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FAMOUS OHIO ENGINEERS

Number Two

BY GEORGE E. MERKEL, '26

EDWARD ORTON, Jr.

Born in New York State on October 8, 1863, Edward Orton, Jr., was educated at Ohio State University. He established the first school in the United States for instruction in the technology of clay glass and cement industries in 1894, of which he was director until 1916. He began in 1896 the manufacture of pyrometric cones for regulating the firing process of ceramic products. He has accomplished much in the line of ceramics and was in active service in the motor transport corps during the World War.

FRANKLIN A. RAY

Franklin Arnold Ray was born in Rome, Ash-tabula County, Ohio, April 13, 1862. He graduated in Mining Engineering at Ohio State in 1887. He was chief engineer for the Columbus-Hocking Coal and Iron Company from 1889 to 1892. He was dean of the Engineering College at Ohio State 1904-06; also consulting director of the Ohio State School of Mines. He spent some time in Russia investigating conditions of coal reserve, mining conditions, deposits, etc. He has done a great work in the development of the mining industry.

HENRY HOWARD

Henry Howard was born at Jamaica Plain, Massachusetts, on July 5, 1868. He received his education at Massachusetts Tech. and received his degree in 1889. At that time he went with the Grasselli Chemical Company of Cleveland and is now in charge of research and development work of this company. He organized and directed the department of the United States Shipping Board, which provided and trained personnel for the new American Merchant Marine. He was also a member of the committee of the National Association of Manufacturers appointed by Secretary Hoover to represent American Industry.

CHARLES F. KETTERING

Charles Franklin Kettering was born at Londonville, Ohio, August 29, 1876. He received degrees in electrical and mechanical engineering in 1904 at Ohio State. He started out with the Star Telephone Company of Ashland and with the electrical department of the National Cash Register Company at Dayton, Ohio. He invented the starting, lighting and ignition device for automobiles, later known as the "Delco" System. He invented, perfected and put on the market the "Delco-Light" for farm houses. He is now president and general manager of the General Motors Research Corporation.

CHARLES H. PAUL

Charles Howard Paul was born at Rockport, Massachusetts, March 10, 1875. He attended Massachusetts Tech. from 1892 to 1895. He was with the Boston waterworks from 1896 to 1900 and with the Bureau of Filtration at Philadelphia from 1901 to 1904. He was construction engineer of the lower Yellowstone Project and also had charge of construction of Arrowrock Dam at Boisi, Idaho (the world's highest dam), from 1911 to 1915. He has been with the Miami Conservancy District since 1915 on design and construction of flood control works for the Miami Valley.