

termini in South Wales. He was also employed in various surveys of mineral and other property, was frequently called in to settle disputes in matters relating to his profession, and was mineral surveyor to many large coal-owners and colliery firms in the district, for which his knowledge of the South Wales coalfield eminently fitted him. He was an expert draughtsman, and was noted for the accuracy and neatness of his plans, while his reports and evidence were arranged in a masterly manner. He was elected an Associate of the Institution on the 20th of May, 1873, and he died on the 28th of April, 1877.

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THE RIGHT HON. THOMAS JOHN HAMILTON FITZMAURICE, EARL OF ORKNEY, Viscount Kirkwall, and Baron Dechmont, Co. Linlithgow, in the peerage of Scotland, was born on the 18th of August, 1803, and he died on the 16th of May, 1877. He was elected an Associate of the Institution on the 14th of May, 1839, "Because of his intimate acquaintance with machinery, and his being a great encourager of the mechanical arts generally."

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MR. ALEXANDER RHODES was born in India about the year 1836. He served his pupilage in the engineering department of the Madras Railway Company, under Mr. G. B. Bruce, M. Inst. C.E. While there he manifested a peculiar aptitude for figures, and was found to be extremely useful in the preparation of estimates, as well as in the various calculations usual in an engineer's office; and he subsequently published a book of earthwork tables. On the completion of his articles Mr. Rhodes became an Assistant Engineer on the Madras railway, where he remained until the year 1858, when he entered upon similar duties in connection with the Great Southern of India railway. In 1868 he left the Great Southern Company and was employed for two years on surveys and other works for the governments of Madras and of Travancore, but in 1870 rejoined the railway staff, and was engaged at Trichinopoly until July 1873, when he became an Assistant Engineer, 1st grade, in the Public Works Department of the Government of India, in whose service he remained until his death at the end of 1876.

Mr. Rhodes was elected an Associate of the Institution on the 6th of December, 1870.