

tion were dividends which ultimately reached 66 per cent. per annum.

Mr. Thurston was much consulted by other Gas-Companies on the continent, and was employed to design and construct gasworks for many towns in Germany, Finland, and Poland. He was also Engineering Director of several gasworks. He invented improvements in apparatus for gas-purification, and in furnaces for utilizing coal-tar as a fuel for carbonizing coal, both of which were extensively adopted on the continent. He was one of the first to use hydraulic cranes for unloading steam-colliers. He continued to practise as a Consulting Engineer until the end of 1875, when he retired after forty-three years' hard work, and lived at Eimsbüttel, a suburb of Hamburg.

Mr. Thurston died on the 26th of May, 1885, leaving a widow and grown-up family to lament his loss. He was elected an Associate of the Institution on the 3rd of April, 1857. In writing to the Secretary in 1878, he expressed regret that circumstances had prevented his being an active member, owing to his numerous engagements on the continent, which occupied all his time, and required his undivided attention.

Mr. Thurston's mental characteristics were very marked. He possessed great energy and perseverance, a powerful memory, natural constructive ability, and a facility for thoroughly and clearly thinking out the consequences of any course of action he might have under his consideration. His upright character and kindness of heart won for him a large circle of friends.

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CHARLES FREWER was elected an Associate of the Institution, on the 2nd of February, 1866. He was at that time Manager, in London, of the Governor and Company of Copper Miners in England, a coal, copper, iron, and tinplate Company, which has been extinct for some years, but was then holding a Royal Charter granted as early as the year 1691. First as Secretary, and subsequently as Manager and Secretary, his engagement with this Company extended over a period of twenty-one years, and to within a short period of its dissolution, so that the energies of his comparatively short life may be said to have been principally expended in this Company's service. In 1873 he commenced trading on his own account as a railway-iron and general metal-merchant and agent, and he continued this business until his death. Although particularly unobtrusive, he had during his career come

in contact with a large number of business men directly and indirectly interested in the iron trade, including not a few members of the engineering profession, and he secured their confidence and respect, and in many cases their friendship, by his unremitting attention to the business entrusted to him, and by his strict and unswerving integrity. He took great interest in the proceedings of this Institution, attended its meetings regularly, and for many years officiated as one of the Scrutineers at the Annual Election of its Council. He was also elected to the Auditorship of the Institution for the years 1875 and 1876. He was exceptionally proficient in matters of account and in secretarial work, and among several appointments of a kindred nature, which he held at the date of his decease, was that of Auditor of the South Indian Railway Company, an office he had filled for five years. In his earlier private life, and even later on, when he had the responsibilities of a large family resting upon him, he devoted a considerable portion of the time which he had at his disposal to benefit his less-favoured fellow-man at home and abroad; and, as instancing his liberality of heart, it may be recorded that from the first he unfailingly devoted to charitable objects 10 per cent. of his earnings. Until within three months of his death he had enjoyed complete immunity from serious illness. Symptoms of blood-poisoning, contracted quite unconsciously, then showed themselves, and he died of intermittent fever on the 15th of July, 1885, aged 57 years.

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