wilbur, '10 (59); W. N. Drew, '10 (56); G. E. Goodspeed, '09 (54); F. B. Appin, '09 (55); S. A. Francis, '11 (55); T. C. Merriman, '09 (53); and F. M. Green, '08 (50).

The following did not finish on account of darkness and will shoot again next Saturday either at Wakefield or Walnut Hills: L. G. Glazier, '11; M. W. Hopkins, '11; D. P. Marvin, '10; M. R. Thompson, '10; and E. J. Whitcomb, '11. The M. I. T. Rifle Club is chartered under the National Rifleman's Association, and its members thus have the privilege of competing for the National Marksman's Reserve. A man who qualifies has his name registered at the War Department and receives from the government a bronze membership button in the N. M. R.

URGES GREATER COOPERATION AND ACQUAINTANCE.

SAYS SPECIALIZATION NEEDED IN MODERN LIFE.

Prof. Sedgwick Talks to Mechanical Engineers.

Greater co-operation and better acquaintance between the various departments of the Institute were urged as the first practical step toward the right student-life now and here by Prof. Sedgwick in his talk to the Mechanical Engineers' last evening at the Union.

After explaining in detail exactly what the terms specialization and differentiation mean, illustrating by analogies furnished by various plants and animals, especially the Portuguese man-of-war, ants and bees, Prof. Sedgwick showed that specialization is an indispensable condition of high development, both in individuals and in communities, and criticized writers like Tolstoi who, moved by the drawbacks of specialization, would do away with it altogether and return to undeveloped conditions.

"This," said Prof. Sedgwick, "is simply the praise of savagery and anyone who thinks that the savage state is better than the civilized ought to stop talking about it and become a Red Indian or a Hottentot." The drawbacks and dangers of specialization were admitted but their necessity in any well organized system vigorously denied.

"The secret of sound specialization consists in the development of the right relations of the part to the whole—of the hand, the eye, the foot, for example to the body as a whole, that is to the organism, of which it is a part. In science and in education, in professional work and in life itself, care should be taken lest in the development of a specialty we lose right relationship to the organism of which we are only a part—be it family, or school, or state, or nation.

"Specialization in work and in professions we must have, and that, too, the highest and best, and the limit of such specialization is to be found only in the right relationship of such specialization to the rest of the work of the social organism. The man of science, the engineer, the expert, must seek all possible proficiency in his chosen specialty but he must at the same time be careful that his proficiency does not interfere with his normal relation to the rest of the body, such as school or college, of which he is for the time being a part,—or to the family or the world at large."

1911 NOMINATIONS ANNOUNCED.

Polls Will Close on Friday.

Nominations for officers of the Freshman Class have been received as follows: President—George A. Cowee, Eugene R. Davis; Vice-President—Scott P. Kimball, Webster Richardson, J. A. Proctor; Secretary—Arthur E. Coupal, L. Gordon Glazier, Willson G. Stamper, Jr.; Treasurer—L. B. Copeland, P. A. Cushman; Clerk—Austin K. Wardwell, H. M. Davis, M. A. Grossmann; Directors—J. P. Constable, K. W. Faunce, J. C. Fuller, Norman De Forest; Institute Committee—Kester Barr, Roger M. Spencer, H. S. Smith, B. Lawrence, W. H. Coburn; Athletic Association, L. G. Fitzherbert, L. Gordon Glazier, Roger M. Spencer, Kenneth Greenleaf, Edward Van Tassel, Jr., W. J. Seligman, C. W. Dow, W. C. Salisbury, George A. Cowee, N. N. Prentiss, H. G. Soule, O. Hutchins.

The following are the qualifications of the nominees for the Athletic Association:—

- G. A. Cowee, 1911 Football Team and Andover football man.
- L. G. Fitzherbert, 1911 Football Team; all-interscholastic football man, 1906.
- R. M. Spencer, Allen School athlete and 1911 Relay Team.
- Kenneth Greenleaf, 1911 Tug-of-War Team.
- W. J. Seligman, 1911 Track man, Brookline high track team, point-winner in Fall Meet.

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