

ill-health, re-entering the South Australian service as assistant-surveyor and draughtsman. Mr. Smeaton was elected an Associate Member of The Institution on the 5th December, 1893.

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MAJOR JOHN FREDERICK ADOLPHUS McNAIR, C.M.G., R.A., born at Bath on the 23rd October, 1828, died at Brighton on the 17th May, 1910. Obtaining his commission in 1845, he became in 1856 staff officer in the Straits Settlements. Subsequently he was appointed Comptroller of Indian convicts and Surveyor-General to the Colony, in which capacity he carried out important public works in Singapore. During the disturbances of 1875-1876 he was Special Commissioner to Perak, receiving the medal with clasp, and later he took part in special missions to Siam and officiated for some years as Lieutenant-Governor of Penang. He was elected an Associate of The Institution of the 3rd December, 1872.

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SIR FREDERICK THORPE MAPPIN, BART., born in 1821, died at Sheffield on the 19th March, 1910, in his ninetieth year. Entering his father's cutlery business at a very early age, he became one of Sheffield's most prominent cutlers and steel manufacturers, being elected Master Cutler in 1855. He sat for the Hallamshire division in the Liberal interest for 20 years, and he also took an active part in the public life of Sheffield, especially in connection with technical and higher education, as well as in the direction of various important business undertakings.

Sir Frederick Mappin was elected an Associate of The Institution on the 7th February, 1865.

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JOHN WADDINGTON died on the 9th July, 1910, at Lancing, Sussex, in his 89th year. Trained in the locomotive department of the Hull and Selby Railway, he afterwards joined the firm of Bray, Waddington and Company, manufacturing engineers, of Leeds, who constructed the ironwork for Victoria Bridge, the first railway bridge over the Thames at London, in 1859. Mr. Waddington had been a very active worker in an engineering business in London since 1866, along with his sons. He was elected an Associate of The Institution on the 2nd December, 1862.

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