

NUMBER CLXXXVIII.

	Page.
ART. IX.—On hitherto unrecognized Wave-lengths; by S. P. LANGLEY	83
X.—On the chemical composition of Herderite and Beryl, with note on the precipitation of aluminum and separa- tion of beryllium and aluminum; by S. L. PENFIELD and D. N. HARPER	107
XI.—Communications from the U. S. Geological Survey, Division of the Rocky Mountains. VIII. On Ptilolite, a new Mineral; by W. CROSS and L. G. EAKINS	117
XII.—Notes on the Peridotite of Elliot County, Kentucky; by J. S. DILLER	121
XIII.—Temperature Observations at the Lake Superior Copper Mines; by H. A. WHEELER	125
XIV.—An Application of the Copper Reduction Test to the Quantitative Determination of Arsenic; by H. CAR- MICHAEL	129
XV.—On the Crystallization of Gold; by E. S. DANA . . .	132
XVI.—Classification of the Cambrian System of North America; by C. D. WALCOTT	138
XVII.—Note on the Spectrum of Comet C, 1886; by O. T. SHERMAN	157

SCIENTIFIC INTELLIGENCE.

Chemistry and Physics.—On the Combustion of Carbon monoxide and Oxygen, L. MEYER, 159.—On the Combustion of Cyanogen, DIXON: On the so-called Critical Pressure in Solids, v. RICHTER, 160.—Studies from the Laboratory of Physiological Chemistry, Sheffield Scientific School of Yale College, for the Year 1884–85, CHITTENDEN, 161.

Geology and Natural History.—Geological Survey of Pennsylvania, LESLEY: Volcanic Eruption in New Zealand, 162.—New Minerals, A. WEISBACH, 163. The Zoetrope applied to crystallographic transformations, R. H. RICHARDS: Sketch of the Flora of South Africa, H. BOLUS, 164.—Descriptive Catalogue of the Gallery of Marianne North's Paintings of Plants and their Homes, Royal Gardens, Kew, W. B. HEMSLEY: Official Guide to the Museums of Economic Botany, Royal Gardens, Kew: Filippo Parlatore, Flora Italiana, T. CARUEL, 165.—Flora Brasiliensis, SCHUMANN: HOOKER'S Icones Plantarum, 166.