

just and loyal. He delighted in his work and entertained a great regard for those who served under him, by whom he was in turn respected and esteemed. His widow and children mourn a devoted husband and father, while many have suffered the loss of a staunch and constant friend.

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JAMES CRAIG, born in Aberdeen on the 24th July, 1844, became a pupil, at the age of seventeen, to Mr. William Boulton, of Montrose, under whom he was employed on survey and drainage work. He was afterwards engaged, during the year 1865, as Assistant Borough Engineer to the corporation of Dundee on the extensive sewerage works then in progress in that town.

In 1866 Mr. Craig obtained by competitive examination the post of an Assistant Engineer in the Public Works Department of the Government of India. He was posted to the Province of Hyderabad and served as Assistant Engineer in the Secunderabad Division for six years. During that time he was employed chiefly on the construction of new barracks for British troops, and in 1871 he received the commendation of the Government for the zeal and energy displayed by him in cleansing and purifying the Hussar barracks at Secunderabad after an outbreak of cholera. Another important scheme—the water-supply of South Trimulgherry—was also projected and carried to successful completion by him. In 1872 he was selected to assist Major Swetenham, R.E., in the construction of a complete set of new barracks for a British cavalry regiment in North Trimulgherry. The whole of the estimates and details were framed and elaborated by him, and for five years the construction of two-thirds of the project was carried on under him, for some time as Assistant Engineer, and at others as Executive Engineer, the quality of the work being acknowledged to be unsurpassed in India. The general scheme for the water-supply of North Trimulgherry was also prepared by him, and was afterwards supervised and carried out by another officer, with but slight modification from the original design.

Early in 1878 Mr. Craig was posted to the executive charge of the West Berar Division, where he was employed on the construction of roads, buildings and impounding reservoirs, in addition to the ordinary maintenance works of a District Division. Among other works upon which he was engaged may be mentioned the construction of 150 miles of new roads, and of two reservoirs

of considerable magnitude at Sheogaon and Akutwarra, in the Akola District; the water-supply of the town of Khamgaon; and the Akola-Hingoli railway survey. During 1893 and 1894 he was employed in Burma on the construction of important waterworks at Moulmein.

Mr. Craig retired from the service of the Indian Public Works Department in 1895. After residing for a few months in Aberdeen, he settled at Newport, a suburb of Dundee, where he died on the 3rd May, 1897. Mr. Craig was a man of kind and genial disposition, and was specially attentive to young men about to go out to India, readily placing his experience and hospitality at their service. He was elected a Member on the 3rd April, 1883, and two years later contributed a Paper on "Flood-Discharge from Catchment-Areas,"<sup>1</sup> for which he was awarded a Telford Premium.

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LAVINGTON EVANS FLETCHER was born on the 9th June, 1822. In 1839 he was articled to the firm of Messrs. Barrett, Exall and Andrews, of the Katesgrove Ironworks, Reading, with whom he remained nearly two years after his pupillage was completed. During that period he had charge of the erection of the first engine, boiler and biscuit machinery used at Messrs. Huntley and Palmer's manufactory, and of a steam-engine, boilers and pumps, to drain one of the shafts, 200 feet deep, of the Box Tunnel on the Great Western Railway. He also took up the subject of improvements in steam-engines and boilers, to secure economy of fuel, and repaired and adjusted engines for several paper-makers. While still at Reading Mr. Fletcher designed and made a steam-carriage,<sup>2</sup> the running of which had to be discontinued, owing to defects in the boiler. After this he went to Nassau for a time, and on his return to England was employed during 1845 on surveys for several railway schemes.

During the five years, 1846-50 inclusive, Mr. Fletcher was engaged under Mr. I. K. Brunel<sup>3</sup> as an Assistant Engineer on the South Wales Railway, being stationed at Swansea. He designed several bridges and tunnel fronts, as well as the mechanical arrangements of the Carmarthen Iron Swing Bridge and of the Lloghor

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<sup>1</sup> Minutes of Proceedings Inst. C.E., vol. lxxx. p. 201.

<sup>2</sup> *Engineering*, vol. lxiv. p. 21, and *The Times*, 18 April, 1843.

<sup>3</sup> Minutes of Proceedings Inst. C.E., vol. xix. p. 169.