

# THE TECH.

Published daily except Sunday during the college year by students of the Massachusetts Institute of Technology.

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BOSTON, MASS., OCTOBER 30, 1909.

It is with the greatest regret that The Tech announces the resignation of Harold Martin Davis 1911 from the news board on account of pressure of studies. Under his guidance the news end of the paper has advanced out of that period of uncertainty which attended its establishment as a daily. The Tech extends heartfelt thanks to him for the great service he has rendered, and hopes it has repaid by experience it has offered.

The Tech announces the appointment of David St. Pierre Gaillard 1911, editor in chief; Andrew L. Fabens 1910, Institute editor, and William J. Orchard 1911, associate editor.

## 1913 RELAY TRIALS

### Freshman Team To Be Picked This Afternoon

This afternoon at the Field the 1913 relay team will be picked. The men to run are those picked from their showing in the preliminaries last week. These men are: Haynes, P. M. Hamilton, Herson, Welch, Gentner, Crocker, Cairns, Brewster, Trull, T. Watson, W. Conant, Burnham, Balke, B. Atwater, H. D. Peck, Whitehead, Pendleton, Currier.

Since these men averaged three-fifths of a second faster in the preliminaries than any former freshmen team, the trials today are expected to result in some fast time.

The men will run singly and against time. The men running the twelve fastest two twenties will constitute the 1913 relay team. The two men making the next best time will be the substitutes. Everybody is expected to come under twenty-six seconds.

**CALENDAR.**

Saturday, October 30.

2:00 P. M.—Finals—1913 Relays.  
2:22 P. M.—Hare and Hounds at West Roxbury. Leave Back Bay.  
2:00 P. M.—1912 Football vs Exeter, at Exeter.  
2:00 P. M.—Orchestra Rehearsal in Union.

Monday, November 1.

4:15 P. M.—Relay Practice at Field.  
4:15 P. M.—Tug-of-War at Gym.

Despite the fact that the year started with a \$6,000 deficit, the Columbia Crew Association finished the season with a balance of \$462.20.

## LANZA ON CONCRETE

### Reads Paper Before Boston Society Of Civil Engineers

At the recent joint meeting of the Boston Society of Civil Engineers and the American Society of Mechanical Engineers, Prof. Lanza and Mr. L. S. Smith 1900, presented a paper on "Stress in Reinforced-Concrete Beams, Comparison of experimental results with results obtained from the use of three theories of distribution of stress." The object was to compare the position of the neutral axis, the stress in the steel and in the concrete, and the deflection as obtained in practice with that calculated. The comparisons were made upon eleven beams, five of which had been tested here, and the remainder at the University of Illinois. Steel bars had been imbedded longitudinally in the lower portion and loads applied at two points above.

There are three theories, one that concrete will bear no tension and that under compression it follows Hooke's Law, another differing only in the method of calculating compression, and the third that, whereas concrete without rods will not bear tension, reinforced concrete will not crack under considerable loads. Formulae were deduced and the results compared with the tests.

They concluded that the observations made thus far are not sufficient to furnish the means for determining the actual distribution of the stresses and hence for determining the actual distribution, and for the deduction of reliable formulae for computation of action under given loads. The present theories serve only as working hypotheses.

The third theory gave for the most part the best results, and it seemed hopeless to obtain a reliable deflection formula unless some such theory is used. The complexity was therefore not so great when designing a beam as when calculating stress in those already in use.

This paper will be presented again before the November meeting of the American Society of Mechanical Engineers in New York.

## 1912 CLASS MEETING

(Continued from page 1.)

and some of the Boston hotels, the committee had not obtained the orchestra seats in the center in front of row L. If, however, the men will not purchase tickets of outsiders at a premium and the regular patrons stay away from this special night, the committee will be able to obtain the best seats. The manager assured the committee that he would stand for any program which did not mean injury to actors or property.

At the close of the meeting it was voted to accept nominations for baseball managers until Saturday, Nov. 6th.

Harry Thaw's contention that he was illegally committed to the Matteawan State Hospital for the criminal insane, following his acquittal on the charge of murdering Stanford White in New York city, was overruled yesterday by the Court of Appeals.

Attendance at chapel is compulsory this year at Pennsylvania.

AAT MAKERS  
The Sphinx  
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