

ALFRED MOORE, born in 1826, obtained his engineering training under the late Mr. J. F. La Trobe Bateman, Past-President, and on completing his pupilage, continued in that gentleman's service as an Assistant on the Manchester, Warrington, and other waterworks. Between 1856 and 1870 he acted as Resident Engineer on the Loch Katrine Works for the water-supply of Glasgow and on the Belfast Water-works, and in the latter year he went to Buenos Ayres to represent Mr. Bateman in connection with the important works for the water-supply and drainage of that city. While there he also constructed the Catalinas Mole. These works occupied him in South America for several years, and on his return to England he carried out extensions of the water-supply of Warrington. Subsequently he was engaged in the preparation of designs in connection with the Thirlmere scheme for the supply of water to Manchester, under Mr. G. H. Hill, and other works of a similar character. With Mr. Moore originated the device known as Bateman and Moore's firecock, which has been adopted in many large cities and towns. Mr. Moore's career was thus wholly devoted to the hydraulic branch of the profession. Possessed of undoubted abilities, to which his retiring disposition did less than justice, he was an indefatigable worker, and continued to display a keen interest in everything appertaining to hydraulic science up to the close of his career. He died suddenly at his residence, Holmleigh, Alderly Edge, on the 17th July, 1904, in his seventy-eighth year.

Mr. Moore was elected a Member of the Institution on the 15th May, 1866.

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JOHN ARTHUR THORNTON was born on the 24th November, 1865, and after completing his studies at the Owens College, Manchester, served a pupilage under the late Mr. William Hunt, then Chief Engineer of the Lancashire and Yorkshire Railway, at the expiration of which he was employed on the new stations at Halifax and Bradford, under Mr. W. C. Hall, and in connection with various widening and other works on the same system. In 1892 he obtained an appointment as chief assistant for new works to Mr. H. Copperthwaite, on the southern division of the North Eastern Railway, acting as Resident Engineer on the works carried out at Hull, Bridlington, Leeds and other places on the