

NUMBER CLXXXV.

	Page
ART. XXX.—The columnar structure in the igneous rock on Orange Mountain, New Jersey; by J. P. IDDINGS. (With Plate IX),.....	321
XXXI.—Larval Theory of the Origin of Tissue; by A. HYATT,.....	332
XXXII.—Cretaceous Metamorphic Rocks of California; by G. F. BECKER,.....	348
XXXIII.—Arnold Guyot,.....	358
XXXIV.—Determination of Fossil Dicotyledonous Leaves; by L. F. WARD,.....	370
XXXV.—Pseudomorphs of Limonite after Pyrite; by E. G. SMITH,.....	376
XXXVI.—Influence of Motion of the Medium on the Velocity of Light; by A. A. MICHELSON and E. W. MORLEY,...	377
XXXVII.—Note on the Structure of tempered Steel; by C. BARUS and V. STROUHAL,.....	386
XXXVIII.—Brookite from Magnet Cove, Arkansas; by S. L. PENFIELD,.....	387

SCIENTIFIC INTELLIGENCE.

Physics and Chemistry.—Critical Temperatures and Pressures of certain Gases, VINCENT and CHAPPUIS, 389.—Double Refraction produced by Metallic films, KUNDT, 390.—Continuous production of Oxygen by the action of Calcium hypochlorite upon Cobalt oxide, BIDEZ: Direct fixation of Atmospheric Nitrogen by certain argillaceous Soils, BERTHELOT, 391.—Combustion of Carbon monoxide and of Hydrogen, DIXON, 392.

Geology and Natural History.—Gas-Wells on Anticlinals, I. C. WHITE, 393.—Volcano of Barren Island in the Bay of Bengal, 394.—Eruption at Kilauea, Hawaii, in March, 1886, 397.—Making deposits of the remains of birds, squirrels, and other small animals, E. W. HILGARD, 398.—History of Taconic investigation previous to the work of Professor Emmons, J. D. DANA, 399.—Fifth Annual Report of the U. S. Geological Survey, 1883–84, J. W. POWELL, 401.—The work of the International Congress of Geologists and its Committees, PERSIFOR FRAZER: Mastodon, Llama, etc., from Florida, LEIDY: Fossil leaves in Staten Island and Long Island Clay beds: Systematische Übersicht der fossiler Myriapoden, Arachnoideen und Insecten, von S. H. SCUDDER, 403.—Higher Devonian Faunas of Ontario Co., N. Y., J. M. CLARKE: Fossil Ostracoda from Colorado. T. RUPERT JONES: The Tripyramidal Slides of 1885, A. A. BUTLER, 404.—Titanichthys and Dinichthys from the Devonian of Ohio: Catalogue of the Fossil Mammalia in the British Museum, R. LYDEKKER: Discussion on Climate and Cosmology, J. CROLL: Allgemeine und chemische Geologie von JUSTUS ROTH: Crystalline slag having the composition of Fayalite, E. CLAASSEN, 405.—Journal of the Trenton Natural History Society: Recent Notes from Botanische Zeitung, 406.

Astronomy.—Popular History of Astronomy during the Nineteenth Century, A. M. CLERKE, 406.—The Star-guide, L. CLARK and H. SADLER: Photographic Study of Stellar Spectra, 407.

Miscellaneous Scientific Intelligence.—The Fisheries and Fishery Industries of the United States, G. B. GOODE, 407.—Outlines for a Museum of Anatomy, R. W. SHUFELDT: Earthquakes in New England, W. M. DAVIS: Medals of the Geological Society: Medal of the Astronomical Society of London, 408.