

ROBERT STEWART OLIVER, son of Mr. Andrew Oliver, a well-known agriculturist in Stratherrick in his time, was born on the 8th July, 1849. The subject of this notice served an apprenticeship of four years with Mr. William Paterson, engineer and land surveyor, of Inverness. In 1871 he entered the service of the Highland Railway Company, in which he was engaged during the greater part of his life. Under the late Mr. Murdoch Paterson he was employed on the surveys for the Sutherland and Caithness Railway, and acted as Resident Engineer on the construction of that line. He also acted in a similar capacity on the Inverness Waterworks, and surveyed and carried out the Dingwall Waterworks, Caithness Quarry and Dalmore Tramway, and various other works. He remained in the service of the Highland Railway Company until the completion of the Aviemore line, in the carrying out of which important undertaking he had a large share. Mr. Oliver had a happy gift of imparting knowledge to young men, and thus rendered service to many engineers who have since attained some eminence in the profession.

In 1899 Mr. Oliver purchased the estate of Raddery in the Black Isle district of Ross-shire, and was engaged at the time of his death, which took place at 19 Ness Bank, Inverness, on the 14th September, 1900, in effecting extensive improvements on that property, including the building of a new dwelling-house.

Mr. Oliver was elected an Associate Member of the Institution on the 6th December, 1881.

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THOMAS ELLIS OWEN, born on the 31st December, 1841, was the son of the Rev. J. Owen, Rector of Llaniestyn and Honorary Canon of Bangor. The subject of this notice was appointed to the Public Works Department of the Government of India in 1861, being posted to the Allahabad Division, where he was engaged for some years on important works. In 1867 he was promoted to the rank of Executive Engineer, and in April, 1873, he obtained two years' furlough. On his return in 1875 he was posted to the Northern Bengal State Railway, and for the last five months of that year he officiated as Superintendent of Works of the Nattore Division. He then held charge of various divisions until December, 1878, when he was placed in charge of the office of Superintendent of Works, Northern Bengal Railway. From the beginning of

1880 until March, 1881, he was engaged on special duty in the Julpigoree Division. His services were then placed at the disposal of the Commissioner of the Bhagulpore Division, and he was appointed Divisional Superintendent of District Works. In July, 1886, he was appointed Engineer-in-Chief of the Benares, Cuttack, Poorie Railway surveys, with the rank of Officiating Superintending Engineer, and in December of the same year he was placed in charge of the 7th Division of the Toungoo-Mandalay State Railway. After serving for a time as Officiating Under-Secretary to the Government of Bengal in the Railway Branch of the Public Works Department, he retired in 1888, and settled in Bedford, where he died on the 5th June, 1900.

Mr. Owen was elected an Associate of the Institution on the 14th January, 1868, and was subsequently placed in the class of Associate Members.

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WILLIAM WARREN SMITH, eldest son of the late Mr. William Warren Smith, of Garston Park, Godstone, Surrey, was born on the 23rd June, 1869. In June, 1888, he was articled to Messrs. James Simpson and Company, of Grosvenor Road, London, and on the expiration of his pupillage remained with that firm as an assistant. In April, 1895, he sailed for Western Australia, where he was engaged in mechanical and mining work until 1897, when he returned to England. His health not being good, he then spent some time in travelling in Spain and Portugal, and in November, 1899, he went to South Africa, and in the following January joined Roberts' Horse. After taking part in the relief of Kimberley, he died at Orange River on the 17th March, 1900.

Mr. Smith was elected an Associate Member of the Institution on the 3rd December, 1895.

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ALEXANDER STEWART, born on the 10th August, 1866, received his first engineering training in the office of Mr. W. G. Lamond, of Arbroath. He then served a pupillage of four years to Mr. Alexander McCulloch, of Dundee, subsequently remaining with that gentleman as an Assistant until the end of 1885, engaged chiefly on water, sewerage, and other municipal works. In March, 1886, he was appointed an Assistant to Mr. John Cooper, Burgh