

He was elected an Associate Member in 1948. He was also an Associate Member of the Institution of Structural Engineers, a Member of the Institution of Municipal Engineers, and a Member of the Royal Society for the Promotion of Health.

He is survived by his widow and two children.

ARCHIBALD HUGH McMURDO, M.B.E., who was born on 28 June, 1880, died on 19 October, 1959.

He was educated at Dunoon Grammar School and studied engineering at the Royal Technical College, Glasgow. He received his practical training as a pupil of Messrs Warren and Stuart, M.M.I.C.E., Glasgow, from 1896-1901.

In 1901 he joined the staff of the Chief Engineer, Glasgow and South-Western Railway, as a General Assistant. In 1910 he was appointed a General Assistant on the staff of the Engineer-in-Chief, Highland Railway, and in 1914 was appointed Chief Assistant Engineer.

In 1923, Mr McMurdo joined the London Midland and Scottish Railway as District Engineer in the Highland district, and later became Permanent Way Assistant to the Chief Engineer at Euston. He was finally appointed Divisional Engineer (Scotland), and retained this position until he retired in 1945.

Mr McMurdo was made an M.B.E. in 1920.

Elected an Associate Member in 1906, he was transferred to the class of Members in 1922.

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

ARTHUR ALBERT ROWSE, C.B.E., M.A. (Cantab.), B.Sc.(Eng.), who was born on 7 May, 1885, died on 27 June, 1959.

He was educated at Portsmouth Municipal Secondary School and received his practical training at Portsmouth Royal Dockyard. He studied engineering at the Imperial College of Science and Technology, where he obtained an Honours B.Sc.(Eng.) degree in 1906.

He was awarded a Whitworth Scholarship and later he was engaged on research work on gaseous explosions under Professor B. Hopkinson, M.I.C.E., at Cambridge, where he obtained a first-class Honours degree in Engineering. In 1912 he was appointed an Engineering Inspector to the Board of Education. During the First World War he was at first Superintending Engineer, Ministry of Munitions, in charge of the Midland area, and later Chairman of the Machine Tool Release Committee, Chairman of an Area Engineering Board, and Chief Engineer, Trench Warfare Department. At the end of the war he was made an O.B.E.

In 1919 Mr Rowse became Production Director of Morris Motors Ltd, in charge of automobile production. From 1933 he served as a director or consultant concerned with engineering production with several companies, including the Telsen Electric Co., Ltd, Gambrell Radio Communications Ltd, Armstrong Whitworth Aircraft Ltd, Coneyare Foundry Ltd, Abingdon Works Ltd, Beardmore Diesels Ltd, Webley and Scott Ltd, and the Daimler Co., Ltd.

In 1936 he became General Manager of the Aircraft Division of Rootes Securities Ltd, and organized the entire aircraft activities of the company, including the planning, erection equipment, organization, and staffing of an aero-engine factory at Speke.

For a period at the beginning of the Second World War, Mr Rowse was Controller of Machine Tools in the Ministry of Supply, and during and after the war he was a director of several companies associated with the war effort. He was Chairman of S. G. Brown Ltd (manufacturers of gyro compasses and electronic equipment for the Navy), of Langley Alloys Ltd (a firm manufacturing high-duty alloys, which he started himself in 1938), and of Venner Ltd (manufacturers of time switches, parking meters, and a lightweight silver-zinc battery). He was also an honorary adviser to the Admiralty Compass Observatory.

He was made a C.B.E. in 1946.

Mr Rowse was a member of the Institution of Mechanical Engineers and of the Institution of Electrical Engineers.

Elected an Associate Member in 1919, he was transferred to the class of Members in 1939.

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### CORRRIGENDA

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p. 292, § 32. *In the second of the "simultaneous equations" the word "Pre-works" should read "Post-works"*

§ 33, line 3. *For ". . . however, those two responses were obtained", read ". . . howsoever those two responses were obtained".*

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