

Yorkshire Railway Company, becoming Manager of the Locomotive Works first at Miles Platting and then at Horwich, where the electrical and other machinery required on the system was made, largely to Mr. Hoy's design. Later he was appointed Chief Mechanical Engineer, in which capacity he had charge, under Mr. J. A. F. Aspinall, General Manager, of the electrification of the Liverpool and Southport line and many other important works. In 1904, at the invitation of the Directors, he undertook the reorganization and management of Messrs. Beyer, Peacock and Company's locomotive works. Mr. Hay was elected an Associate Member of The Institution on the 1st December, 1891, and was transferred to the class of Members on the 16th February, 1907.

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ARTHUR JOHN HUGHES, C.I.E., born in 1843, died at Eastbourne on the 9th March, 1910. Trained under his father, the late Mr. John Hughes, he went to India in 1862, and during a career of 34 years in the Public Works Department, he filled important administrative offices, and will be especially remembered in connection with the great engineering works for the drainage and water-supply of Calcutta, Allahabad, Cawnpore and other cities.

Mr. Hughes was elected a Member of The Institution on the 6th December, 1881.

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HENRY JOLL, born at Stoke, Devonport, on the 4th January, 1845, died at Plymouth on the 15th April, 1910. He joined the Public Works service of India in 1867, and after a varied experience of 25 years on roads, bridges, canals and other works, he retired with the rank of superintending engineer in March, 1892, on account of failing health. Mr. Joll was elected an Associate of The Institution on the 1st March, 1870, and was transferred to the class of Members on the 27th March, 1877.

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JAMES CHATBURN MADELEY, born at Moss-side, near Manchester, on the 17th November, 1840, died at Guildford on the 29th January, 1910. He served his pupilage to the late Sir James Brunlees, Past-President, who later sent him out to Brazil as an assistant engineer, under Mr. D. M. Fox, on the construction