

GEORGE NAYLOR VICKERS was born on the 14th of November, 1830. He received the ordinary classical education of the day; his technical studies being chiefly confined to metallurgical chemistry, in which he became extremely proficient.

He became a partner in the firm of Naylor Vickers and Co. in 1853, and when the business was merged into that of Vickers, Sons and Co., Limited, he became a Director of the latter Company, and continued to be so up to the time of his death, which took place in Paris on the 20th of January, 1889.

As he chiefly resided abroad, his attention was more devoted to the commercial interests of the Company (for which his extensive knowledge of European languages peculiarly fitted him) than to the technical management of the works.

He was elected an Associate of the Institution on the 23rd of May, 1865.

---

CAPTAIN HARRY BORLASE WILLOCK, R.E., the only son of Mr. William Borlase Willock, of Fairfield, Tenby, was born on the 6th of March, 1854. He was educated at Cheltenham College, where he gained the Junior Scholarship in 1868, and in the following year the Senior Scholarship.

From Cheltenham he passed into the Royal Military Academy, at the age of seventeen. On obtaining a commission in the Royal Engineers as Lieutenant, in 1872, he proceeded to the School of Military Engineering at Chatham, where he soon made himself a name for his peculiar aptitude for details of railway work.

In 1876 he went to Bermuda, where he served with the 10th Company, Royal Engineers, and was employed in connection with the works for the defence of the New Dockyard and Naval Anchorage. After serving there nearly two years, he obtained leave for the benefit of his health, he having been offered a passage home in H.M.S. "Eurydice." Fortunately he did not avail himself of this privilege, and thus was saved the fate which befel all the crew of that unfortunate vessel which sank off the Isle of Wight, in 1878.

Returning from Bermuda, Lieutenant Willock joined the 2nd Company, Royal Engineers, at Shorncliffe, and proceeded with it to South Africa in December 1878. There he served in the earlier part of the Zulu War with Colonel (now Major-General) Sir C. K. Pearson's column, and was present in the action at Inyezane, on the 22nd of January, and throughout the occupation of Etshowe. He was mentioned in despatches, *London Gazette*, 16th of May, 1879, and received the medal and clasp.

A comrade at Etshowe, Major D. C. Courtney, R.E., bears high testimony to his unwearied devotion to duty, and the value of his unflinching cheerfulness in the vicissitudes of a most arduous campaign.

On his return to England, Lieutenant Willock was appointed to take charge of the workshops at the School of Military Engineering; and from there he proceeded to the Works Department, Royal Arsenal, Woolwich, under Colonel (now Major-General) W. H. Noble, R.E. His knowledge of steel and iron, and of the construction of railways, made him most useful in the particular duties assigned to him. Under Lieutenant Willock a considerable portion of the Arsenal railways were relaid, conducing greatly to facilitating the different transit arrangements among the various manufacturing departments.

On the outbreak of the Egyptian War, in 1882, Lieutenant Willock was appointed to assist in the Railway Transport, and prior to embarkation was engaged at Woolwich Arsenal in collecting railway material and plant, and loading it for shipment. He sailed for Egypt in August 1882, and superintended the unloading of the stores at Ismailia. In the performance of this work Lieutenant Willock acted in turns as stationmaster, guard, platelayer, engine-driver, &c. He assisted Lieutenant-Colonel D. A. Scott, R.E., when in charge of the railway-terminus at Ismailia. Later, Colonel Scott proceeded to Zag-a-Zig, and Lieutenant Willock was left in charge at Ismailia during the rush of traffic to Cairo, and at the conclusion of the campaign collected and accounted for all railway stores. For these services he received the Medal and Bronze Star. Returning to England at the end of 1882, he was placed on the staff of the Inspector of Iron Structures, at the War Office, and there assisted in the designing and construction of all machinery required in connection with the coast defences, and in the supply of material for, and general supervision of, military railways in this country, in Egypt, and the Sudan; for the latter service he was officially commended by the Inspector-General of Fortifications.

On Major English, R.E., accepting the appointment of Superintendent, Royal Carriage Factory, Captain Willock succeeded him as Inspector of Iron Structures. In this capacity, among other work, he completed the erection and tests of the 112-ton hydraulic traveller at Shoeburyness, and designed the details of the 250-ton pontoon sheers, now in course of construction. He acted as Secretary to the Committee on the preparation of the "Military Railway Manual," and also to the "Committee on the

preparation of Instruction for the Care and Maintenance of War Department boilers." In April 1884 he read a Paper before the Statistical Society, on "English Express-Trains in 1871, compared with those of 1883," which was much commended. He died at his father's house at Tenby, on the 6th of February, 1889, after a very short illness. He was elected an Associate of the Institution on the 13th of January, 1885.

Captain Willock's characteristics were comprehensiveness of idea, and great accuracy of detail. His mind seemed to grasp at once the ulterior object of an undertaking, and he was most careful in carrying out the details. His early death robbed the Service of one of its most promising men, and his friends of a bright and genial companion.

\* \* The following deaths have occurred, or been made known, since the 22nd of February last, in addition to some of those included in the foregoing notices :—

*Members.*

HINDMARSH, THOMAS; <i>born</i> 9 September, 1827; <i>died</i> 8 February, 1889.	SIMPSON, JAMES; <i>born</i> 10 January, 1829; <i>died</i> 11 May, 1889.
LESLIE, Hon. HENRY HAWORTH; <i>died</i> 15 March, 1889; <i>aged</i> 43.	SPICE, ROBERT PAULSON; <i>died</i> 11 May, 1889; <i>aged</i> 75.
MC CONNOCHIE, JOHN; <i>born</i> 9 October, 1823; <i>died</i> 28 March, 1889.	STANFORD, WALTER HALSTED CORTIS; <i>born</i> 27 November, 1840; <i>died</i> 18 May, 1889.
MOORE, WILLIAM; <i>born</i> 20 November, 1834; <i>died</i> 19 May, 1889.	STILEMAN, FRANCIS CROUGHTON; <i>born</i> 26 May, 1824; <i>died</i> 18 May, 1889.
PEACOCK, RICHARD, M.P.; <i>born</i> 9 April, 1820; <i>died</i> 3 March, 1889.	TURNBULL, GEORGE; <i>born</i> 2 September, 1809; <i>died</i> 26 February, 1889.

*Associate Members.*

FREND, WILLIAM ARTHUR; <i>born</i> 22 April, 1858; <i>died</i> April, 1889.	SCOTT, WILLIAM HEWLETT; <i>born</i> 15 October, 1858; <i>died</i> 23 April, 1889.
LEATHER, SAMUEL PETTY; <i>born</i> 8 April, 1823; <i>died</i> 20 February, 1889.	WALLACE, DAVID; <i>born</i> 18 October, 1847; <i>died</i> 5 May, 1889.
LEUPOLD, HUGO; <i>died</i> 14 April, 1889.	

*Associate.*

LEE, HENRY; *born* 31 August, 1823; *died* 1 March, 1889.

Information respecting the life and works, the career and leading characteristics, of any of the above, is solicited, to aid in the preparation of future Obituary Notices.—SEC. INST. C.E., 27 May, 1889.