

THE TECH

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PRICE ONE CENT

LYRIC WRITERS ARE ALREADY AT WORK

Show Poster Competition Is To Open Soon--More Men Needed

Although a good many lyric writers responded to the call last Saturday, the number now entered in the competition is not large enough to put out the quantity and quality necessary for "The Queen of the Cannibal Isles," Tech Show 1910. At the dinner on Saturday evening Mr. Francis said that with proper backing by the students in all phases of the Show he could make Tech Show 1910 what he had always noped for, not merely the best college show in the country, but a first class musical comedy. The lyrics are one of the most important factors in producing a show that will have life and go in it, that will not drag at any point. Every one enjoys a good song with a catchy air and clever verse, and this is what we must have for the show this year.

Any one desiring to enter the competition may get the approximate titles from the Stage Manager, but this does not mean the lyrics are to be written on these subjects alone? A good lyric can be worked in very easily be it topical, amorous, a imitative. The idea that a man has to write all the lyrics for the show or none at all seems to be prevalent. This is not the case at all. The lyrics for "William Willie and Bill," Tech Show 1907, were written by six men, and those for last year's "That Pill Grimm," by seven so it should be evident that if a man has a single lyric or even a single verse that he thinks is good, he should submit it to the Stage Manager.

Now that the title for the Tech Show 1910 has been selected, the competition for the poster will be called in a few days. The posters are generally of three colors and about twelve by twenty inches, but the specifications for this year's poster have not been definitely decided on as yet. Of course the poster should suggest the title of the Show, and should be rather striking, not, however, at the expense of art and good taste. Particulars of the competition will appear at an early date, but all men expecting to enter should be getting their ideas together right away, as the competition does not last any length of time.

ALL-AMERICAN TEAMS

It is interesting to note that in the choice for the American football team for 1909, out of nine papers who choose a team only twenty-four different men are picked. The vote is as follows: For left end, Kilpatrick of Yale, 9; for left tackle, Hobbs, Yale, 6, McKay, Harvard, 1, Lilly, Yale, 2; for left guard, Tobin, Dartmouth, 1, Andrus, Yale, 7, Goebel, Yale, 1; for centre, Cooney, Yale, 9; for right guard, Andrus, Yale, 1, Tobin, Dartmouth, 3, Goebel, Yale, 3, Waller, Princeton 2; for right tackle, Fish, Harvard, 7, Pullen, Army, 1, Siegling, Princeton, 1; for right end, Regnier Brown, 1, Browne, Harvard, 2, McCaffrey, Fordham, 1, Smith, Harvard, 3, Page, Chicago I. Logan, Yale, 1; for quarter back, Sprackling, Brown, 6, Voorhees, Penn., 2, McGovern, Minn., 1; for left half back, Coy, Yale, 5, Philbin, Yale, 4; for right half back, Philbin, Yale, 4, Minot, Harvard, 4, Allerdice, Mich., 1; for full back, Minot, 5, Coy, Yale, 4.

CROSS-COUNTRY RACE WON BY E. W. DEWITT

R. M. Perry 1912 Comes Second--Winning the Time Prize Cup

Shortly after three o'clock last Saturday the seventh annual Handicap race started with but thirteen men entered. The three cups offered as first, second and third prizes by E. H. Lorenz 1905, R. Ellis 1909, F. H. Hunter 1902, and A. R. Hunter 1908 were awarded to E. W. DeWitt 1911, Foster Russell 1911, and R. M. Ferry 1912 respectively. R. M. Ferry came in second but since he also had the best time he had his choice of the two cups, the donors having stipulated that only one cup should go to any single contestant.

The four best times were made by R. M. Ferry 1912, H. G. Watkins 1912, E. W. DeWitt 1911, and L. O. Mills 1910. These men receive the cross-country insignia C. T. C.

E. H. Lorenz one of the donors of the cups who held the record for this course until Howland lowered it last year, ran with the men, starting with H. G. Watkins from scratch. Mr. F. H. Hunter who has always taken especial interest in this race was one of the marshals.

The first man to start over the eight mile course was L. U. Bowman 1913 who had a handicap of eight minutes. S. E. Bates 1911, R. D. Bonney 1913, M. D. Hersey 1909, W. T. Moore 1912, and Foster Russell 1911 started next with handicaps of six and one-half minutes. V. V. Ballard 1912, and B. C. Huber 1910 went off a minute later with handicaps of five and one-half minutes. E. W. DeWitt 1911, the winner and R. M. Ferry 1912 who won the time prize followed with handicaps of four and three-quarters and three and three-quarters respectively next C. P. Eldred 1911 with a three minute handicap, E. Jacobs 1910 with a minute and three-quarters and L. O. Mills 1910 who had a handicap of one minute started in order. H. G. Watkins 1912 was scratch man.

At Brookfarm woods about three miles from the start Bonney was leading followed closely by Huber and Russell. Six miles out on Church Street near Weld, DeWitt had come to the front with Ferry and Russell close up. The runners were in this same order a mile further and thence to the finish.

The weather was perfect but the course was rather heavy in the lower spots owing to the recent rains. This later slowed down the times a little but they were very good nevertheless.

A feature of the race was the plucky race ran by B. C. Huber 1910 who was wearing a new style of shoes. These shoes gave him untold inconvenience until finally he was forced to remove them and run the remaining two miles in his bare feet.

