

DOUGLAS AUSTHWAITE STANLEY, son of Mr. Edward Stanley, of Ponsonby Hall, Cumberland, for many years M.P. for West Cumberland, was born on the 24th of September, 1838. After serving in the Royal Navy as a midshipman, he was articled in 1859 to the late Mr. John Trevor Barkley, Civil Engineer, and was subsequently employed from 1862 to 1864 on the survey and construction of the Danube and Black Sea Railway and Harbour under that gentleman. From 1864 to 1866 he was engaged on the Varna and Rustchuk Railway, under Mr. William McCandlish, and was then for three years in charge of works on the Giurgevo and Bucharest Railway for Messrs. Brassey, Peto and Co. He was next employed from 1869 to 1871 on the maintenance of the Varna Railway, under the Varna Railway Company, and in 1871 and 1872 on the survey of the western division of the Honduras Railway for Messrs. Waring and Co.

From 1872 to 1876 Mr. Stanley practised on his own account in England, and was afterwards for three years in charge of the survey and construction of the Evesham, Redditch and Stratford-on-Avon Railway, under Mr. Liddell. He was subsequently employed from 1880 to 1884 on the construction of the Minas and Rio Railway for Messrs. Waring and Co., and from 1884 to the date of his death he practised on his own account. During that period he was constantly on the move, visiting Russia, Spain, Portugal, Turkey, Mexico, the United States, Brazil, Egypt, Roumania and South Africa, for the purpose of reporting upon almost every class of engineering undertaking. Mr. Stanley was socially a most agreeable companion and a good sportsman, a man of considerable character, activity and perseverance, most conscientious in the execution of his duties, and highly respected and esteemed by all who knew him. He died at Monte Carlo from the effects of a chill on the 2nd of March, 1896, after a few hours' illness. He was elected a Member on the 1st of December, 1891.

CHARLES COLES ADLEY, second son of the Rev. W. Adley, for thirty-four years Rector of Rudbaxton, Pembrokeshire, was born on the 10th of September, 1828. After being educated at King William's College in the Isle of Man, he was apprenticed to Mr. Edward Highton,¹ Telegraph Engineer to the London and

¹ Minutes of Proceedings Inst. C.E., vol. xix. p. 188.

North Western Railway Company, by whom he was before the expiration of two years appointed a salaried assistant. Having been offered by the Government of India the post of Assistant to Sir William O'Shaughnessy, Director of Telegraphs in India, he left England in 1853. On the voyage out, however, circumstances occurred which induced him to resign the post, and on arriving in India he entered the service of the East Indian Railway Company. After acting for eighteen months as an Assistant Engineer on the Burdwan division, and for a year as Resident Engineer on the construction of the Raniganj division, he was appointed Superintendent of the Telegraph Department of the line.

In 1858 Mr. Adley, in addition to his ordinary duties, founded the *Engineers' Journal and Railway and Public Works Chronicle of India and the Colonies*,¹ published at Calcutta, of which he was the proprietor and editor. He resigned his post on the East Indian Railway in 1862 and returned to England, where he lived for a time on a moderate competency. After the death of his wife, however, Mr. Adley entered in 1868 the service of the Public Works Department of the Government of India. His first duty was the design of the Small Arms Factory at Dum-Dum, in the province of Bengal, and he was highly commended by the Government for the completeness and rapidity of execution of that work. He was then engaged in designing drainage and irrigation works for the improvement of the famine and fever-stricken districts near the banks of the Hooghly. This duty he carried out with such energy that his health suffered materially, and he found himself compelled to resign the service. Mr. Adley then devoted his attention chiefly to mining engineering, and became connected with the Nerbudda Coal and Iron Company and other similar undertakings in India. In consequence, however, of ill-health—he suffered from chronic asthma, the origin of which he attributed to employment in the marshy districts of Bengal—he retired from active work and returned to England in 1873.

Mr. Adley died at Bath on the 11th of April, 1896, in the sixty-eighth year of his age. Up to the last he was a constant contributor to periodical literature on a variety of subjects. He found his favourite recreation in field sports. In disposition he was quiet and unobtrusive. Mr. Adley was elected an Associate on the 1st of April, 1862, and was subsequently placed in the class of Associate Member. In 1852 he had contributed to the Institu-

¹ This journal is in the Library of the Institution.

tion a Paper entitled, "The Electric Telegraph; its History, Theory, and Practical Applications."¹ He was also the author of several pamphlets on telegraphy and other subjects, some of which may be found in the Library.

JAMES SMYTH BENEST, born at St. Helier's, Jersey, on the 26th of March, 1826, was the son of Mr. John Benest. In 1845 he entered the office of Messrs. J. C. Sherrard and Sydney Hall,² in Westminster, for whom he was extensively engaged on railway surveys. He then acted as an assistant, under Mr. Joseph Cubitt,³ on the construction of the Great Northern Railway until 1849, when he obtained an appointment on the staff of the Metropolitan Commission of Sewers. He resigned that post, however, in 1859, to become Borough Engineer of Merthyr Tydfil, where during the next four years he laid out a scheme of drainage, a portion of which he carried out. In 1861 Mr. Benest began to practise on his own account, and in 1865 he was appointed Surveyor to the Commissioners of the River Wensum, at Norwich, which post he held for seven years.

In April, 1872, Mr. Benest proceeded to Rio de Janeiro as Resident Engineer in succession to his brother Edward, on the important drainage works of the Rio Improvements Company. That appointment he resigned in February, 1884, and returned to Norwich, where he remained until his death, from congestion of the lungs, on the 29th of February, 1896. His only engineering work after his return from Rio was at La Palisse (La Rochelle), where he went at the instance of the contractor for the docks then in course of construction, which were opened by President Carnot.⁴

Mr. Benest had considerable skill as an architect and after his retirement gave his services in connection with several works, among which may be mentioned the restoration of Bodham Church, Norfolk, reopened in December, 1892, and the rebuilding of the parish schools at Southwold. His last work was a design for a memorial altar for Holy Trinity Church, Marylebone. His tastes were intellectual and his character was gentle and upright. Mr. Benest was elected an Associate on the 9th of April, 1872, and was subsequently placed among the Associate Members.

¹ Minutes of Proceedings Inst. C.E., vol. xi. p. 299.

² *Ibid.*, vol. lxxix. p. 366.

³ *Ibid.*, vol. xxxix. p. 248.

⁴ *Ibid.*, vol. cxvii. p. 360.
