

NUMBER CXLVIII.

	Page
ART. XXVII.—Review of DeCandolle's Origin of Cultivated Plants; with Annotations upon certain American Species; by A. GRAY and J. H. TRUMBULL,	241
XXVIII.—Remarks on Glyptocrinus and Reteocrinus, two Genera of Silurian Crinoids; by C. WACHSMUTH and F. SPRINGER,	255
XXIX.—Smee Battery and Galvanic Polarization; by W. HALLOCK,	268
XXX.—The Age of the Southern Appalachians; by J. B. ELLIOTT,	282
XXXI.—Evolution of the American Trotting-Horse; by W. H. BREWER,	299

SCIENTIFIC INTELLIGENCE.

Chemistry and Physics.—Reciprocal Displacement of the Halogens, BERTHELOT, 305.—Action of Nascent Hydrogen in increasing the Activity of Oxygen, HOPPE-SEYLER, 306.—Phosphorescent Flame of Sulphur, HEUMANN: Hydrates of the Sulphhydrates, DE FORCRAND, 307.—Brominated Carbon compounds produced in the Bromine manufacture, DYSON: Change in the double refraction of quartz produced by electrical forces, W. C. RÖNTGEN: Optical behavior of quartz in an electrical field, A. KUNDT: Magnetic storms, M. MASCART, 308.—Comet of 1882, THOLLON and GOUY: Magnetizing function of Steel and Nickel, HUGO MEYER: Determinations of the Ohm, G. C. FOSTER, 309.

Geology and Natural History.—Palæo-geological and Geographical Maps of the British Islands and the adjoining parts of the Continent of Europe, E. HULL: Geological Survey of Pennsylvania: Geology of Philadelphia County and of the southern parts of Montgomery and Bucks, 310.—Report on the Geological Survey of Ohio: United States Geological Survey: Geological Survey of Alabama: Equivalency of the Lime Creek beds of Iowa, H. S. WILLIAMS: Chondrodite and Humite, H. SJÖGREN, 311.—Arboretum Segrezianum, ALPHONSE LAVALLÉE: Color and Assimilation, TH. W. ENGELMANN, 312.—Influence of Sunny and Shaded Localities on the Development of Foliage Leaves, K. STAHL, 313.—Rabenhorst's Kryptogamen-Flora: Heterœcism of the Uredines, C. B. PLowRIGHT, 314.—Anatomical Technology as applied to the domestic Cat, an introduction to human, veterinary and comparative anatomy, B. G. WILDER and S. H. GAGE: Mémoires concernant l'Histoire Naturelle de l'Empire Chinois par des pères de la compagnie de Jésus, 316.

Astronomy.—Astronomical Papers of the American Ephemeris, 317.—Transits of Mercury, 1677-1881, 317.—*Obituary.*—Henry Seybert, 320.