

THE TECH

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ADAPTATION OF CONCRETE BEING STUDIED BY CIVILS.

MANY THESES ON IT.

Arches, Standpipe, Warehouse, Dam, and Beams Among Subjects.

Concrete, with its use and adaptations, seems to be a popular matter for study among the civil engineering seniors this year. There are four theses on the designing of reinforced concrete arches, and theses on a concrete arch and approaches, on the design of a concrete standpipe, on the design of a concrete warehouse and on the design of a concrete dam. A series of tests is being run on reinforced concrete beams.

One thesis of local interest is an investigation of the water waste in the city of Boston.

Such theses as have been reported since the last list given out, are as follows:

Railroad Option.

"Plan for Grade Elevation at Newton Lower Falls," by M. Ames and H. H. Howland.

"Design for a Steel Railroad Bridge," by C. C. Barcus.

"Design for a Reinforced Concrete Arch," by G. A. Dubois.

"Design for a Two Hinged Steel Arch," by F. Garcia.

"A Study of Solid Floors for Railroad Bridges," by R. D. Hennen.

"Design for a Railroad Roundhouse," by F. H. McGuigan.

"Design for a Reinforced Concrete Arch," by T. W. Orr.

"Design for a Three Hinged Arch," by H. J. Ruggles.

Hydraulic Option.

"Investigation as to the Depth in a Vertical at which Ration of Observed to Mean Velocity is a Least Variable," by W. I. Griffin and M. E. Allen.

"Experiments to Determine Coefficients of Distribution of Certain Types of Sprinkler Filter Nozzles," by W. E. Barton and E. R. Smith.

"Gauging of Stream Flow by Chemical Means," by G. M. Belcher and C. S. Colson.

"Design for Reinforced Concrete Arch," by C. H. Boylston.

"Design for Approaches and Concrete Arch over the Charles River in Newton, Mass.," by A. E. Bremer and F. A. Cole.

"Design for a Reinforced Concrete Stand Pipe," by M. P. Burroughs.

"Investigation of Surface Curve of Weir Sheet and Best Profile for Roll-Way of Dam," by C. G. Carson.

"Design for Reinforced Concrete Retaining Wall," by H. H. Damon.

"Tests on Reinforced Concrete Beams," by R. W. Ferris and A. Dana.

"Design for a Reinforced Concrete Warehouse," by S. L. Davidson.

"Design for a Sewage Disposal Plant at Taunton, Mass.," by A. T. Dean.

"A plan for Elimination of Grade Crossing at Greenwood Avenue, Rumford, R. I.," by G. M. Dexter.

"Investigation of the Water Waste in the City of Boston," by H. C. Wilton and H. W. Griswold.

"A study of the Removal of Ledges Under Water," by H. T. Gerrish.

"Design for a Reinforced Concrete Dam," by G. M. Gikison.

"Design for a Reinforced Concrete Arch," by P. J. Hale.

"Study of Sewage Plant," by W. D. Milne.

RUMFORD MEDAL MEN TO TALK.

E. G. Acheson, who has been awarded the Rumford Medal by the American Academy of Arts and Sciences for distinguished work in his successful production of deflocculated graphite for lubricating purposes, will address the Society of Arts on the "Deflocculation of Non-Metallis Amorphous Bodies" in 2 Walker tomorrow night at 8 P. M. The address will be illustrated by experiments of exceptional interest.

TRUE TECHNOLOGY STUNTS PLANNED FOR TECH NIGHT.

AMATEUR ACTS READY.

Soph-Fresh Relay Race and Architects' Parade, Under Rebori's Direction.

Amateur stunts of all sorts will be on the program for Tech Night at the Boston Hippodrome. Not only will the general direction of the various performances be in the hands of Tech men, but the best part of the performance, from the standpoint of the institute sympathizers, will be performed by students.

That the stunts will be carried through with a vim is assured by the fact that Andrew H. Rebori, a graduate student in the architectural department, has consented to take the position of ringmaster and announcer. His experience in Tech Show will stand him in good stead, together with his ready wit and ability to imitate.

