

and Mr. Chandos-Pole, his judgment and impartiality were prominently marked in the important negotiations which frequently took place between those gentlemen and their lessees. Mr. Hewitt was also engaged in several engineering arbitrations in connection with the Wakefield Corporation Waterworks and the Harecastle Tunnel, and acted as Mining Engineer to the North Staffordshire Railway Company and to the Val de Travers Asphalt Works in Switzerland.

Mr. Hewitt died at Alvaston, near Derby, on the 27th of March, 1893, at the comparatively early age of fifty-one. His ability as an Engineer and strict impartiality of character have already been indicated. In disposition he was kind and generous, ever ready to give a helping hand to those in distress. He was a Fellow of the Geological Society, a member of the Alvaston and Boulton Local Board of Health and Chairman of the Alvaston School Board. Mr. Hewitt was elected a Member of the Institution on the 4th of December, 1888.

JOHN MACKINLAY, born on the 10th of July, 1823, was the son of Mr. James Mackinlay, who for many years was employed in the works of Messrs. G. and J. Rennie, Holland Street, Blackfriars Road. In due time the youth—in accordance with a practice then prevalent of admitting without premium the eldest sons of old employees—served a regular apprenticeship to that firm. So well did he satisfy the Messrs. Rennie that in 1841 he was appointed on their recommendation a Junior Engineer in the Indian Navy, under covenant. On arriving in Bombay he was attached to the Dockyard, in charge of the pattern or model department, and some eighteen months later was transferred to the Steam Factory to assist in fitting it up. In 1843 he was promoted to 2nd-grade and assisted in fitting out the first expedition to China. Shortly after the capture of Sindh in the following year he was posted to the Indus, where he was occupied in conveying troops and stores up and down the river. He also served on the staff of the flotilla on shore, keeping the vessels in repair and in readiness for any emergency; and during the first Sikh war went up the river as assistant to the Engineer in charge of the floating factory. On the declaration of peace he returned to headquarters and in July, 1847, was promoted to 1st-grade for meritorious service. In the following year an attack of brain fever compelled him to return to England on furlough.

After an absence of eleven months Mr. Mackinlay was again attached to the Steam Factory at Bombay and in January, 1849, was placed in charge of the Upper Turnery and Pattern Department, his duties including the instruction of the numerous apprentices, European and native, being brought up for the public service. He remained in charge of that Department until August, 1857, when he was appointed to the more responsible post of Assistant to the Chief Engineer and Inspector of Machinery, to which office he succeeded in February, 1862. On the abolition of the Indian Navy in the following year, the works at the Dockyard of Bombay were increased, and were still further augmented by the introduction of the Overland Transport Service and by the calling at Bombay, for repairs, of British war-ships on the East Indian station. As far as the machinery was concerned these extra duties devolved upon Mr. Mackinlay, without additional remuneration of any kind. In 1864 he was appointed Engineer Surveyor to the Port of Bombay, which office he was able, by working early and late, to hold without resigning the post of Chief Engineer and Inspector of Machinery. These duties however proved too onerous and in 1867 he was again compelled by ill health to take six months' leave of absence. He returned to Bombay in February, 1868, and resumed work, which at times was carried out under circumstances of great difficulty owing to the scarcity of European labour. Two years later however his health again broke down and in March, 1871, he was compelled to resign his appointments and proceed invalided to England.

Mr. Mackinlay passed the remainder of his life in comparative retirement and died in London on the 22nd of April, 1893. He was elected a Member of the Institution on the 3rd of December, 1867.

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PETER ROE BEDLINGTON, son of Mr. Richard Bedlington, Mining Engineer, of Aberdare, was born at Rhymney, Monmouthshire, on the 18th of April, 1856. After studying at Swansea Grammar School, he spent three years in the Engineering Department of University College, London. He then from 1875 to 1880 served articles to the Mining and Mechanical Engineers of the Powell-Duffryn Company, obtaining a certificate of competency as a colliery manager under the Coal Mines Regulation Act of 1872. For a few months in 1880 he acted as Manager of the Middle Duffryn Colliery, but was then obliged by ill health to abandon all work for a time.

Towards the end of the following year Mr. Bedlington went to