

NUMBER LXXII.

	Page
ART. XLIII.—Experiments on the nature of the force involved in Crookes' Radiometer; by O. N. ROOD,.....	405
XLIV.—Experiments on the Sympathetic Resonance of Tuning Forks; by ROBERT SPICE,.....	411
XLV.—Types of Orographic Structure; by J. W. POWELL,	414
XLVI.—On the Ethers of Uric Acid; by H. B. HILL,.....	428
XLVII.—Notice of a Meteorite, from Madison Co., N. C.; by B. S. BURTON,.....	439
XLVIII.—On a Recent Discovery of Carboniferous Batrachians in Nova Scotia; by J. W. DAWSON,.....	440
XLIX.—On the association of crystals of Quartz and Calcite in parallel position, as observed on a specimen from the Yellowstone Park; by EDWARD S. DANA,.....	448
L.—Principal Characters of the American Pterodactyls; by O. C. MARSH,.....	479

SCIENTIFIC INTELLIGENCE.

- Chemistry and Physics.*—On the size of Hydrogen Atoms, ANNAHEIM: On the Atomic Weight of Selenium, PETERSSON and EKMAN, 451.—Nitrogen-measuring Tube, ZULKOWSKY: On the Physical properties of Gallium, BOISBAUDRAN, 452.—New Vapor-density method for substances of high boiling-points, VICTOR MEYER: On Glycero-phosphoric acid from Brain Tissue, THUDICHUM and KINGZETT, 453.—Chemistry, General, Medical, and Pharmaceutical, including the Chemistry of the U. S. Pharmacopœias, JOHN ATTFIELD: A Systematic Handbook of Volumetric Analysis, etc., FRANCIS SUTTON: *Chemia Coartata*, or the Key to Modern Chemistry, A. H. KOLLMYER, 454.—Lissajous' Curves, M. MERICADIER: Mechanical Equivalent of Heat: Ohm's Law, MAXWELL, 455.—Protection of Buildings from Lightning, MAXWELL: On the Tidal Retardation Argument for the Age of the Earth, JAMES CROLL, 457.—Sound, JOHN TYNDALL: Ansichten über die gepaarten Schwefelverbindungen, GEORGE A. SMYTH, 459.
- Geology and Mineralogy.*—Report on the Geological Map of Massachusetts, W. O. CROSBY, 459.—Geological Survey of Indiana, Seventh Annual Report, made during the year 1875, E. T. COX, 460.—Geological Map of Scotland, ARCHIBALD GEIKIE: Huronian of Canada, A. R. C. SELWYN: Geological Survey of Michigan, C. ROMINGER, 461.—Memoirs of the Geological Survey of India: Detritus of Rivers, 462.—Mallet's Theory of Volcanic Energy: Geological reunion at the Paris Exposition in 1878, 463.—Recent Discoveries of the Brazilian Geological Commission, 464.—New Minerals: The "Mexican Onyx," 466.
- Botany and Zoology.*—Relation of Coloration to Environment: Subradical solitary Flowers in Scirpus, 477.—Dictionnaire de Botanique, M. H. BAILLON: Nuovo Giornale Botanico Italiano diretto da T. CARUEL: Flora Orientalis, auctore EDMOND BOISSIER, 468.—On the Barringtoniaceæ, JOHN MIERS: A Catalogue of the Forest Trees of the United States, GEO. VASEY: Morphology of the Carpillary Scales of Coniferæ, 469.—Species, Genera, et Ordines Algarum, J. G. AGARDH, 470.—Notes Algologiques, M. M. ED. BORNET et G. THURET, 471.—Nuttall Ornithological Club: A Course of Practical Instruction in Elementary Biology, T. H. HUXLEY and H. N. MARTIN: On Casting the skin in Menopoma Alleghaniense, A. R. GROTE, 472.
- Astronomy.*—Intra-Mercurial Planet, 472.—November Meteors, 473.
- Miscellaneous Scientific Intelligence.*—On the Extirpation of Species, ALFRED NEWTON, 473.—Papers read at the session of the National Academy of Sciences held at Philadelphia, 476.—Proceedings of the Cincinnati Society of Natural History: The Scientific Monthly: The Universal Metric System, ANDREW COLIN, 477.—Bulletin of the Minnesota Academy of Natural Sciences, for the year 1875, N. H. WINCHELL: Arrangements for a Meeting of the British Association, 478.—*Obituary.*—Charles Sainte-Claire Deville, 478.