

HAROLD FREDERICK COALES, who was born on 16 June, 1871, died on 24 May, 1964.

After four years as articulated pupil to Mr H. G. Coales (AM), Engineer and Surveyor to Market Harborough Urban District Council, he became in 1891 Engineering Assistant to Mr John Anstie (AM), at Westminster, where for the next five years he was engaged on main drainage works costing £150 000. In 1896 he was appointed Engineer and Surveyor to Sunbury-on-Thames Urban District Council, so setting the pattern for the rest of his working life, since he remained in this position until his retirement in 1936. In a rapidly developing area, he designed and carried out a main drainage scheme costing £187 000, constructed swimming baths, a cemetery, a refuse destructor, road works, and much new housing (his design being adopted by a number of other authorities). He invented a flood stopper valve which was used at Sunbury.

Mr Coales specialized in main drainage, road engineering, and municipal work, and became a member of the Institution of Municipal Engineers in 1896. He was a Licentiate of the Royal Institute of British Architects, and a Member of the Royal Sanitary Institute.

He was elected an Associate Member in 1910.

He is survived by two sons.

STANLEY DYMOCK CANVIN, B.Sc.(Eng.), who was born on 23 February, 1896, died on 30 June, 1964.

Educated at Bedford Modern School, he studied engineering at King's College, London, where he received the degree of B.Sc.(Eng.) in 1922.

His practical training under Messrs W. H. Allen Sons & Co. Ltd, Engineers, of Bedford, was interrupted by World War I. From 1916-19 he served in France and Mesopotamia as a Lieutenant in the Royal Field Artillery. He was mentioned in despatches and awarded the Royal Humane Society's silver medallion and bronze medal for saving life on active service.

In 1922 he joined the Derwent Valley Water Board as Resident Engineer, and until 1930 was engaged on maintenance of the aqueduct and pipe lines and on the design of new works, including a survey for the laying of the Board's second line of pipes from Derwent Dam to Ambergate Reservoir. He joined the Metropolitan Water Board in 1930 as Senior Assistant Engineer, and later—as Resident Distribution Engineer—was largely responsible for the maintenance of water supplies in West London during air attacks in World War II.

Mr Canvin's most notable appointment came in 1946 when he became Chief Engineer and General Manager of Glasgow Corporation Water Department, a position he held until his retirement in 1961. During that period he was responsible for many new capital works of great importance and for considerable extensions to existing works, so that the enormous increases in consumers' demands were anticipated.

Mr Canvin, an Associate of King's College, London, was Chairman of the Glasgow and West of Scotland Association of the Institution and at one time President of the Institution of Water Engineers. His contributions on water supplies to the technical press and professional institutions included a short article in the *Proceedings* on 'Glasgow Corporation and the Trossacks'. P. 9 (News, Feb. 1958), N5.

Elected an Associate Member in 1927, he became a Member in 1937.

He is survived by his widow, a son, and a daughter.