

NUMBER CLXXXIII.

	Page
ART. XVI.—Examination of Dr. Croll's Hypotheses of Geological Climates; by A. WOEIKOF,	161
XVII.—Tendril Movements in <i>Cucurbita maxima</i> and <i>C. Pepo</i> ; by D. P. PENHALLOW,	178
XVIII.—Note on a Method of Measuring the Surface Tension of Liquids; by W. F. MAGIE,	189
XIX.—Wm. B. Rogers's Geology of the Virginias; by J. L. and H. D. CAMPBELL,	193
XX.—Observations on the Tertiary of Mississippi and Alabama; by D. W. LANGDON, JR.,	202
XXI.—Area of Upper Silurian rocks near Cornwall Station, eastern-central Orange Co., N. Y.; by N. H. DARTON, ..	209

SCIENTIFIC INTELLIGENCE.

Physics and Chemistry.—Dilatancy of Media composed of Rigid Particles in contact, O. REYNOLDS, 216.—Use of the Induction Spark in Spectrum work, E. WIEDEMANN: Vapor-pressures of Mercury, RAMSAY and YOUNG, 218.—Limits of the conversion of Sodium carbonate into Sodium hydrate by means of Lime, LUNGE and SCHMID, 219.—Phenol constituents of Blast Furnace tar, W. SMITH, COUTTS and BROTHERS: Presence of Raffinose in Barley, O'SULLIVAN, 220.—Elements of Inorganic Chemistry, J. H. SHEPARD: Chemical Problems, K. STAMMER, 221.

Geology and Mineralogy.—Bottom Deposits from dredgings under the supervision of A. AGASSIZ, 221.—Törnebohm on the formation of quartzite by enlargement of the quartz fragments of sandstone, R. D. IRVING, 225.—A Submarine Crater in the Atlantic near the Canaries, T. M. READE: Geological Sketch of the island of Antigua, E. C. PURVES, 226.—Pennsylvania Geological Survey, 227.—Fossil Scorpion from American Rocks, and other fossils, R. P. WHITFIELD, 228.—Mineral Resources of the United States, A. WILLIAMS, JR.: Contributions to Mineralogy, F. A. GENTH, 229.—Brief notices of some recently described Minerals, 230.

Botany and Zoology.—Contributions to the Flora of the Peruvian Andes, with Remarks on the History and Origin of the Andean Flora, J. BALL, 231.—Monographie du Genre *Thalictrum*, J. C. LECOYER, 235.—Nomenclature of Fossil Leaves, etc., NATHORST, 236.—Erythrææ Exsiccæ, WITTRÖCK: European Juncaceæ, F. BUCHENAU: Rubra, Spicata, Palmata, Trifoliata, F. PAX, 237.—Hepaticæ Amazonicæ et Andinæ, R. SPRUCE: Synoptical Flora of North America, A. GRAY: Prodrômus Faunæ Mediterraneæ, J. V. CARUS, 238.

Astronomy.—Comets (Fabry) and (Barnard), E. WEISS, 238.

Miscellaneous Scientific Intelligence.—Isaac Lea Bibliography, N. P. SCUDDER, 239.

Obituary.—JOHN L. CAMPBELL, 240.