

Sir Stanley was awarded the O.B.E. in 1934, made C.B. in 1937 and became K.C.B. in 1938. For his liaison work with the United States Navy in World War I he received the American Navy Cross in 1918. Author of several papers presented to the Royal Institution of Naval Architects, he was awarded the Charles Parsons Memorial Medal in 1941. He was Vice-President of the British Welding Research Association and of the Institution of Professional Civil Servants.

He was elected a Member in 1938.

Lady Goodall predeceased her husband and there were no children. He is survived by a nephew, Mr H. R. Jarman.

ALEXANDER ROBERT ENTRICAN, *C.B.E.*, who was born on 28 January, 1898, died in April 1965.

He studied engineering at Auckland University College and his early experience (1917–1920) was first with Auckland Electric Tramways, then as Assistant to the City Engineer, Auckland, and next with Hay & Vickerman, Consulting Engineers, Wellington. A turning-point in his career came in 1921, when he became Engineer in Forest Products to the State Forest Service in Wellington, a position he retained until 1938.

Mr Entrican was a man of unusual vision and foresaw as early as the '20s the type of organization needed to care for and utilize the forest resources then being created. Later he built that organization. He was one of the pioneers in staff training in the New Zealand Public Service.

In 1939 he was appointed Director of Forestry to the New Zealand Government, and so continued until his retirement in 1961. In afforestation he showed remarkable drive, and his life-long battle for the establishment of commercial exotic forests led to New Zealand's present pulp and paper industry. With the most up-to-date equipment, he undertook extensive forest protection measures, involving fire-fighting, radio control, etc, and installed the most advanced sawmill south of the equator for the conversion, kiln drying and merchandizing of timber, with an annual capacity of 22 million board feet. He was directly responsible for the largest logging activities in New Zealand and for the development of an integrated sawmill and pulp and paper scheme. This last involved the expenditure of over £14 million, plus a similar figure for allied public works.

Author of many articles on the properties and uses of New Zealand woods, Mr Entrican was a member of the American Society of Test Materials, the American Wood Preservers Association, the Swedish Forestry Society and the New Zealand Institute of Foresters. He was awarded the *C.B.E.* in 1955.

He was elected an Associate Member in 1926.

He is survived by two daughters.

JOHN NORMAN PEIRCE, who was born on 1 January, 1889, died on 28 April, 1965.

Educated at Waverley Road Technical School, Birmingham, and Somerville School, Cheshire, he received five years' practical training with E. F. Blakeley & Company at Vauxhall Ironworks, Liverpool, and passed the Associate Membership examination in 1914.

After some further experience with E. F. Blakeley & Company, his interest in structural engineering led him, in 1910, to join Mr B. L. Hurst (M), whose

firm specialized in structures. With them he was to remain for the rest of his working life. As assistant to Mr Hurst he was from 1910–1915 engaged on the design of road and railway bridges for the Great Western Railway, on steelwork and foundations for the Imperial College of Science, South Kensington, a warehouse in Liverpool, a synagogue in Bloomsbury, a tannery in Bermondsey and an extension to the Royal Naval College, Dartmouth. He joined in consultations on reinforced concrete construction for the Cunard building, Liverpool, and for a cold store at the Royal Albert Docks.

During World War I he served from 1915–19 as a Gunner in the Royal Garrison Artillery, then with the Royal Engineers. He was demobilized with the rank of Captain in 1919.

After the war he rejoined Mr Hurst as Chief Assistant, dealing with bridge-work and structures for large buildings—an elevated water tank and compressor foundations for Eastman's Dye Works at Acton, reconstruction of the R.A.F. Club, Piccadilly, the National Institute for the Blind, Bermondsey Borough Council swimming baths, Westminster Bank, Threadneedle Street, reconstruction of the Army & Navy Stores, three branches of Lloyds Bank, and other projects.

In 1930 he went into partnership with Mr B. L. Hurst (the firm now renamed B. L. Hurst & Peirce) and became responsible for the design and supervision of structural engineering work for many large buildings, including the new building on Victoria Embankment for Imperial & International Communications Ltd (shoring and safeguarding surrounding property and retaining walls as well as foundations and structural steelwork), the new Shell-Mex building on the Hotel Cecil site, Strand, Brettenham House, the Duchy of Lancaster building in Lancaster Place, Hull University, the Bank of England New Change, Bank of London & South America, John Lewis, Oxford Street and the Admiralty Citadel in the Mall. He was also consulted on the Shakespeare Memorial Theatre, Stratford-on-Avon. In 1943, on the death of Mr Hurst, he became Senior Partner.

Himself for many years a church organist, he took particular interest in the restoration of several churches, including St Clement Danes in the Strand. Here in 1955 he was Engineer-in-Charge and derived great pleasure from the reconstruction of so fine a church and in the fact that he lived to see its re-opening.

In 1958 Mr Peirce retired from the firm (now re-named Hurst, Peirce & Malcolm), though continuing his association as a consultant until 1963, when he gave up active work completely.

He was a member of the Institution of Structural Engineers and of the Association of Consulting Engineers. He also served on the LCC Tribunal of Appeal and on various drafting committees of the British Standards Institution.

Elected an Associate Member in 1915, he became a Member in 1932.

He is survived by his widow and one son.

FRANK LESLIE WOOLDRIDGE, who was born on 17 November, 1901, died on 21 April, 1965.

Educated at Wolverhampton Grammar School, he studied engineering at Staffordshire County Technical College from 1920–23. In 1927 he passed the Associate Membership examination.