Doctor Homer D. Holler, a graduate of Dennison University, who many years ago was the first Doctor's candidate at Ohio State University, in what is now the Department of Chemical Engineering, has completed a monumental investigation upon the "Theory and Performance of Rectifiers." This is published, together with J. P. Schrodt, as Technological Paper No. 265 of the United States Bureau of Standards.

This work investigates the performance of various types of rectifiers used for charging batteries and presents the theoretical principles used by the authors as the basis of explaining rectifier performance. Aluminum, tantalum, thermionic, and magnetic vibrating types of rectifiers were studied. The degree of rectification was also studied. Various factors were studied and developed to increase the efficiency of rectifiers.

Explanations were arrived at as to performance under different conditions and demonstrated by means of oscillograms as well as performance curves. The theory of rectification as it occurs during the process of charging the battery was developed. An equation and methods of computation has been developed from which the battery voltage for maximum output may be determined.

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**ELECTRICAL ENGINEERING**

Mr. E. B. Lloyd '17, has returned to Buenos Ayres, Argentine Republic, after a visit with his parents at Crestview, Ohio. He has been engaged in electrical work in South America a number of years for the Automatic Electric Co.

Mr. Harold R. Lewis '23, is on the Columbus sales force of the General Electric Company.

Mr. John Dunham '24, is with the Tennessee Power and Light Co. at Chattanooga, Tenn.

Mr. Russel P. Egry '24, is with the Duquesne Power and Light Co. at Pittsburgh, Pa.

Mr. Harold Wasson '24, is in charge of the Warren office of the Lincoln Electric Co. at Warren, Ohio.

Mr. H. E. Nelson '24, is with the Fort Wayne branch of the General Electric Co.

Mr. Max Rayburn '24, is with the Buckeye Steel Castings Co. at Columbus, Ohio.

Mr. H. W. Retigg '24, is teaching in the high school at Mantau, Ohio.

Mr. P. E. Rush '24, is an assistant instructor in the Dept. of Electrical Engineering at the Ohio State University this year.

Mr. F. W. Thaiss '24, is with the Ohio Bell Telephone Co. at Toledo, Ohio.

Mr. H. A. Thurston '24, is with the Columbus Rail, Power and Light Co. at Columbus, Ohio.

Mr. H. E. Courtney '18, is with the Doherty interests in New York City.

Mr. W. M. Kellog '23, is teaching at the University of Arizona, Tucson, Ariz.

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**CERAMIC ENGINEERING**

Mr. H. E. Davis '19, is with the Tropico Potteries Co. at Los Angeles, Calif.

Mr. Geo. P. Fackt '07, of the Denver Terra Cotta Co., has combined his interests with the Northwest Terra Cotta Co. at Chicago and spends one half of each month at Chicago and the other half in Denver.

Mr. A. C. Gerber '15, is now with the Electric Porcelain and Mfg. Co. at Trenton, N. J.

Mr. K. M. Kautz '23, is now with the St. Louis Terra Cotta Co. at St. Louis, Mo.

Mr. H. J. Knollman '12, is with the Vitrixfrax Incorporated at Los Angeles, Calif.

Mr. Hobart N. Kramer '22, has resigned from the A. C. Spark Plug Co. and has accepted a position as Ceramic Engineer at the Illinois Porcelain Co. at McComb, III.

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**METALLURGICAL ENGINEERING**

Mr. Geo. Putnam is assistant superintendent of open hearth at the American Rolling Mills Co., Middletown, Ohio.

Mr. Robt. E. Strafford '24, is with the Youngstown Sheet and Tube Co. at Youngstown, Ohio.

Mr. G. D. Brooks '16, is in charge of fuel problems in connection with new constructions for the Colorado Fuel and Iron Co. at Pueblo, Colo.

Mr. Y. J. Bruce '23, is with the Jones and Laughlin Steel Corporation, South Side Works, Pittsburgh, Pa.

Mr. R. F. Stillwell '23, is with the Consolidated Power and Light Co. at Huntington, W. Va.

Mr. S. F. Bradel '23, is at Buffalo, N. Y. with the Donner-Union Coke Corporation.

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**MECHANICAL ENGINEERING**

Mr. Walter N. Ford '24, is working as a draftsman with the Pennsylvania Rubber Co. at Jeanette, Pa., and is living at 107 N. 9th Street.

Mr. H. D. Gibson '22, is with the Ingersoll-Rand Co. of New York City and has applied for Junior membership in the A. S. M. E.

Mr. Harold D. Jones '24, is working in the drafting room of the Mt. Vernon Bridge Co., Mt. Vernon, Ohio, and is living at 611½ Gambier Street.

Mr. Wayne M. Dornbirer '22, is Assistant Superintendent in the field for the Middle States Construction Co., 524 E. Hudson Street, Columbus, Ohio. His home address is 1784 Bryden Road. At present he is installing the conveying and elevating system for the new chemical plant of the Ford Motor Company at Iron Mountain, Mich.

Donald E. McGuire '23, is in the drafting room of James B. Clow and Sons at Coshocton, Ohio. His home address is 732 S. Lawn Ave., Coshocton.

Mr. L. G. Leichner '22, was married on Thursday, October 13, 1924, to Miss Dorothy Jean Hill at Dayton, Ohio. His address is 732 S. Lawn Ave., Coshocton.

Mr. N. M. Rieger '23, was married on Thursday, October 13, 1924, to Miss Dorothy Jean Hill at Dayton, Ohio. Mr. L. G. Leichner '22, is now with the American Rolling Mill Co., Ashland, Ky., in the Operation and Maintenance Department.

Mr. Loy A. Updegraff '23, is now with the Empire Refineries Co. at Ponca City, Okla., and is employed in one of the refineries.

Harold G. Walters '24, has been transferred from the Empire Refineries Co. of Bartlesville, Okla., to the
Is he a hard taskmaster or a loved leader?

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ALUMNI NOTES
(Continued from page 20)

G. S. Burrell, '04, is Commander, Corps of Civil Engineers, U. S. Navy, stationed at Philadelphia. He was a visitor on the Campus in November.
Oliver G. Shafer, '10, is County Surveyor of Noble County, Caldwell, Ohio.