

**MALCOLM GORDON JOHN McHAFFIE**, M.I.C.E., who was born on 27 September, 1881, died on 16 November, 1958.

He was educated at Hartley (now University) College, Southampton, and received his early engineering training under Mr W. H. Williams, A.M.I.C.E., from 1896–1901. From 1901–1906 he was an Assistant Engineer in the London and South-Western Railway Company's Dock Engineer's Office and from 1906–1910 an Assistant Engineer on the construction of new locomotive works at Eastleigh for the London and South-Western Railway Company. From 1910–1912 he was an Assistant Engineer in the designing office for new works at Southampton, engaged principally on the buildings around, and equipment of, a new 16-acre dock and the Trafalgar Graving Dock. From 1912–1924, as Chief Engineering Assistant to the Docks Engineer, Southern Railway, he was engaged on many aspects of dock engineering.

During the First World War Mr McHaffie was on active service from 1916–1919 with the Corps of Royal Engineers and attained the rank of Acting Major.

In 1924 he became Resident Engineer at the Southern Railway Company's New Dock at Southampton and in 1936 he was appointed Docks Engineer. He remained there until 1948, when he established his own private practice.

He was founder chairman of the Southern Association of the Institution, also founder Chairman of the Institution of Transport and the Engineer's Guild, and held the rank of Colonel in the Engineer and Railway Staff Corps.

Mr McHaffie was a Member of the Smeatonian Society of Civil Engineers, a Member of the Association of Consulting Engineers, and a Past-President of the British Section of the Société des Ingénieurs Civils de France. He was awarded a Telford Premium for his Paper<sup>1</sup> to the Institution on "Southampton Docks Extension", and he delivered the 1949 Vernon-Harcourt Lecture to Students on "A century of progress in dock and harbour engineering".

For his work in furthering relations between British and French Engineers he was awarded the Croix de Chevalier du Mérite Maritime in 1953.

Elected an Associate Member in 1913, he was transferred to the class of Members in 1925, and served as a Member of Council from November 1942 to November 1947.

He is survived by his widow, Mrs Marion McHaffie.

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1. J. Instn civ. Engrs, vol. 9, p. 184 (June 1938).

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**FREDERICK NICHOLAS GLOVER TAYLOR**, who was born on 29 January, 1884, in Glasgow, died on 4 December, 1958, in London.

Mr Taylor was educated at Kelvinside Academy, Glasgow, and King William's College, Isle of Man. He served his apprenticeship under the late Mr W. C. Easton, M.I.C.E., Consulting Engineer for the Glasgow Main Drainage, and was subsequently appointed to the staff of the City Engineer of Glasgow.

In 1908 Mr Taylor joined Messrs Charles Brand and Son, Civil Engineering Contractors, as Engineer-Agent on the Glasgow Main Drainage. During his long service with this firm, he was responsible for the tendering, organizing and execution of heavy civil engineering works of magnitude and complexity. An experienced tunnel engineer, he was a recognized authority on the technique of soft-ground tunnelling in compressed air and in difficult conditions. His

considerable experience in this field was of great value throughout his professional career, when he was engaged on the construction of various extensions of the London underground railway system, and on the driving of tunnels for various purposes under the Thames, Clyde, Severn, Firth of Forth, and Tyne.

As a Member of the Joint Committee formed in 1947 to advise the Minister of Labour and National Service, he rendered valuable assistance in the framing of "The Work in Compressed Air Regulations", which was eventually issued in January 1958. The prestige of his unrivalled experience and his forthright persistence played a large part in ensuring the practicability of these statutory regulations which have now taken the place of the recommendations made by the Institution in 1936.

Mr Taylor's experience was not, however, limited to tunnelling. He carried out various dock works at Leith, Aberdeen, Millwall, Portishead, and London, and was engaged on sewage purification works, waterworks, and railways. During the 1914-18 War he served in Gallipoli and Egypt as a Captain in the Royal Engineers.

In 1936 Mr Taylor was made a director of Messrs Charles Brand and Son, Ltd, and celebrated 50 years' service with the firm in May 1958. At the time of his death he was engaged on the scheme to provide tunnels from Whiteinch to Linthouse under the River Clyde.

He was awarded the Crompton Prize in 1945 for his Paper<sup>1</sup> on deep land foundations. Elected an Associate Member in 1911, he was transferred to the class of Members in 1926.

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1. "Methods of constructing deep land foundations."

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