

JOHN HOWKINS was born in September, 1839, at Granton, where his father was acting as Resident Engineer on the harbour-works then under construction for the Duke of Buccleuch. The subject of this notice was educated in Edinburgh, and served a pupilage of 5 years to the late Mr. James Leslie, for whom he subsequently superintended the repair of a breach in the West Pier of Methill Harbour in Fifeshire. After spending a short time in the office of Messrs. M'Clean and Stileman, in Westminster, he was in 1862 appointed Resident Engineer by the Harbour Trustees of Stranraer to superintend the completion of a low-water steamboat-pier designed by Mr. Leslie for the accommodation of steamers engaged in the Irish trade. On the completion of this work in 1863, he returned to Messrs. M'Clean and Stileman's office, and at the end of that year was appointed Resident Engineer of the new bridge at Weybridge designed by that firm. The bridge was opened in 1865, when Mr. Howkins was transferred to the Furness and Midland Railway, and was engaged in surveying and setting out the section of that line between Wennington and Carnforth. In the following year, he succeeded Mr. Frank M'Clean as Resident Engineer on the Devonshire Dock works, then under construction by his firm at Barrow-in-Furness, and superintended these works until after the opening of the dock in 1867.

Mr. Howkins commenced private practice in Edinburgh in 1868, but having obtained the appointment of Engineer to the Hartlepool Port and Harbour Commissioners in 1870, he removed to Hartlepool, and for the next 7 years was employed in carrying out the improvements which the Commissioners had begun in 1869 from the designs of Mr. Thomas Dyke, who was then their Engineer. The principal undertakings were the extension of the breakwater and the removal of the bar at the entrance to the outer harbour of Hartlepool: the successful accomplishment of the latter led to the construction by the North Eastern Railway Company of the large docks and timber-ponds which now occupy the site of the Old Slake.

Mr. Howkins left Hartlepool in 1877 to become Engineer and General Superintendent of Granton Harbour, in succession to his father, a position which he retained until his death. He designed and carried out all the works connected with that harbour undertaken during his tenure of office, and was occasionally consulted in regard to similar works elsewhere, notably the improvement of the harbour of Scarborough carried out between the years 1878 and 1881. For many years his services were retained as Consulting Engineer to the Commissioners of the Port and Harbour

of Hartlepool. Mr. Howkins died at Granton on the 26th April, 1906, aged 66.

He was elected an Associate of the Institution on the 5th February, 1867, and was transferred to the class of Members on the 3rd December, 1872.

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GEORGE LEWIS, born at Coleorton, Leicestershire, on the 7th April, 1836, was trained under Mr. J. C. Bailey, of Wigan, in the mining branch of the profession, to which his career was subsequently devoted. Between 1861 and 1866 he was Manager of the Coleorton and Swannington Collieries, Leicestershire, where he sank two shafts, put down winding-plant, erected the necessary machinery and constructed sidings and branch lines. Shortly after the latter date, Mr. Lewis engaged in independent practice as a mining engineer, and in course of time, became associated with most of the principal collieries and coal-fields of the Midlands, as well as with gypsum and ironstone mines in that district. He was retained as Engineer to the Donisthorpe, Coleorton, Wollaton, Manners, South Leicestershire, Ibstock, Whitewick and other collieries, representing an aggregate annual output of nearly a million tons. From Coleorton he transferred his headquarters to Derby, where he continued to practise until his death, which took place at his residence, Green Hill, Derby, on the 9th November, 1905. Mr. Lewis was a Fellow of the Geological Society and a Member of the Institution of Mining Engineers, of which he was President in 1893. He was also for some years a member of council of the Mining Association of Great Britain.

He was elected a Member of this Institution on the 3rd February, 1885.

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WILLIAM McLANDSBOROUGH, born on the 14th April, 1829, at Otley, Yorkshire, was trained for the engineering profession under his father, the late Mr. John McLandsborough, and subsequently acted as Resident Engineer on various water-supply, drainage and sewerage works carried out under the direction of Sir Robert Rawlinson, Past-President, and other prominent engineers. Between 1861 and 1864 he occupied the position of Engineer to the City of Gloucester, and in the latter year he was appointed Engineer and Manager of the Cheltenham Waterworks, subsequently becoming Waterworks Engineer to the borough on the transfer of the water