

THE TECH

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BOSTON, MASS., MONDAY, MAY 10, 1909

PRICE THREE CENTS

COURSE II THESES TITLES ANNOUNCED

Seniors Now Investigating
Various Subjects of
Importance

TESTING CONCRETE

Four Men Engaged in Making
Tests on Concrete Beams of
Unusual Sizes

Of unusual importance is much of the thesis work being done in the mechanical engineering department. Several of the men are at work on tests of large concrete beams, the results of which will be of immense importance. Heretofore engineers have reasoned that large beams will act like small ones, and have based their figures on the tests of small models. The results of these tests will enable computations to be based on figures that are known to be correct. The list of theses follows:

Ayres, R. S.—Investigation of Ventilating in Engineering A.

Belcher, D., Cloudman, H. C.—Investigation of Tensile Strength of Turned and Unturned Malleable Cast Iron.

Bullard, M. L.—Test on Centrifugal Pump.

Cole, M. J.—Investigation on the Ideal Marine Engine for Horse Power and Fuel Consumption at Various Speeds.

Davis, J. F., Hubbard, C. W.—Boiler Test on Turbine Steamer "Harvard."

Fisher, H. C., Young, P. E.—Service Test on Turbine Steamer "Harvard."

Dow, B. W., Towle, F. T.—Comparisons of Belt Drive on Wood and Iron Pulleys with and without "Compo" Cork Inserts.

Ferguson, W. C.—Investigation of Methods of Holding Wire Rope for Testing.

Fick, W. G., Weill, M. K.—A Thermodynamic Study of an SO₂ Engine.

Gordon, W. S., Weeks, A. T.—Lift and Discharge of Safety Valves.

Hartshorn, D. G., Kyle, C. W.—Investigation of Initial Strain in Iron Castings.

Hartwell, A. E.—Investigation of Effect of Spray Nozzles for Cooling Water.

Heidelberg, F. M.—Effect of Superheated Steam on Different Metals.

Hershey, M. D.—Journal Friction and Carrying Power under Different Conditions of Lubrication.

Inglee, R., Marshall, H. H.—Investigation of an Inertia Governor.

Jacobs, C. D., Keables, A. D.—Investigation of Strength of Timber with Non-uniform Cross-section.

Jones, W. H., Martin, T. DeV.—Experiments on Running Balance.

Kelley, E. F.—Investigation of Strength of Different Lime Mortars.

King, F. J., Rountree, W. J.—Investigation of Repeated Stress in Locomotive Driving Springs.

Latimer, R. C., McClintock, F. S.—Test of Reinforced Concrete Beams of Unusual Depth.

Main, C. R., Mayo, L.—Test on a 750 K. W. Allis Chalmers Parsons Turbine.

Millard, R. W.—Test of Reinforced Concrete Beams of Unusual Depth. (with G. M. Gilkinson, Course I.)

Nickerson, J. W., Smith, R. L.—Test on an Ammonia Compressor Refrigerator Plant.

Peet, A. S.—Investigation of Flow of Steam through Orifice.

Reeds, C., Riefkohl, R. W.—An Investigation of the Effect of Pitch on the Supporting Power of Helical Springs.

Spencer, H. K., Willard, J. A.—An Investigation of the Effect of Water Vapor in Explosive Mixture of an Oil Engine.

Temple, R. B., Thornley, A. E.—Investigation of Stresses in Open Links.

Wallis, G. E., Zahner, R. V.—Critical Stresses of Loaded and Unloaded Shafts.

