

time in 1863, when in conjunction with Mr. T. J. Taylor, Mr. I. L. Bell, Dr. Richardson, and others, he presented a Paper on the various industrial pursuits of the northern counties. Soon after his health failed and prevented him taking an active part in business, and he died in London, whither he had resorted for medical advice, on the 19th of December, 1865. Mr. Wood was of commanding height, portly form, and had a ruddy, good-humoured countenance, which bore no traces of the hard work he got through. He was an old Member of the Institution, having been elected on the 12th of May, 1829. Mr. Wood married Miss Lindsay of Alnwick, whom he survived some years, and by whom he left four sons and three daughters.

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MR. WILLIAM THOMAS BLACKLOCK, son of John Blacklock, calico-printer, of Kersal, was born in July, 1815. At the age of fourteen he was apprenticed to the late Mr. George Bradshaw, of Manchester, engraver and letterpress-printer, to learn the art of engraving. Before he had completed his apprenticeship he was offered a share in the business by Mr. Bradshaw, and from that period, about forty years ago, the well-known firm of Bradshaw and Blacklock dates its existence, Taking advantage of the opportunity offered by the introduction and extension of the railway system, they laid themselves out for and secured so much of the work required by the railway companies as to become popularly known as the railway printers. The merits of their "Railway Guide and Shareholder's Manual" are so well known to the members of the engineering profession, that no mention need here be made of the labour and exactitude with which it has always been prepared. In 1850 Mr. Blacklock was elected a director of the East Lancashire Railway Company, and in 1859, on the amalgamation of that company with the Lancashire and Yorkshire, a director of the latter, at the board of which he held a seat until his death. Upon assuming the responsibilities connected with an efficient discharge of his duties as a railway director, he retired from the firm in which he was the active partner, but soon after, finding that his energy demanded further occupation, he entered into partnership with Mr. George M'Corquodale, of Newton-le-Willows. He was also a county magistrate, a borough magistrate, a commissioner of taxes, treasurer to the Manchester and Salford branch of the British and Foreign Bible Society, treasurer to the Religious Tract Society, trustee of several churches, savings' banks, &c., and energetically exerted himself in the advancement

of the education and social condition of the working classes. His death was very sudden, he being seized with apoplexy on the occasion of his youngest daughter's marriage, on the 29th of June, 1870. Mr. Blacklock was twice married, on the second occasion to Miss Lord, of Farnworth, by whom he left two sons and two daughters. He was elected an Associate of the Institution on the 7th of April, 1868.

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MR. LIDDLE ELLIOT was born on the 16th of October, 1807, at Trentham in Staffordshire. He was brought up as a land surveyor and articed to a Mr. Slater, who had been sent by Mr. Telford to improve the turnpike roads of North Staffordshire. On the death of that gentleman, Mr. Elliot succeeded him in this occupation and carried out many new roads besides. He was also engaged by the late Mr. Sneyd of Keele Hall in improving the roads on his estates; and gave assistance to several engineers in selecting and surveying lines for railways in Staffordshire. About the year 1845 the attention of the leading manufacturers in the Staffordshire potteries was drawn to the very inadequate supply of water, chiefly owing to mining operations draining the springs. Mr. Elliot was employed in conjunction with the late Mr. James Simpson, Past President Inst. C.E., to survey the country, and succeeded in finding an abundant supply of pure spring water at Wall Grange, near Leek, on the estate of the Duke of Sutherland, whose confidence he largely enjoyed. A company was formed, Mr. Elliot was appointed engineer, and successfully carried out the works for conveying the water a distance of 10 miles, to supply a population of about a hundred thousand inhabitants; and the Staffordshire potteries now enjoy an excellent supply of spring water. He joined the Institution as an Associate on the 3rd of December, 1850, and died on the 1st of March, 1869, at Newcastle-under-Lyne, of which place he was mayor in 1846, greatly regretted by a large circle of friends, and leaving behind him a numerous family.

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MR. ALISTER FRASER was a descendant of an old Inverness-shire family, and was born at Culduthel House, in that county, on the 6th of September, 1829. He was educated, first, at a private school at Elgin, then at the Inverness Royal Academy, and finally at King's College, Aberdeen. In the year 1846 he entered the office of Mr. J. Abernethy, M. Inst. C.E., who was then engaged in the construction of the Aberdeen harbour works, and on the