There has already been arranged a relay race between the sophomores and freshmen, each team to be composed of ten men. The uniforms to be worn will be other than the conventional, and the distance will be that which the weakest member of either team can run to the greatest advantage. F. D. Stewart and R. S. Breyer are arranging for the sophomore team, while W. J. Seligman is arranging for the freshman team.

The architects have taken up the idea of a course parade and already have stunts in preparation. It has been suggested to the civil engineers that the parade take the form of a competition between Course I and Course IV with floats and costumes. If this is arranged prizes will be offered by The Tech.

Mr. Towne is making final arrangements for stunts to be given by various members of the gymnasium team. Tomorrow there will be a meeting of the team to talk over what is possible in the line of amusing tricks and stunts. It is very probable that there will be two blindfold boxing matches, and an elephant race.

TWO PRACTICE GAMES.

Freshmen Divide Up and Will Play Today.

All candidates for the 1911 team are to show up for practice this afternoon. Each player will be tried out in the two games this week, half on Friday, and the other half on Saturday. There will be a practice game today between two teams made up of freshmen. The line-up will be:

Team A.	Team B.
McLoughlin, p.	Kenney, cf.
O'Neill, 2b.	Merrill, lf.
Williams, c.	Maguire, c.
Couill, lf.	Wood, rf.
Johnson, 3b.	de Florez, 3b.
Odell, 1b.	Cowee, p.
Yearance, ss.	Parker, ss.
Osborne, rf.	Schatz, 1b.
Hopkins, cf.	Blums, 2b.

SOPHOMORE BALLOTS OUT TODAY.

Technique Committee Votes Due Saturday

Sophomore Ballots.

Ballots for the Technique 1910 electoral committee are to be ready for distribution today and are due at the Cage at 9 o'clock Saturday morning. These ballots contain the names of all the members of the class. Twenty-five men are to be voted for on each ballot.

These twenty-five men will constitute the board which will choose the editors of Technique 1910, and thus this election becomes one of the most important in the classe's undergraduate life. It has been the custom to place on this committee not necessarily those members of the class who would do the best Technique work but rather those who would, through their connection with student activities, be better qualified to choose such editors from among their fellow-classmates.

NUMBER OF APPLICANTS LARGEST EVER RECEIVED.

ONLY A FEW SEATS LEFT.

Sale of Tickets and Posters Begins Today in Rogers.

More applications for seats for the Show were received this year than ever before in its whole history. All of the seats on the floor are sold for both performances, all but a few of the first balcony seats, and most of the second balcony. It was of course, impossible to give everyone the seats applied for, but in all cases the order was filled as nearly as possible. Many who applied for two dollar seats and were assigned cheaper ones or box seats, may be dissatisfied, but, "considering the sale, they were lucky to get any at all," says the management.

It is lucky that the number of applications was so large, as the Show needs all the money it can make. The Show is unfortunate this year in being unable to give a Malden performance, and in the heavy expenses of the one at Northampton. Advertising for the program, too, is hard to get this year, and for all these reasons, it is hoped by the management that all applicants for tickets will take those assigned to them, even if they are not exactly what was wanted.

Northampton comes in for its share of the popularity, and already about 200 seats for that performance are sold. The seats will all be at the Show office, 34 Rogers at 1 P. M. today.

The posters are out at last and will be on sale today. A departure from the usual custom is made this year in having the poster printed on a light grey mat and mounted on heavy cardboard. This makes it particularly effective, and brings it out well. The price, as usual, is 25 cents.

NAVAL ARCHITECTS INVESTIGATING.

Fuels, Engine Trials and Power, Steel Among the Subjects.

In Course XIII much of the thesis work is very new and each thesis is different from the other, there being many matters about ship design, performance of new type engines and fuel as used on ship board that little is known about. Another factor entering is the small number of students taking up the study, the Institute department being practically the only one of its kind in this country.

On fuels E. F. Heard and C. D. Steele are running a thesis together, which is "A Test on a Two-Cycle Gasoline Engine to Determine the Efficiency of Different Fuels." The test on the gasoline was finished in the Pierce laboratories at the Institute some time ago. The other tests will be carried out at the Institute.

"A Determination of Engine Power and Speed Trial on Steam Védette Boat 'Beth' is a thesis being carried forward by Joseph Pope, the determination of power being already finished in the engineering laboratories, while the speed trial and final test will be made with the boat at Marblehead.