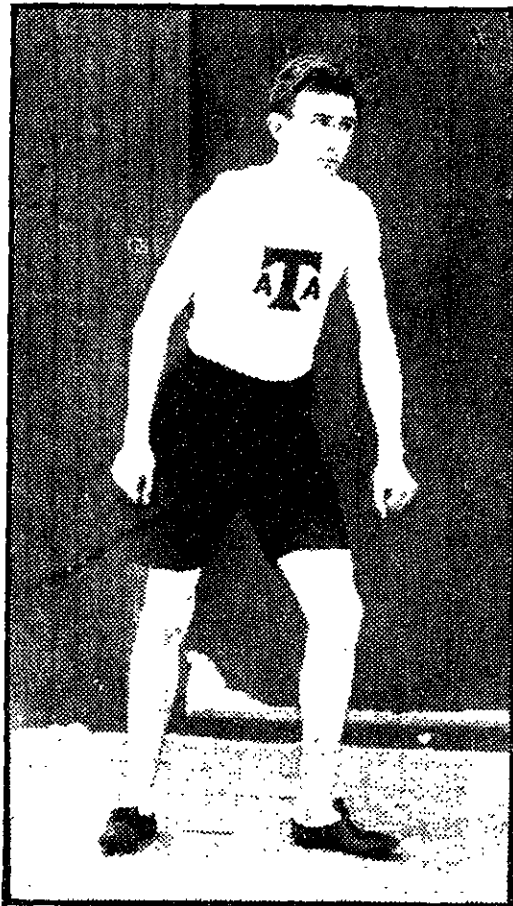
W. D. ALLEN BREAKS INSTITUTE POLE VAULT RECORD IN ANNUAL SPRING TRACK MEET WON BY JUNIORS

Third Year Men Roll Up 43 1-3 Points in Games Marked by Keen Competition—
Freshmen Take Second Place Only Three Points Behind—
Sophomores Get 39 and Seniors 30 1-3 Tallies

W. C. SALISBURY 1911 TAKES INDIVIDUAL HONORS WITH 13 POINTS

After Crossing the Tape a Winner in Mile Run, H. G. Watkins 1912 Defeats Big Field in Two Mile Event—Rockwell Cup Goes to Captain Carl Gram 1909, Hurd Cup to W. J. Pead 1910 and Batchelder Cup Won by H. G. Watkins 1912

With the result in doubt until the finish of the last event, the junior class was victor in the annual spring track meet last Saturday. Never has there been a closer or more exciting meet held at Tech Field. The score at the end stood 1910, 43 1-3; 1912, 40 1-3; 1911, 39; 1909, 30 1-3. The remarkable showing of this year's entering class was the surprise of the day, the 1912 score of 40 1-3 points being the largest ever made by a freshman class in the spring meet.



P. D. WHITE 1911
Winner of 880 yd. Run

With perfect weather conditions and a large number of entries, several close and exciting races resulted. The individual star of the meet was William Conyne Salisbury 1911, who rolled up a total of thirteen points, capturing first place in the 220 yard dash, second place in the pole vault and 440 yard dash, and third place in the century dash.

A close second to Salisbury's star performance was the fine work of Harold George Watkins 1912, who won the one mile and two mile events in quick succession. His remarkable performance in the former event won for him the silver cup given by J. L. Batchelder, Jr., 1890.

Easily the most exciting moment of the day was when W. D. Allen 1911 cleared the bar at eleven feet, four and a quarter inches, eclipsing his previous Technology record of 11 feet, 1 1-2 inches, by almost three inches. W. C. Salisbury 1911, easily took second place with a vault of 10 feet, 8 inches, his nearest competitor being H. G. Greenleaf 1912, 9 feet 8 inches.

After a close struggle with A. B. Mason 1910, W. J. Pead, Jr. 1910, captured first place in the high hurdles, thereby winning permanent possession of the Hurd cup for this event. Pead also secured fourth place in the low hurdles.

Capt. Carl Gram won first place in the opening event of the afternoon, the 100 yard dash, closely followed by W. I. Seligman 1911, and W. C. Salisbury 1911. P. D. White 1911, secured fourth place.

H. G. Watkins 1912, created a veritable sensation when he took the lead in the mile run and held it to the finish, winning handily from McCarthy 1909, by a good hundred yards. This feat secured for Watkins the Batchelder cup. In the sprint to the tape R. D. Van Alstine 1911, defeated H. H. Howland, the 1909 star distance man.

The 120 yard hurdles event created more than ordinary interest from the fact that the winner became the proud possessor of the Hurd cup. A close struggle occurred between W. J. Pead, Jr. 1910, and A. B. Mason of the same class. Pead nosing out first place in a final desperate sprint. G. B. Cummings 1910, was third while H. S. Gott 1910, secured the consolation position.

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"Cap" Gram repeated his star work in the quarter mile run, in which but four men started. He crossed the line a winner in 52 4-5 seconds. W. C. Salisbury was a close second, while M. A. Oettinger 1912, beat J. I. Murray 1912, in the last five yards for the third ribbon.

