

MEMOIRS.

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EDWARD CHARLES CRACKNELL was born at Rochester, England, in the year 1831; he was educated at Oxford, and in 1848 proceeded to London, where he devoted himself to scientific pursuits. In November, 1855, in company with Mr. Todd, Chief of the South Australian Post and Telegraph Department, he came to Adelaide and was appointed Assistant Superintendent of Telegraphs, which position he retained until the year 1857, when he came to Sydney, and in January, 1858, he was appointed Assistant Superintendent of Telegraphs for New South Wales, and in the same month opened the line of telegraph from Sydney to Liverpool, a distance of 22 miles, and was the third line erected in New South Wales. On the retirement of Captain Martindale, the superintendent, in 1861, Mr. Cracknell was appointed to the vacancy, and the great developments of the New South Wales telegraph under his management are instanced in the fact that at the present time there are 22,000 miles of line in operation, together with 600 telegraph and telephone stations all equipped in the most modern style. In 1876 he visited England, and made himself acquainted with the latest developments in electrical science, and more especially in its relation to torpedo work. In 1885 he represented New South Wales at the Berlin Postal Conference. To the deceased gentleman also belongs the honour of having introduced the duplex and quadruplex systems throughout Australia. He died, after a short illness, on the 14th January, 1893. He became a member of this Association in 1879.

**J**AMES GRANT was born at Pyrmont, Sydney, on the 28th June, 1860, and served his apprenticeship to the engineering at the works of Mort's Dock and Engineering Company, Ltd., Balmain, and remained with the same firm for some years after having completed his time, and then joined the Australian Steam Navigation Company as a sea-going Engineer. Having obtained his chief's certificate, he proceeded to England in order to gain further experience. On his return, he joined his father and brother in business. He died on the 8th August, 1893. He became a member of this Association in 1883.

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**H**ENRY ERNEST HUDSON was born in Sydney in 1866, and was educated at Hurstville College, Goulburn, after which he served his time at the works of Messrs. Hudson Bros., Ltd., Granville. To gain further experience he then left Sydney for England and America, where in some of the leading shops he devoted a considerable amount of time to the careful study of labor-saving appliances in connection with locomotive construction, and on his return in 1891 he was appointed assistant works manager to the Clyde Engineering Works. He died 12th October, 1893, of consumption, after a long illness. He was elected a member of this Association in 1892.