Maurice E. Denny finished the actual work of his thesis last summer in the towing tanks at a shipyard in Scotland. The subject is "Tanks and Trial Results of the Twin Screw Steamer 'Hythe'." He is now at work on the computation.

L. H. Sutton is carrying on tests of the comparative corrosibility of iron and steel, many of which are to be made off Baker's Island, Marblehead, the others at the Charlestown Navy Yard.

B. U. LEADER ONCE AT TECH.

Jeremiah J. O'Sullivan of Lowell, who has been elected president of the non-college division at the Boston University Law School, attended the Institute two years, entering with the class of 1908.

STATE BILLS FAIL TO PASS MUSTER.

KNOCKS FAST AND FURIOUS.

Civic Club Refuses to Accept Measures of Real Massachusetts Court.

Politics is an amusement which is bound to become tainted unless everyone takes an active or at least an inactive but interested part. Gratton D. Cushing of Boston, a member of the state legislature, in his introduction to the civic club house of representatives' meeting last night at the Union also pointed out how this state's legislation accomplishes results for, although inferior in having longer sessions than in other states it is probably better in the long run as a large amount of good legislation is thereby pushed through.

An act for a bath house on the Revere Beach reservation for use during the entire year fathered by Rep. C. N. Morrison, was loudly denounced by Rep. Lisbet from Lynn, as its use would result in the increase in the number of the hospital inmates unless a medical examiner was on the premises and in the water.

Expert testimony was given from Prof. Sedgwick. Rep. Morrison said Prof. Sedgwick says dirt removal promotes health. Rep. Ruckmann counteracted the effects of this by quoting Prof. Sedgwick as saying that Boston sewage was contaminating Revere Beach water.

"Another tool for Governor Briggs" was the cry of Rep. Ellis against the bill for a commission on education.

Representative Seaver, otherwise renowned, acted as an expert witness and turned king's english evidence against the measure as its punctuation was poor.

Rep. Dewey from Wayback, in conjunction with Representative Hoole and Adams, decried the bill on the suspension of the Boston City Council, as it was an attempt of the Republicans in the state legislature to put all the Democrats in the city council out of a job.

In connection with the smoke nuisance bill, Rep. Dewey from Wayback, said that studying was even affected in the colleges within a stones' throw of the seated government. Rep. Seaver immediately soundly rated the gentleman from Wayback for even thinking of such a thing as throwing stones at the nearby colleges.

Ellis, Adams and Nisbet were selected a committee to arrange for the election of officers. Nominations for the offices of the Civic Club must be in at the Cage within two weeks from last night.

Morris K. Jessup, interested in civic affairs in general and who has been backing the Perry expeditions in particular, will likely speak at the dinner, the last event of the civic club this year. He will be here at the time as he has been secured by the civic club through E. R. Ellis secretary, for the last Huntington Hall Convocation to be held the eighteenth or nineteenth of next month.

TRIALS ON THE SIXTEENTH.

Relay Team To Be Finally Picked Then.

Final trials for the relay team, which will represent Technology in the New England inter-collegiate relay race at the Pennsylvania relay carnival, will be held Thursday, April 16.

A large number of men reported at the field yesterday, Coach Kanaly giving them individual work. Among the men out yesterday were: F. E. Bell 1910, H. W. Blackburn 1908, F. C. Dolke 1911, K. D. Fernstrom 1910, R. H. Gould 1911, A. A. Gould 1910, L. G. Glazier 1911, C. W. Gram 1909, P. Hart 1910, H. Lockett 1910, L. A. Loomis 1908, H. O. Mills 1910, J. D. MacKenzie 1911, W. T. MacCreddie 1911, G. H. Magee 1910, S. M. Niles 1911, H. J. Ruggles 1908, W. C. Salisbury 1911, E. Stuart 1910, F. D. Stewart 1910, P. D. White 1911, G. B. Wilbur 1911, J. B. Walcott 1911, W. O. Whiting 1911, W. H. Hildebrand 1911, J. A. Christie 1909, T. W. Orr 1908, B. L. Gimson 1908.