

Mr. Chester was President of the Gas Institute in 1896 and of the Manchester District Institution of Gas Engineers in 1893, to both of which he contributed several Papers. To the Engineering Congress at Glasgow in 1901 he gave an account of the mechanical transport of materials in gasworks. Mr. Chester died in London on the 24th May, 1902.

He was elected a Member of the Institution on the 4th December, 1894.

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CARTER DRAPER was born at Hereford on the 28th February, 1845, of English parents. Two years later he went with them to reside in Dublin. When 18 years of age he entered Trinity College, Dublin, his tutor being Dr. Salmon, the present Provost. He graduated in 1867 with the special certificates of the Engineering School of that College in the separate branches of engineering, practical mechanics and physics. On leaving college he became a pupil of the firm of Messrs. Courtney, Stephens and Bailey, mechanical engineers, of Dublin, and was subsequently employed on various important works executed by Messrs. Bewley, Webb and Company, and by Messrs. Ross, Stephens and Walpole. He then turned his attention to railway work, and acted for three years as an Assistant Engineer to the Great Southern and Western Railway of Ireland, being employed on work connected with the North Wall Extension of that line.

In the year 1878, having obtained the first place in open competitive examination, Mr. Draper was appointed County Surveyor for the Western Division of Galway, and being transferred in 1882 to Co. Wicklow, served the Government in that capacity until his death. The post of County Surveyor in Ireland is one which, besides demanding ability as an engineer, requires considerable capacity for organization, the surveyor being responsible for the design and carrying out of all works executed by the county, and for the efficiency and maintenance of all court-houses, county roads and bridges within its bounds.

In his private capacity Mr. Draper had charge of several important works, and shortly before his death designed the drainage systems of Delgany and Greystones, the latter a rising watering-place about 15 miles south of the city of Dublin. A keen lover of the profession, he gave close attention to the smallest details of every work which he undertook. He was unflagging in his attention to duty, and was held, professionally, as well as personally, in great esteem throughout Co. Wicklow. By his

death, which took place on the 7th December, 1902, Ireland lost one of her most capable and faithful officials.

Mr. Draper was elected a Member of the Institution on the 29th May, 1883.

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CHARLES GANDON, born on the 13th June, 1837, began his engineering career as a pupil of Mr. Henry Palfrey Stephenson, under whom he was subsequently engaged on railway works and on the construction of gasworks in Germany. From 1861 to 1863 he was an Assistant Engineer on the Great Northern Railway, and in the latter year he was appointed Engineer and Manager at Smyrna to the Ottoman Gas Company. There he not only superintended the erection of the gasworks, but conferred lasting benefit on the town by tapping an excellent supply of water. His good work in Smyrna earned for him the confidence of the Company, and when he finally settled in England he was elected a member of the Board of Directors. In 1869, Mr. Gandon left Smyrna to take up the post of Engineer and Manager of the Bombay Gasworks, where he remained until 1872, when he was appointed to the charge of the Pará Gasworks, Brazil.

In 1876 Mr. Gandon returned to England as Engineer to the Crystal Palace District Gas Company, which post he held for twenty-one years, and during that period the works of the Company increased greatly in importance. After his retirement in 1897 he undertook no professional work, although he remained on the Boards of the Ottoman and the Bombay Gas Companies and the Woking Water and Gas Company. He died at his residence, The Woodlands, Tressillian Crescent, Brockley, on the 8th October, 1902.

Mr. Gandon was a Member of the Society of Engineers and of the Gas Institute, on which bodies he served the office of President in 1885 and 1888 respectively.

He was elected an Associate of the Institution on the 3rd December, 1867, was subsequently placed among the Associate Members, and was transferred to the class of Members on the 31st May, 1881.

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EDMUND PHILLIPS HANNAFORD, who for a brief period represented the Canadian Dominion on the Council of the Institution, died at Montreal on the 18th August, 1902.

Born at Stoke Gabriel, Devonshire, on the 12th December, 1834.