

NUMBER XL.

	Page
ART. XXIX.—On the great Lava-flood of the Northwest; and on the structure and Age of the Cascade Mountains; by JOSEPH LeCONTE,	259
XXX.—Parallelism of Coal Seams; by J. S. NEWBERRY,	367
XXXI.—Notes on some of the Fossils figured in the recently- issued Fifth volume of the Illinois State Geological Re- port; by F. B. MEEK,	369
XXXV.—Laboratory Notes; by M. CAREY LEA,	376
XXXIII.—The Auriferous Gravel Deposit of Gold Bluffs; by A. W. CHASE,	379
XXXIV.—Notices of Recent Earthquakes.—No. 4; by C. G. ROCKWOOD, JR.,	384
XXXV.—Geographical and Geological Explorations and Sur- veys West of the 100th Meridian; GEO. M. WHEELER, ..	388
XXXVI.—On a Mass of Meteoric Iron of Howard Co., Ind.; by J. LAWRENCE SMITH,	391
XXXVII.—On the Hamilton in Ohio; by N. H. WINCHELL, ..	395
XXXVIII.—On the Lignites and Plant-Beds of Western America; by J. S. NEWBERRY,	399
XXXIX.—Results of recent Dredging Expeditions on the Coast of New England. No. 6; by A. E. VERRILL,	405

SCIENTIFIC INTELLIGENCE.

- Chemistry and Physics.*—On the Variations of Chemical Activity in the Solar Spectrum, VOGEL, 414.—On Plateau's Glyceric liquid, TERQUEM, 415.—On the Preparation of Nitric Oxide, N_2O_5 , BERTHELOT, 416.—On Ammonium nitrite, BERTHELOT: Mechanical Equivalent of Heat, H. SERRANO Y. FATIGATI, 417.—Distribution of magnetism in soft iron, JAMEN: Electro-torsion, GEO. GORE, 418.—Physiology of Flight, MAREY, 419.—The Vermiculites: their Crystallographic and Chemical relations to the Micas. etc; by JOSIAH¹². COOKE, JR., 420.
- Geology and Natural History.*—Eozoon Canadense not a Foraminifer or Calcareous Rhizopod secretion, H. J. CARTER, 437.—Note on the Geology of Costa Rica, 438.—More human skeletons from the Caves of Mentone, RIVIÈRE: Mines and Mining in the States and Territories West of the Rocky Mountains, ROSSITER W. RAYMOND: Mineralogy and Chemistry: Original Researches; by J. LAWRENCE SMITH, 439.—Parthenogenesis in Ferns, WM. G. FARLOW: Sarracenias as Fly-Catchers, 440.—Hooker's Flora of British India: Pachystigma Canbyi Gray: Woodsia Ilvensis, why so named? FOURNIER, 442.—The New Views respecting the nature of Lichenes and their Gonidia: Villars: Eryngium; species with parallel-veined leaves, DECAISNE, 443.—On the Origin and Metamorphoses of Insects; by JOHN LUBBOCK: Man and Apes; by ST. GEORGE MINART: The Comparative Anatomy of the Domesticated Animals; by A. CHANEAN: The Structure of Animal Life; by L. AGASSIZ, 444.—Our Common Insects; by A. S. PACKARD, JR.: Ophiuridæ and Astrophytidæ; by T. LYMAN: Transactions of the Connecticut Academy of Arts and Sciences: New genus *Euchondria Meek*, 445.
- Astronomy.*—Astronomical and Meteorological Observations, 1871: New Comet: New Planet: Engravings from Harvard College Observatory, 446.
- Miscellaneous Scientific Intelligence.*—Agassiz Memorial, 446.—Cycle of Magnetic declination, SCHOTT, 448.—Relation between the color of certain Birds and their geographical distribution, ALPH. MILNE-EDWARDS: Proposed Scientific Survey of the State of Massachusetts: Transactions of the American Institute of Mining Engineers, 449.—Dictionary of Elevations and Climatic Register of the United States; by J. M. TOWER: The Birth of Chemistry; by G. F. ROWELL: Dunglison's Medical Dictionary, &c., 450.—*Obituary.*—Prof. L. A. J. Quételet: Mädler, 450.