

and of the latter from 1859. He served the office of High Sheriff of Staffordshire in 1868. He was a Governor of King Edward's School, Birmingham, from 1845 to 1879, a Director of the London and North Western Railway from 1863 to 1874, and a Member of the Council of University College, London, from 1880 to 1891, having been a Life-Governor thereof since 1874. Without further reference to the educational and philanthropic work to which he devoted much time and money, it may be recorded that in the year 1900 he endowed, at a cost of £50,000, the "Chance School of Engineering" in the University of Birmingham. He married in 1845 Elizabeth, fourth daughter of Mr. George Ferguson, of Houghton Hall, Carlisle. He received his baronetcy on the occasion of the last distribution of Birthday Honours by the late Queen.

He was elected an Associate of the Institution on the 21st May, 1867.

SIR THOMAS LUCAS, BART., died on the 6th March, 1902, in his 80th year. Born in 1822 he was the son of Mr. James Lucas, and brother of the late Mr. Charles T. Lucas, of Warnham Court. The latter was the first to enter business, as a builder, in partnership with his father; the subject of this notice subsequently joined his brother, and the firm of Lucas Brothers came into existence. Commencing in the eastern counties, with large works at Lowestoft, they undertook extensive operations in the development of that town; the construction of waterworks at Norwich and Yarmouth; and the building of country houses, Somerleyton, Henham, and Rendlesham, amongst others. Moving from Lowestoft to London, Lucas Brothers secured premises by the riverside in Lambeth, and entered upon a long series of undertakings of public interest and importance; the most notable buildings belonging to that period are the stations and hotels at Cannon Street and Charing Cross, the Royal Italian Opera House, the Albert Hall, the South Kensington Exhibitions of 1867 and 1871, the Alexandra Palace, the Junior Carlton Club, and some private houses, including Cliveden. They were responsible for Government work of varying magnitude; the reconstruction of Woolwich Arsenal and of Colchester Camp, besides work at Aldershot, Shorncliffe and elsewhere; and the provision of huts for the troops in the Crimea, for which they received the special thanks of the Government. In some instances they were associated with other leading builders and contractors, such as the

Brasseys, Sir Morton Peto, Mr. Wythes, and Sir John Kelk, in conjunction with whom they erected the Exhibition Buildings of 1862.

In 1874 arrangements were made for taking into partnership Mr. Aird, now Sir John Aird, Bart., M.P.; and under the style of Lucas and Aird, and John Aird and Sons, the new firms were heavily engaged in all directions on railways, dock and harbour construction, and gas- and waterworks, the Hull and Barnsley Railway, the West Highland Railway, besides work for most of the principal railway companies. The Tilbury and Royal Albert Docks, and numerous dock extensions, belong to the ensuing period; and it was to Lucas and Aird that the tentative scheme for connecting Suakim and Berber by railway, in 1885, was entrusted. Mr. Charles T. Lucas and his brother both retired from business during their lifetime, after a partnership of half a century, during which small beginnings had grown through strenuous efforts into a record of remarkable achievements.

Sir Thomas Lucas was twice married: first to the daughter of Mr. Golder of Folkestone; secondly to the daughter of Mr. Chamberlin of Catton, near Norwich. At one time he was much interested in the volunteer movement, and in the eastern counties took an active part in its encouragement. He was subsequently Major and Honorary Lieut.-Colonel in the Engineer and Railway Volunteer Staff Corps, and received the volunteer decoration. On one occasion he was called as a witness before a committee sitting at the Horse Guards, on the question of reserves and terms of service, and was requested to supply the members with a memorandum of his views. Sir Thomas Lucas's career was undoubtedly modified by the result of a trifling railway accident. A blow on the knee resulted in a peculiar affection which baffled all the resources of surgery, and during the last forty years of his life left him a constant sufferer, and in the end a confirmed invalid.

He was an ardent politician, and with better health would have probably taken a more active part in public life. He was intimately concerned with the schemes for erection of artisans dwellings, elaborated by the present Lord Cross during Lord Beaconsfield's last administration; and was consulted on subsequent occasions as to constructive work contemplated by Government. He was a member of the Carlton Club, and in 1887 his long association with public and political enterprise was recognised by the bestowal of a baronetcy.

Sir Thomas' home was at 12A Kensington Palace Gardens, where he took continual pleasure in the pictures and objects of

art which he had collected during many years. In 1880 he purchased Ashtead Park, in Surrey, but this he sold in 1888; recently he bought the property known as Heatherwood at Ascot, which became his summer residence.

For many years he spent the winter on the Riviera, and was a familiar visitor at Cannes, where he specially interested himself in St. George's Church, the memorial of the late Duke of Albany. He was associated with many charitable institutions, and was the patron of the Living of Ashtead. Ill-health compelled Sir Thomas at all times to lead a retired life; his principal recreation was the Opera, at which he was a regular attendant for many years; but latterly he was forced to entire seclusion.

He was elected an Associate of the Institution on the 6th December, 1864.

* * The following deaths have also been made known since the 21st April, 1902:—

Members.

ATTOCK, FREDERICK; <i>died</i> 21 May, 1902.	McMORDIE, DAVID, B.E. (<i>Queen's</i>); <i>died</i> 11 February, 1902.
BUCHANAN, GEORGE; <i>died</i> 3 May, 1902.	O'CONNOR, CHARLES YELVERTON, C.M.G.; <i>died</i> 10 March, 1902.
HUTTON, WILLIAM RICH; <i>died</i> 12 December, 1901.	SHAND, JAMES; <i>died</i> 10 June, 1902.
LEVENTHORPE, ALGERNON; <i>died</i> 3 July, 1902.	SLEATER, JOHN MONTGOMERY; <i>died</i> 6 May, 1902.
LOGAN, ROBERT PATRICK TREDENNICK; <i>died</i> 26 April, 1902.	TRUMAN, ARTHUR SMITH; <i>died</i> 6 June, 1902.

Associate Members.

ALEXANDER, FRANCIS GEORGE, B.A.I. (<i>Dubl.</i>); <i>died</i> 17 April, 1902.	CLEGG, BENJAMIN; <i>died</i> 21 February, 1902.
BEAHAN, JOHN CHARLES; <i>died</i> 10 February, 1902.	FOX, WILLIAM HENRY; <i>died</i> 24 May, 1902.
TOCHE, ALFRED REGINALD; <i>died</i> 15 January, 1902.	

Associate.

COLLINSON, THOMAS BERNARD, *Major-General R.E. retired*; *died* 1 May, 1902.

Information as to the career and characteristics of the above is solicited in aid of the preparation of Obituary Notices.—
SEC. INST. C.E., 4 July, 1902.