

chief ports of the Colony. Mr. Low had superintendence of the defences for the port and town of Dunedin, and threw himself with characteristic energy and devotion into work of an unusually arduous nature, involving close personal supervision night and day at widely scattered points, in the depth of an inclement winter. His work won high commendation from both the civil and military engineers, but ruined his health, which never recovered from the severe strain. A trip to Australia did not produce the benefit expected, and he sailed for England in July, 1886, to try the effects of a long sea voyage, but died while in the tropics on the 12th of September. Mr. Low was well versed in, and was devoted to, his professional work, and was held in deservedly high estimation by the ministers and heads of the department to which he had given twelve years of able and faithful service, and to which his early death is a distinct loss. In private life the earnest and sterling qualities of his mind and character had won him universal esteem, and he will be missed in many circles of quiet usefulness.

Mr. Low was elected an Associate Member on the 2nd of February, 1886.

HENRY ROBERT HOWELLS MARTIN, eldest son of Mr. Henry Martin, Engineer to the Middlesex County Asylum at Hanwell, was born in 1852. He was educated at University and King's Colleges, London, and subsequently became an associate of the latter college. In 1869 he began a three years' pupilage with Messrs. George Waller and Co. of Southwark, London, during which time he had had experience in the design and manufacture; of machinery for gas-works, water-works, breweries, drainage, &c.; was then for nine months (1872) in the office of his father at Hanwell, whilst extensive buildings were in progress for brewery, gas-works, sanitary arrangements, warming and ventilating. In 1872 Mr. Martin became assistant to Mr. Robert Morland, manager of the Gloucester Gas-works, engaged in preparing drawings and specifications for new works capable of producing $2\frac{1}{2}$ million cubic feet of gas per diem; he was then for two years occupied in a similar position under Mr. Thornton Andrews, Assoc. Inst. C.E., at the Swansea Gas-works, during which time the works were entirely remodelled. In 1875 he was made Engineer and Manager of the Llanelly Gas-works, and during the time he held that position the works were doubled in extent. In January 1883 he obtained the appointment of Engineer to the Hong Kong and China Gas Company, which position he retained for several years. Mr.

Martin was elected an Associate of the Institution on the 4th of December, 1877, having previously been a Student, and was transferred to Associate Member on the creation of that class a year later. He died at Panama, on the 26th of May, 1887.

WILLIAM MILLAR, son of General Millar, R.A., was born at Woolwich on the 16th October, 1814. At the age of fifteen he became a pupil with Messrs. Maudslay and Field, and remained eight years with that firm.

In 1843 he accepted the post of Superintending-Engineer for the Russian Black Sea fleet and naval ports, to reside at Nicolaieff, which port became the chief seat of his long labours, with the exception of the period of the Crimean War, when he was sent to Moscow. Mr. Millar occupied this post twenty-five years, and was highly esteemed by all, from the highest to the lowest. In 1867 he was appointed by the Russian Government to be Chief-Engineer to a large rocket-factory which was then in course of erection. The machinery was all arranged and erected from his plans and under his supervision, and for the remaining twenty years of his life he was chiefly occupied with this work, frequently designing new machinery when he saw his way to making improvements.

He received several gold medals from the Russian Government, and was made a Knight of the Order of St. Stanislaus, receiving Queen Victoria's permission to wear the cross and ribbon of the order. He died at Odessa on the 21st August, 1887, after a long and painful illness, and, according to his frequently expressed desire, he was buried at Nicolaieff, in the tomb which contains the remains of his wife.

Mr. Millar was a man who cared little for the praise of those above him, but did his duty for duty's sake, with a single-mindedness seldom met with. He was elected an Associate of the Institution on the 29th of June, 1841, and though long qualified for Membership, elected to remain in the lower grade until 1878, when, the class being reorganised, he was made an Associate Member.

WEBSTER PAULSON was educated at the Grantham Grammar School, and was afterwards put for four years with Mr. T. Chapel, of the firm of Messrs. Cubitt, Gray's Inn Road, London, to learn