

appointed mineral agent to the Duke of Buccleuch's estates in Furness, and from that time until his death he was prominently associated with the mineral and industrial development of Barrow and district, being a director of the Barrow Hematite Company, the Walney Exploration Company, the Furness Railway Company and other undertakings. He was also three times Mayor of Barrow, and filled many other local offices.

Mr. Wadham was elected an Associate of The Institution on the 6th December, 1853, and was transferred to the class of Members on the 17th December, 1866, being thus connected with The Institution nearly 60 years.

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WILLIAM WARD-SMITH, born on the 17th March, 1850, died at Bedford on the 28th February, 1913. Having passed through the Thomason Civil Engineering College, Roorkee, he joined the Indian Public Works Service in 1872. He served nearly 30 years on irrigation and other works in the North-West Provinces and Oudh, becoming Executive Engineer in 1881, and retiring in 1901.

Mr. Ward-Smith was elected a Member of The Institution on the 1st March, 1887.

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ARTHUR ANDERSON WEST, born in London in 1827, died at Theydon Bois, Essex, on the 22nd May, 1913. Educated at King's College, London, he went to India in 1847, where he was engaged for 20 years in varied engineering work, notably the survey and construction of the Bhor Ghât inclines on the Great Indian Peninsula Railway. In 1873 he went to Canada, but for nearly 30 years prior to his death he lived at Theydon Bois, Essex, and interested himself in local antiquities.

Mr. West was elected a Member of The Institution on the 4th December, 1866.

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PERCIVAL ROBERT AUGUSTUS WILLOUGHBY, born in 1868, died at Llandilo on the 1st May, 1913. He served his articles to Mr. H. O. Fisher on the Taff Vale Railway, and afterwards