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## Sigma XI Elects

The following is the list of 18 alumni of Ohio State who, on Saturday morning of the Semi-Centennial Week, were initiated into Sigma Xi, national university scientific fraternity, election to membership in which is voted as the highest award in an alma mater's gift to her graduates who have signally distinguished themselves by some notable achievement in an important branch of scientific endeavor:

Frank H. Blackburn, mechanical engineering, '96, chairman of the standards committee of the National Lamp Works, Cleveland, elected on a basis of his study of flashing filament and of his research into equipment for treating the filament; also because of his development of a system for gauging lamp tubing.

James Bark Calderwood, mechanical engineering, '08, professor of mechanical engineering in the Kansas State Agricultural College, elected because of his many important publications dealing with mechanical engineering problems.

Walter M. Dann, mechanical engineering, '02, engineer in the transformer department of the Westinghouse Co., elected in view of his many important published researches and because of his taking out of numerous patents covering the results of his discoveries in transformer researches.

Frank M. Dorsey, mechanical engineering, '08, general manager of the experimental laboratories of the National Lamp Works, Cleveland, elected for notable work during the world war when he was in charge of the development division of chemical warfare service at Washington, D. C. Among Mr. Dorsey's invaluable services to the government both in defensive and offensive warfare invention was his perfection of the gas mask and his contribution to the manufacture of poison gases.

Clare Olin Ewing, B. Sc., '12, M. Sc., '13, elected because of his work in the governmental division of pharmacognosy and because of many searching scientific publications.

William George Gaessler, B. Sc. in Pharmacy, '11, research chemist of the Iowa Agricultural experiment station, elected because of his work in a series of scientific publications dealing with different chemical questions.

Edward Frederick Gehrken, electrical engineering, '94, engineer in the transformer department of the General Electric Co., elected in recognition of his numerous patents embodying the results of his research and discoveries.

Frank Haas, civil engineer, '96, mechanical engineering, '96, consulting engineer of the Consolidated Coal Co., elected as a reward for signal engineering feats in coal mining and for scientific publications.

Charles P. Hoover, B. A., '08, chief chemist of the Columbus filtration plant, for important work in connection problems, including a new method for the manufacture of alum on a large scale, and

for the publication of many articles dealing with his work.

Clarence Roscoe King, B. Sc. in chemical engineering, '11, head of the organic division of the research laboratories of the Norton Engineering Co., elected on a basis of numerous patents covering his scientific research in grinding-wheel work.

John Conwell Lincoln, mechanical engineering, '88, president of the Lincoln Electrical Co., Cleveland, for notable inventions and important researches in electrical work.

Jesse Joseph Linebaugh, mechanical engineering, '99, supervising engineer of the railway division of the General Electric Co., elected to membership in recognition of writings on his research work and for the invention of a power regenerator for direct current for electric railways.

Zeno Paine Metcalf, B. A., '07, professor of zoology and entomology in North Carolina State College, for a wealth of important contributions to entomology.

Frank William Rane, M. Sc., '91, Massachusetts state forester, elected for notable achievements in forestry, microscopy and horticulture.

Augustine Dawson Felby, B. Sc., '93, chief of the department of botany of the Ohio State experiment station, elected because of his original work in botany, especially in the practical application of plant pathology, and for many scientific publications.

Edward Henry Tenney, mechanical engineering, '05, chief engineer of the power plant and general superintendent of the Ashley street station of the Union Electric Light and Power Co. of St. Louis, elected for achievements in engineering and for published works on engineering.

Francis Edmund Wynne, mechanical engineer, '02, manager of the railway equipment department of the Westinghouse Co., elected in recognition of invaluable publications on the result of research work.

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Mr. W. L. Chubb, an alumnus of the Ohio State University, College of Engineering, '05, M. E. in E. E., has recently been promoted by the Westinghouse Electric & Manufacturing Company to the position of Manager of the newly formed Radio Engineering Department.

After graduation from Ohio State, Mr. Chubb entered the employ of the Westinghouse Company as a graduate student in August, 1905. After completing this work he entered the Research Department and devoted his attention to the development of silicon and other magnetic steels. In 1908 he was promoted to the position of Manager of the Electrical Section of the Research Department in which work he continued until August, 1920, when he was given charge of the Radio Engineering Department.