

### NAVAL ARCH LECTURE

Following are outlines of Naval Architecture lectures III, IV, and V, given May 16, 18 and 20 respectively.

#### LECTURE III, MAY 16.

Experiments with models and the determination of the most suitable dimensions.

The slip appropriate to screws of different pitch ratios.

Method of conducting model experiment.

How to make model screws.

Testing apparatus.

Treatment of results of model experiment.

Construction of tables of propeller "constants."

Efficiencies of engine and propeller.

Propulsion coefficients.

Effect of pitch ratio on efficiency.

How to use tables of propeller constants.

#### LECTURE IV, MAY 18.

Influence of depth of water on resistance.

Abnormal propulsive coefficients and reasons for same.

Formation of "solitary" or "canal" wave.

Rasmusseur's, Paulus', Rota's, and Yarrow's experiments.

Calculation of most suitable depths for vessels of different dimensions and speeds.

Calculation of worst depths and depths necessary to avoid all influence of the bottom.

Examples of calculation for a few typical destroyers.

#### LECTURE V, MAY 20.

Cavitation.

Trials of the "Daring."

Limiting thrust per square inch of screw surface obtained from these trials.

Conditions which affect the limiting thrust.

Cavitation in hot water and in vacuum.

Calculation of thrust and of propeller surface.

The "turbinia."

Tables of "cavitating speeds."

Probable developments.

Reducing gears.

Westinghouse and Parsons' types.

Foettinger hydraulic type of transmission gear.

Electric transmission.

The proposed use of "venture" tubes criticised.

### NORTHFIELD CONFERENCE

(Continued from page 1.)

Every evening the whole conference assembles to consider the important question of life-investment. This is discussed always by men who by their lives have earned the right to speak. Among those whom it is expected will be heard in this series are: E. T. Colton, Rev. A. P. Fitch, Rev. F. E. Higgins.

Reduced rates to East Northfield are offered on all the principal railroad lines as in past years. The cost to each delegate will be his railroad fare, five dollars for registration fee, and thirteen dollars for board and lodging during the ten days of the conference.

All Technology men who intend to attend the Northfield Conference this year should give their names as soon as possible to either W. W. Warner 1911 or J. K. Mason, graduate secretary of the T. C. A. In this way, accommodations may be reserved together for all members of the Technology delegation. Further information about the conference may be obtained from John A. Addison, 124 East Twenty-eighth Street, New York City.

### NOTICES

ELEMENTS OF ELECTRICAL ENGINEERING 653—COURSE II.

Prof. Smith's section will meet as usual this week.

#### COURSE VI.

INSPECTION TRIP. NO. SIX.

This trip will be made on Wednesday afternoon, May 18th, to the works of the General Electric Company at Lynn. The party will leave the Lowell Building at 1:15 P. M., taking electric for Park Street, changing there for Scollay Square and then taking electric for Lynn. The transportation expenses will be 31 cents. This trip is open to all men of Course VI in and above the third year. Each student intending to take this trip should drop his name in the third year problem box.

BIOLOGICAL SOCIETY.—Smoker at the Union Saturday, May 14, at 8 P. M. Prof. Kinnicut of Worcester Polytechnic will speak on "Student Days at the Institute and in Germany."

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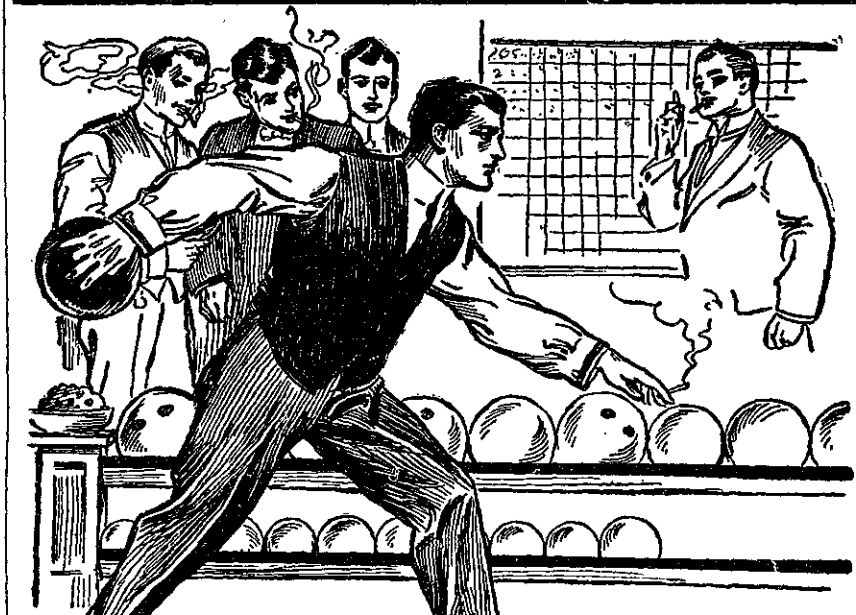
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