A triple tie resulted in the high jump, R. H. Allen 1909, E. Stuart 1910, and P. W. Darymple 1912, being the "triplets." In the jump off for the medal, Allen won, with second going to Stuart and third to Darymple. C. W. Wilson 1910, of the gym team was fourth.

P. D. White 1911, led the field for the entire distance in the half mile run and crossed the tape twenty yards in advance of E. M. Potter 1910, who secured second place. C. P. Eldred, captain of the sophomore cross-country team was third and W. S. Davis 1910, was the fourth man.

O. V. Chamberlain 1910, put the 16 lb shot 36 feet, 5 inches thereby winning first place. H. S. Gott, ex-captain of the gym team was second with a put of 34 feet, 3 inches. D. F. Benbow 1912, was third and J. L. Bray 1912, fourth.

Although the distance in the broad jump was short, the contest was very close. Dick Gould 1911, won with a jump of 18 feet 9 inches. Becker 1912 made a good second with 18 feet 8 inches, and was followed by Gott 1910, and Fernstrom 1910, with jumps of 18 feet 6 3-4 inches and 18 feet 3 inches.

Nisbet 1909, had no trouble in taking the discus throw by putting the missile out 95 feet 6 inches. The other places were taken in by Ruby 1912, Chamberlain 1910, and E. Stuart 1910. The hammer throw went to Ruby, with a performance of 98 feet 7 inches and he was followed by Bray and Nisbet, who were the only other competitors in this event.

The summary:
100-yard dash—Won by C. W. Gram 1909; W. J. Seligman 1911, second; W. C. Salisbury 1911, third; P. D. White 1911, fourth. Time 10 4-5s.

220-yard dash—Won by W. C. Salisbury 1911; W. J. Seligman 1911, second; S. C. Reed 1912, third; K. D. Fernstrom 1910, fourth. Time 24 2-5s.

440-yard dash—Won by C. W. Gram 1909; W. C. Salisbury 1911, second; M. A. Oettinger 1912, third; J. I. Murray 1912, fourth. Time 52 4-5s.

880-yard run—Won by P. D. White 1911; E. M. Potter 1910, second; C. P. Eldred 1911, third; W. S. Davis 1910,

fourth. Time 2m 6 2-5s.

Mile run—Won by H. G. Watkins 1912; J. F. McCarthy 1909, second; R. D. Van Alstine 1911, third; H. H. Howland 1909, fourth. Time 4m 41 2-5s.

Two-mile run—Won by H. G. Watkins 1912; H. H. Howland 1909, second; C. H. Morrill 1912, third; J. N. Stephenson 1909, fourth.

120 hurdles—Won by W. J. Pead, Jr. 1910; A. B. Mason 1910, second; G. B. Cummings 1910, third; H. S. Gott 1910, fourth. Time 17 2-5s.



G. B. CUMMINGS 1910
Winner of 220 yd. Hurdles

220 hurdles—Won by G. B. Cummings 1910; A. B. Mason 1910, second; R. H. Allen 1909, third; J. Pead, Jr. 1910, fourth. Time 28 2-5s.

High jump—Tie between R. H. Allen 1909, E. Stuart 1910, and P. W. Darymple 1912; C. W. Wilson 1910, fourth. Height 5 ft. 5 1-2 in.

Broad jump—Won by R. H. Gould 1911; J. S. Becker, Jr. 1912, second; H. S. Gott 1910, third; K. D. Fernstrom 1910, fourth.

(Continued on page 2.)

CLEOFAN NOMINATIONS

Next Year's Officers—Seven
Members Finish This Year

Miss Flora Augusta Johnson 1910, of Newtonville, was the nominee for president of Cleofan for the next year, put up at the last meeting of the society held in the Margaret Cheaney Reading room.

The nominating committee, made up of Miss Adelaide M. Abell 1909, Miss Helen M. Longyear 1909, and Miss Rebecca H. Thompson 1909, also recommended Miss Florence H. Luskomb 1909, as vice-president, Miss Margaret A. (Continued on page 3.)

CALENDAR

MONDAY, MAY 10.

3:00 P. M.—Track work at Field.

TUESDAY, MAY 11.

4:30—Class Day Committee, 11 Pierce.
6:15—E. H. S. Club at the Technology Club, 83 Newbury St.

WEDNESDAY, MAY 12.

5:15—Union Dining Room Committee meets.

6:30—Mining Engineering Society dines at the Lombardy Inn.

6:30—Chemical Society dinner at the Union.