

Railway, under Mr. Morgan B. Williams, M. Inst. C.E. He was then employed in building and managing the Bolderaa mechanical works and a flour-mill in the neighbourhood of Riga, after which he assisted in the survey of the Mohilev-Witepsk line. In 1868 Mr. Kleberg was appointed Chief Inspecting Engineer of rolling-stock and railway-material in England, Germany, and France, for several Russian railways, including the Riga-Mitau, the Moscow-Brest, and the Brest-Smolensk lines. The duties of this appointment brought Mr. Kleberg into contact with several well-known English firms, and he was subsequently induced to establish himself in London as a Consulting Engineer. After being so employed for ten years, he was compelled by, among other things, the increased duty imposed by the Russian Government on railway materials, to return to Russia. He took up his residence at St. Petersburg, where he continued to practice as a Consulting Engineer. He had not been there long before anxiety of mind and pecuniary difficulties, caused by the failure of certain business friends to justify the trust he had been led to place in them, told upon his health. Yet, in spite of many obstacles, Mr. Kleberg made his way, and gained some distinction not only as President of the Polytechnic Society of St. Petersburg, but also by a series of lectures he delivered as a member of the Société des Ingénieurs des Voies de Communications on "American systems of Canalization." Some time later he determined, on medical advice, to try the climate of South Russia, and accepted the post of Technical Director of the extensive Cement Works at Novorossisk in Caucassia. The change, however, had no permanent effect upon his failing health, and two years later he died suddenly and peacefully on the 12th of April (31st of March, O.S.), 1888, leaving a widow and one son.

Mr. Kleberg was elected an Associate of the Institution on the 14th of May, 1872, and in 1878, when it was decided to divide that class into two groups, he was placed among the Associate Members.

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BARROW TURNER, who was born on the 12th of March, 1850, was the eldest son of the late Mr. Thomas Turner, and great grandson of the late Mr. Barrow, founder of the firm of Barrow and Turner, Engineers, of East Street, Manchester Square. On the death of his father, young Turner, then only thirteen years of age, left school in order to learn the business of a Mechanical Engineer at the above works, of which in 1871 he became pro-

prietor, and to the management of which he devoted the remainder of his life. Among the engineering works which he designed and carried out, the steam lifting-machinery at the General Post Office and at several warehouses and offices in London deserves mention. The principle upon which those steam-hoists work is that of a continuous circuit, several trays ascending, passing over a wheel at the top, and then descending. The trays are so hung as to retain their horizontal position, so that passengers or goods may safely perform a complete circuit. Mr. Turner also provided, from his own designs, hydraulic lifting machinery for the King's Cross terminus of the Great Northern Railway, and was largely occupied in the construction and maintenance of engineering work in many of the government buildings and the Royal Parks of London, all of which was performed to the satisfaction of the authorities of H.M. Office of Works. The lease of his premises in East Street, Manchester Square, having expired, Mr. Turner, at the beginning of 1888, took an office in Victoria Street, Westminster, where only a few months later his death occurred suddenly on the 2nd of June.

Mr. Turner was naturally of a reserved disposition, and somewhat given to self-depreciation. He was, however, easily moved to sympathy, and always ready to help the afflicted and suffering. He was a staunch liberal, and for some years served as a member of the executive committee of the Kilburn Liberal Association. He was largely instrumental in establishing a Liberal Club at Kilburn in 1883, and devoted much time and energy to raising the necessary capital, besides giving professional assistance in the arrangement of the premises.

Mr. Turner was elected an Associate Member of the Institution on the 1st of April, 1879.

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THEOPHILUS GEORGE WIGHT was born in Demerara, British Guiana, on the 3rd of February, 1825. He was of Scottish descent, and was sent to his father's native country for his education. There he went through a regular course of mathematical instruction with Dr. Miller, the Rector of Perth Academy, and he further studied scientific subjects under the late Professor Runciman, the Rector of Dollar Academy, and at that time one of the most competent engineers in Scotland. He also took a course of Architecture under Professor Brown, of the same academy, and one of chemistry under the late Professor Hope, of Edinburgh.