

of the São Paulo Railway, where he was engaged on the famous inclined planes at the Serra do Mar, and remained until the opening of the line in February, 1867. He was then employed as Engineer on the survey and construction of a projected interoceanic railway in Spanish Honduras, subsequently abandoned for lack of funds, and Engineer and Superintendent of the Portalegre and New Hamburg Railway, Brazil. Resigning this appointment in 1885, he returned to England and afterwards travelled abroad. After fulfilling an engagement as Engineer to the Lake Copais Drainage Company, he in 1892 rejoined the staff of the São Paulo Railway as Engineer and Locomotive Superintendent to the Company, carrying out many important improvements and extensions. He retired in 1897, and spent his remaining years in England. Mr. Madeley was an engineer of considerable experience and ability, very painstaking in all he undertook, thoroughly reliable and high principled, and devoted to his profession. He was elected an Associate of The Institution on the 6th December, 1870, and was transferred to the class of Members on the 19th February, 1878.

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WILLIAM METCALF was born on the 3rd September, 1838, at Pittsburgh, Pennsylvania, where he died on the 5th December, 1909. He was engaged all his life in the manufacture of iron and steel, formerly with the Fort Pitt Foundry and the Crescent Steel Company, and for the past 12 years as President of the Braeburn Steel Company. He was a Past-President of the American Society of Civil Engineers. Mr. Metcalf was elected a Member of The Institution on the 3rd March, 1896.

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EVELYN FRANCIS SANDERS, B.A.I. (*Dubl.*), born on the 12th July, 1864, died at West Hill, Titchfield, on the 31st December, 1909. In 1887 he went out to India as assistant engineer on the construction of the Bengal-Nagpur Railway, becoming successively District, and Superintending Engineer, and in 1904, Chief Engineer of the system. Mr. Sanders was elected an Associate Member of The Institution on the 3rd February, 1891, and was transferred to the class of Members on the 31st December, 1909.

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