

position which he held with great credit until the year 1864, when he lost his life by a melancholy accident. He had gone to the brewery of Mr. Evans, Cowley Road, Oxford, on the afternoon of Tuesday, the 24th April, 1864, to give some instructions relative to the water-pipes, when, whilst walking on a stage above the vats, he stepped aside to allow one of the workmen to pass, and fell into a vat of boiling liquid; he was speedily rescued from the dreadful position, and was removed to the Radcliffe Infirmary, where, in spite of the skilful attention of the medical officers, he was released from his severe sufferings early in the morning of Wednesday, the 25th April, 1864, in the 74th year of his age. At the investigation into the cause of the accident, very high testimony was borne by the authorities of the city of Oxford as to the value of the services rendered by Mr. Jones, and to the general estimation in which he was held by all who knew him. He possessed more than a common share of ingenuity and experience as a mechanic, and his memory was so tenacious that he was a walking encyclopædia of inventions and experiments. He was a strictly conscientious man; industrious, careful, and upright in all his dealings; and in his position few men have laboured more strenuously and consistently for the benefit of the profession to which he was devotedly attached.

About the year 1817, James Jones was taken into the counsels of Henry Robinson Palmer and Joshua Field, relative to the formation of a small mutual improvement society, to be composed of a few young Engineers. To them were soon added William Maudslay, Charles Collinge, and James Ashwell, and the first meetings were held in a small room in the Strand, James Jones acting as secretary and treasurer, to which combined posts he was formally elected on the 6th of January, 1818, the six founders of the Society having previously constituted themselves Members on the 2nd of that month. Thus was established the Institution of Civil Engineers, speedily countenanced by Telford; and, by the energy of its founders, supported, under many difficulties, until it obtained a Royal Charter, and eventually attained its present important position in the scientific world. It may be imagined with what pleasure Mr. James Jones watched the progress of a Society, to the formation of which he had contributed such efficient aid, and that this feeling was reciprocated by the Members, was shown by the unanimous resolution of the Council to erect a tablet to the memory of their first Treasurer and Honorary Secretary.

---

MR. EDWARD OLIVER MANBY, the fourth son of the late Mr. Aaron Manby (M. Inst. C.E.), was born at Horseley,

Tipton, on the 17th of June, 1816. At the age of four years he went to France with his father's family, and received his education at the Collège Massin, Paris, completing it at the University of Ghent, Belgium, where at the early age of sixteen he took high mathematical honours at the examination. He was then sent to England, and became the pupil of his elder brother, Mr. Charles Manby (M. Inst. C.E.), by whom he was eventually placed in the Ebbw Vale Iron Works, at that time the property of Messrs. Harford, Davis, and Co. He there acquired a very good practical knowledge of iron making, in which he was greatly assisted by his chemical acquirements. At that time attention was directed to the introduction of anthracite as a fuel for smelting, and Mr. Crane, of Ynischedwyn, near Swansea, engaged the services of Mr. E. O. Manby for the construction of the furnaces, and for the preliminary investigations and experiments, which were very successful. This made him so well known in that part of South Wales, that he was induced to establish himself as an Engineer at Swansea, where he was joined by his elder brother, Mr. John Manby. Eventually they removed to London, and being employed on several investigations on the Continent, the brothers established themselves at Madrid, where they engaged largely in railways, irrigation canals, gas-works, iron-works, mines, &c., and for many years Mr. E. O. Manby pursued a very active professional career.

His health eventually broke down, and after a long and distressing illness, he died at Paris on the 21st of February, 1864, at the age of forty-eight years.

His talents were of a very high order; he was a fine, generous, high-spirited man, always pleased to do a kindness to any one, and ever careless of his individual interest. He was beloved by all who knew him, any faults he had were of the head and not of the heart, and few persons were more sincerely regretted by those who knew and duly appreciated him.

He joined the Institution of Civil Engineers as an Associate February 25th, 1840, was transferred to the class of Graduates January 19th, 1841, and to the rank of Member April 21st, 1846. In consequence of his almost constant residence on the Continent, he was not able to be a frequent attendant at the meetings, but he always took a strong interest in the proceedings, and he frequently aided other Members by giving them information on foreign works, which enabled some useful Papers to be contributed to the Institution.

---

MR. GEORGE MACKAY MILLER was born at Pentonville, on the 7th of December, 1813. After the usual course of school education, followed by attendance for a short time in the mathe-