

in, as he styles it, 'tilling virgin soil,' even though we may be unable to acquiesce implicitly in all the 'conceptual estimates' to which he lays claim. —*Sat. Rev.*, lvi. 341.

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Abel, Sir Frederick Augustus, C.B., D.C.L., b. 1827, in London, Associate Member of the Ordnance Committee, Chemist to the War Department, and Chemical Referee to the British Government. He has been President of the Institute of Chemistry and of various scientific societies, and was knighted in 1883. 1. The Modern History of Gunpowder. ("Science Lectures.") Lon., 1866, 8vo. 2. Gun Cotton. ("Science Lectures.") 1866, 8vo. 3. On Recent Investigations and Applications of Explosive Agents: a Lecture. Edin., 1871, 8vo. 4. Researches in Explosives, 1873. 5. Electricity applied to Explosive Purposes, 1884. With BLOXAM, COL. CHARLES LONDON, Hand-Book of Chemistry, Theoretical, Practical, and Technical, 1854, 8vo; 2d ed., 1858.

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Abercromby, Hon. Ralph, b. 1842, late 60th Rifles, third son of the third and brother of the fourth Baron Abercromby. He is a Fellow of the Meteorological Society. 1. Principles of Forecasting by Means of Weather Charts. Lon., 1885. 2. Weather: a Popular Exposition of the Nature of Weather Changes from Day to Day. ("International Series.") Lon., 1887, p. 8vo.

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Aberdare, Lord. See BRUCE.

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Abert, Silvanus Thayer, b. 1828, in Philadelphia, was educated at Princeton University, served in the civil war, and has since been engaged as civil engineer in numerous government surveys. Besides official

reports, he has published Notes, Historical and Statistical, upon the Projected Route for an Inter-oceanic Ship Canal between the Atlantic and Pacific Oceans, Cincinnati, 1872.

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Abney, A. H. Life and Adventures of J. D. Laferty, N. York, 1875, 12mo.

Abney, William de Wivesleslie, F.R.S., b. 1843, at Derby, Eng., and educated at the Royal Military Academy, Woolwich; captain in the Royal Engineers 1873; became instructor in chemistry to the Royal Engineers, Chatham, and afterwards inspector for science in the science and art department. He was one of the scientific observers of the transit of Venus in 1874. He has contributed a large number of papers to the Philosophical Magazine and the Philosophical Transactions of the Royal Society, some of which have been republished. 1. Instructions in Photography, Lon., 1874, 12mo; 5th ed., 1882. 2. Photography. Illust. (South Kensington Lect.) Lon., 1876, 12mo. 3. Thebes and its Five Greater Temples. Illust. Lon., 1876, 4to. 4. Photography. ("Text-Books of Science.") Lon., 1878, 12mo. 5. Emulsion Processes in Photography, Lon., 1878, 12mo. 6. Practical Working of Gelatine Emulsion Process, Lon., 1880, 12mo. 7. (Trans.) Chemical Effect of the Spectrum. By J. M. Eder. Lon., 1883, 12mo. 8. Negative Making: on Gelatine Plates, Lon., 1887, 12mo. 9. Colour Photography. Bakerian Lecture, (Philosophical Transactions of the Royal Society,) Lon., 1887, 4to. 10. Solar Spectrum. (Phil. Trans.) Lon., 1887, 4to. 11. Transmission of Sunlight through the Earth's Atmosphere. (Phil. Trans.) Lon., 1888, 4to. 12. (Ed.) The Spectrum Analysis in its Application to Terrestrial Substances and the Physical Constitution of the Heavenly Bodies. By Dr. H. Schellen. With Notes. Lon., 1885, 8vo. With FESTING, —, Atomic Grouping of Molecules. (Phil. Trans.) Lon., 1882, 4to. With SCUTENBERG, —, The Total Solar Eclipse of May 17, 1882. (Phil. Trans.) Lon., 1884, 4to.

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