

pupillage to Mr. Richard Carter, of Halifax, from 1854 to 1857, during which time he was occupied on the construction of road-sewers, railway, and other works. From 1857 to 1859 he was engaged on the Bradford Waterworks as Engineer to the contractors for 6 miles of tunnel, 5 miles of conduit, including intercepting weirs, aqueducts, 1 mile of inverted siphons, a compensation reservoir covering 100 acres, and a service-reservoir. In 1859 he was entrusted by the same firm with the charge of the construction of about 200 miles of the Great Indian Peninsula Railway; and on the completion of that contract in 1863 he returned to Halifax, where he entered into partnership with Mr. G. W. Stevenson. Together they prepared Parliamentary plans and sections, and the designs of the bridges, viaducts and tunnels for the Halifax and Ovenden Junction Railway, and were also engaged in connection with the Ripon Corporation Waterworks and the Halifax Gasworks.

The partnership with Mr. Stevenson was dissolved in 1865, when Mr. Utley was joined by Colonel Gray, with whom his association continued until 1897, since when the firm has been known as Utley, Hebblethwaite and Utley. Amongst other works Mr. Utley laid out systems of sewerage for the districts of Sowerby Bridge, Sowerby and Stainland; as Engineer to the Luddendon Local Board he designed and superintended the erection of a skew-bridge over the River Calder and other works; and, in conjunction with Messrs. John Fraser and Sons, he acted as Engineer to the Halifax High-level and North and South Junction Railways.

Mr. Utley died at his residence, Norfolk Place, Halifax, on the 7th January, 1900.

He was elected an Associate of the Institution on the 1st March, 1864, was subsequently placed in the class of Associate Members, and was transferred to the class of Members on the 14th February, 1888.

WILLIAM JOHN WILSON, born in Bombay on the 19th March, 1851, obtained his engineering training at the Royal Indian Engineering College, Coopers Hill, from which he was appointed in 1874 an Assistant Engineer in the Public Works Department of the Government of India. He was posted to the Northern Division of the Ganges Canal, and was employed on irrigation work, on the construction of drainage works, and on the repairs of Jaoli Falls on the main canal. At the end of 1875 he was transferred to the

Anupshahr Branch of the Ganges Canal, and was engaged on the construction of bridges and of the "Siana Escape," an aqueduct of 7 miles in length. From 1879 to 1885 he was employed, under the Director of Agriculture and Commerce, on the construction of wells for irrigation in the North-West Provinces and in Oudh. In 1885 he was placed in charge of the Narora Division of the Lower Ganges Canal, and in 1888 he was appointed Personal Assistant to the Chief Engineer of the Irrigation Branch, and Under-Secretary to Government for the North-West Provinces and Oudh.

Mr. Wilson's experience in India marked him as peculiarly fitted for the Egyptian Government Public Works Department, which he joined in 1892 as Inspector of the First Circle of Irrigation in Lower Egypt. In February, 1895, he was appointed Inspector General of Irrigation in Upper Egypt, and in May, 1898, Director-General of Reservoirs. His death, which took place in Cairo on the 13th August, 1900, after a short illness from meningitis, has proved a great loss to the Egyptian Government, as, owing to his intimate connection with the works from their inception, he was thoroughly acquainted with all the minute details of the great reservoirs. At the time of his death he was acting as Under-Secretary of State for Public Works, during the absence of Sir William Garstin on leave. Mr. Wilson was a man of most amiable and retiring character, and was always ready to give advice and assistance to those who appealed to him.

He was elected an Associate of the Institution on the 7th May, 1878, was subsequently placed in the class of Associate Members, and was transferred to the class of Members on the 20th May, 1890.

ROBERT WINGATE, born on the 2nd August, 1832, began his engineering career as a pupil of the late Mr. Alexander M. Ross, on the Chester and Holyhead Railway. After the expiration of his pupilage he was on the engineering staff of the Metropolitan Commission of Sewers for two years, and was next engaged from 1853 to 1856, for Messrs. Peto and Betts, on the construction of the Grand Trunk Railway of Canada. In 1856 he entered the service of that Company, and was employed on the Eastern and Central sections until 1863, when he was appointed District Engineer for Messrs. Peto and Betts on the construction of the Dünaberg-Witepsk Railway in Russia. On the completion of that work he was engaged on the construction of the East Hungarian