

trustee of the National Portrait Gallery, and from 1946–1960 a governor of Rugby School.

He was made an Honorary Member of the Institution in 1947.

Widowed in 1963, he had no children.

PERCY LEWIS JONES, *M.C.*, *B.Sc.*, who was born on 25 November, 1886, died on 11 June, 1966.

Educated at Taunton School, he studied engineering at University College, Cardiff, where he received the degree of *B.Sc.(Mech.)* in 1909. Practical training at the Great Western Railway's locomotive shops near Cardiff occupied over three years between school and university.

Starting his career at Liverpool University in 1909 as Assistant Lecturer in Engineering, he abandoned academic life for industry three years later and became Assistant Engineer to Metropolitan-Vickers Electrical Company Ltd, at Trafford Park, Manchester. In their Mechanical Engineering Department he was engaged on the design, construction and testing of steam turbines of all types.

During World War I he served for four years in France and Flanders, enlisting in the Infantry in August 1914; he became a 2nd Lieutenant in the Royal Artillery in November 1914, and a Major in 1918, in charge of 222 Siege Battery, Royal Garrison Artillery. He was awarded the *M.C.* and Bar.

After the war he rejoined Metropolitan-Vickers in Manchester, as Chief Assistant to Mr H. L. Guy, Chief Engineer in the Mechanical Department, where he was again concerned with steam turbines—their design, construction and official testing. From 1919 to 1922 he was in charge of experimental turbine plant.

A decisive change came in 1922, when he left Metropolitan-Vickers to join Swan, Hunter & Wigham Richardson, Ltd, Newcastle-on-Tyne. To this firm he devoted the rest of his working life, concentrating on the technical and administrative side of marine engineering. Starting as Technical Manager of the Engineering Department, he became Joint General Manager of the Department in 1935, and finally in 1950 a Director of the company.

The Engineering Department of which Mr Jones became Technical Manager in 1922 was responsible for installing in ships of all kinds geared turbines, diesel engines, triple and quadruple expansion engines and marine boilers. During his 13 years as Technical Manager 141 ships were variously equipped—fast passenger liners, oil tankers, whalers, cable ships and cargo boats, most of the machinery supplied being manufactured in his department. Its initiation and detailed preparation were his responsibility, and he was in charge of all design and drawing offices. Later as Joint General Manager he supervised the design, construction and testing of marine propelling machinery of all types.

In addition to the work in Newcastle, he travelled widely at home and abroad, representing the firm at conferences on legal and technical matters. He retired in 1960.

A Whitworth Exhibitioner, Mr Jones was a member and at one time President of the Institution of Mechanical Engineers, a member of the Institution of Marine Engineers and of the Society of Naval Architects and Marine Engineers of America. He was also a member of the Council of the

North East Coast Institution of Engineers and Shipbuilders, and in 1945 became a Director of the Wallsend Slipway and Engineering Company Ltd. Author of several papers, he delivered in 1938 the Thomas Lowe Gray Lecture to the Institution of Mechanical Engineers, and presented to the British Association in 1949 his paper on 'Marine Engineering'.

He was elected an Associate Member in 1912 and became a Member in 1933. Thus for over 50 years he was on the Roll of the Institution.

He is survived by a son.

WILLIAM DAWSON BEATTY, O.B.E., B.A., B.A.I., who was born on 31 December, 1887, died on 3 July, 1966.

Educated at Corrig School, Kingstown, he studied engineering at Trinity College, Dublin, where he graduated in 1908. There followed two years' pupilship with Mr P. H. McCarthy, M.I.C.E.I., Consulting Engineer, of Dublin, to whom he subsequently acted as Assistant on water and sewerage schemes for urban and district councils in various parts of Ireland. In 1913 he joined the Manchester Ship Canal Company, but World War I changed his plans. With a commission in the Royal Engineers, he served in Palestine from 1915 to 1919 with the 7th Field Survey Company, E.E.F. He was twice mentioned in Dispatches. In 1919 he was posted to the Military Works Department, India, as Staff Captain to the Chief Engineer, Southern Command, later becoming Deputy Assistant Director.

A development which shaped his future for the next 20 years was his appointment in 1921 as Executive Engineer (Maintenance) to the Commissioners for the port of Rangoon. Here under Mr E. C. Niven (M), Chief Engineer, he was in charge of all maintenance work—wharves, buildings, roads, railways and workshops. While in England on leave in 1924 he made a further study of wharf design at home ports, and on his return to Rangoon became Executive Engineer, Projects, with responsibilities which included the preparation of plans and estimates and the construction of several depots, including jetties, godowns, roads and railway sidings. In 1928 he began investigating plans for the reconstruction and extension of the Commissioners' wharves (borings, test piles, etc.) and in 1931 was in charge of a hydrometric survey of upland waters discharging into the Rangoon River. It was in this year that he was appointed Port Engineer, Rangoon, on the retirement of Mr Niven—and the decision to terminate the position of 'Chief Engineer'. His last two years with the Rangoon Commissioners (1939–1941) overlapped with his work during World War II for the Ministry of Home Security. On his return to England he was engaged from 1942 to 1949 as Assistant Civil Engineer-in-Chief (temporary) at the Admiralty. He retired in 1950.

Mr Beatty was awarded the O.B.E. in 1950. He was President of the Association of Engineers in Burma in 1935, and Acting Chairman to the Commissioners of the Port of Rangoon in 1934, 1935 and 1938.

Elected an Associate Member in 1920, he became a Member in 1933.

His death came after a prolonged illness. He is survived by a sister.