

## Senior Theses

L. J. Byrne—(1) Design of power plant in modern office building ; (2) Investigation of the Junker gas calorimeter.

Melville S. Flinn—(1) Design of a compressed air power plant for supplying air for raising water by means of the air lift ; (2) Calibration of Pilot tubes and investigation of the centrifugal blower.

C. C. Sampson and D. Roesch—(1) Design of a combined air lift pumping station and electric lighting plant for the village of Riverside, Ill. ; (2) Study of steam calorimeters with view of obtaining correct samples of steam.

W. G. Hoy—(1) Design of a power plant for an apartment house building ; (2) Comparison of the Carpenter & Parr calorimeters with the Malher Bomb.

O. Raymond Prescott—(1) Design of a 750 K. W. power plant for an electric interurban railway ; (2) An investigation of the errors of steam engine indicators.

H. A. Hart—Complete plans and specifications for sewer system for Franklin, Ind.

J. M. Watt—(1) Design of a power plant in a modern office building ; (2) Comparative test for the leakage of steam post engine valves, with saturated and superheated steam.

G. Manierre—(1) Design of a belt testing machine ; (2) Comparative test for the leakage of steam post engine valves with saturated and superheated steam.

E. J. Wickersham—(1) Design of a power plant for the I. C. R. R. suburban service ; (2) Investigation of Junker calorimeter.

F. C. Clark—Commutation.

Emile Silver—Design of railroad draw span steel structure ; complete general drawings and estimate of cost.

H. L. Hamilton—(1) Design of a 1,500 K. W. street railroad power plant ; (2) Comparison of the Carpenter & Parr calorimeters with the Malher Bomb.

A. Buie and E. W. Graves—Design and construction of a unipolar generator.

A. N. Jackson, G. W. Borst, M. J. Knapp—A comparison of two types of induction motors.

F. L. Collins and P. V. C. See—Breakdown tests on all kinds of insulation.

R. N. Davis, H. G. Zuckerman, A. B. Benedict and E. J. Hiller—A chemical and electrical study of transformer oils.

Jens, Frary and Williams—Motor speed control and its effect on efficiency.

Strang, McDonald and Peebles—Comparative tests of single phase and three phase transformers.

H. W. Clausen—A 256-foot single track draw bridge.

F. L. Travis—A 207-foot steel arch, single track.

F. A. Coy—Design of 550-foot reinforced concrete viaduct across the Vermillion River at Main Street, Streator, Ill.