A much larger number of entries were expected since this is intended to give a chance to the men who cannot make the regular team and liberal handicaps are given for this reason.

An especial attraction this year were the handsome and expensive cups which had been provided. In spite of this fact only thirteen men started in the race while nineteen ran last year.

The following is a summary of the race giving the names of the men in order of their finish.

Marshals: F. H. Hunter 1902, C. S. Clapp 1908, E. H. Gage 1913, C. H. Cromby, A. O. Moulton, Lawrence Irving. (The last three are members of the Roxbury A. A.)

(Continued on page 4)

NEW THESIS WORK IN MECH. LAB.

Many Tests to Be Made on The Strength of Beams

Thesis work that promises to be of much interest is about to begin in many of the departmental laboratories. In the Laboratory of Applied Mechanics it is proposed to carry out during the coming winter investigation of the following nature; an investigation of a new method of proportioning concrete with special regard to compressive strength and the modulus of elasticity; Anchorage of plain rods in concrete by means of bends of different length and shapes; Beam tests—two sets of concrete beams will be tested, one set containing about thirty beams which will be tested to determine the effect of the various kinds of stirrup reinforcement, the other set to determine the effect of parting beams in the middle; The effect of small quantities of vegetable matter in concrete. A study of twisted steel rods such as are used in reinforced concrete, with the special idea of determining the effect of various amounts of twist on the properties of steel rod of different sizes and containing different amounts of carbon. An investigation of the effects of saturated and superheated steam upon steel, semi-steel, cast iron, and gun iron.

While the above titles are not necessarily those which will appear on the final work, they indicate very well the scope of the various investigations.

Twelve men from the departments of Civil and Mechanical Engineering will undertake this work which will be in charge of the instructing staff in the Testing Laboratory.

THE TECH DINNER

All Connected With the Paper Are Urged to Attend

All the men in any way connected with The Tech are strongly urged to attend the dinner in the Union next Tuesday evening. Anyone who intends to come out for the paper or is interested in the way in which the paper is published is also invited. The object of this dinner is to have the men on The Tech get in closer touch with one another and for the new men to become better acquainted with the men above them.

This dinner will probably be followed by others of a similar nature during the winter and the talks will be instructive as well as interesting.

The men chosen to speak at the dinner next Tuesday have all had considerable experience in the publication of papers and magazines.

Mr. W. F. Dolke, 1908, formerly editor-in-chief of The Tech, will speak on "Editorial Opinions." Mr. I. W. Litchfield 1885 of The Technology Review has chosen for his subject "Organizations and Business of Getting out a Paper." Mr. M. R. Scharf 1909 will speak on Reminiscences of Past Tech Boards.

ACCIDENT TO 1912 MAN

Adolphe C. Cardinal, 1912, one of the most popular men of Course XI has been absent from his class since last Monday. He has blood-poisoning in his leg and will probably stay out for a few weeks. His condition is quite serious.

NEW EXPERIMENTAL WORK FOR COURSE XIII

Forty-Foot Working Model Given to the Naval Arch Department

Prof. Peabody, the head of the Department of Naval Architecture, having received the assurance of financial backing, is preparing to undertake investigation of certain problems of the propulsion of ships by the aid of a navigable model about forty feet long. The hull of this model has already been ordered and the propelling machinery will soon be. This machinery will consist of a gasoline electric generating set and an electric motor geared to the propeller shaft. It has the advantage that the operating conditions can be controlled over a wide range and measurements of power can easily and accurately be made. It can also be adapted to other hulls that may be built in the future.

In order that the experiments may be conducted with the real condition of ship propulsion, the model will be a reduced copy, to one fifth scale, of the U. S. Revenue Cutter "Manning" which was put through a complete set of progressive speed trials by Prof. Peabody in 1899, a report of which can be found in the Transactions of the Society of Naval Architects and Marine Engineers.

The department has been promised the co-operation of the U. S. Experimental Model Basin at the Washington Navy Yard, where tests will be made of a twenty foot model of the hull and of a propeller sixteen inches in diameter which will be tested separately.

It is expected that various forms and locations of propellers will be tested with the model now building, including twin and triple screw as used with marine turbines. The hull will then be changed as much as may be possible without rebuilding and afterwards a number of hulls representing various types of ships will be tested in the same way.

The model will also be used to study the problems of steering and maneuvering, which have received relatively little attention.

This equipment will be used mainly during the summer for original research, but students of the department will receive instruction in its use so that it will form a part of the laboratory equipment of the Institute.

PHYSICS DEPARTMENT

Examples of Energy of the Modern Rifle Bullet

The Department of Physics has received from Dr. F. W. Mann of Milford some interesting examples of the energy of the modern rifle bullet. Thick pieces of boiler plate are neatly perforated, and the effect of the soft-nose bullets is shown on blocks of lead, in which they have torn holes many times their own diameter. Several panes of glass, perforated through the centre, show the usual inertia effect accompanied by a curious concentric fracture.

CALENDAR.

Monday, November 29.
Nominations for Junior Prom.
4:00 P.M.—Open Basket Ball Practice.
Tuesday, November 30.
4:15 P. M.—Banjo Club Rehearsals, 33 Rogers.
1:00 P. M.—1913 Class Meeting.
Wednesday, December 1.
4:00 P. M.—B. B. P.