

NUMBER LXVI.

	Page
ART. LIV.—Note on the Duplicity of the "1474" line in the Solar Spectrum; by C. A. YOUNG,	429
LV.—On a Lithia-bearing Biotite; by G. W. HAWES,	431
LVI.—Researches on the Solid Carbon Compounds in Meteorites; by J. LAWRENCE SMITH,	433
LVII.—Results of Experiments on Contact Resistance; by W. A. NORTON,	442
LVIII.—Physical Observations on Saturn; by L. TROUVELOT,	447
LIX.—Curve of Eccentricity of the Earth's orbit; by R. W. McFARLAND,	456
LX.—On a Bolide of January 31st, that passed over Kentucky; by J. LAWRENCE SMITH,	458
LXI.—Notes on the Sensitiveness of Silver Bromide to the Green Rays as modified by the Presence of other Substances; by M. CAREY LEA,	459
LXII.—Chemical Composition of Durangite; by G. J. BRUSH,	464
LXIII.—The Geological Survey of Brazil; by C. F. HARTT,	466
LXIV.—Meteoric Stone of Waconda; by C. U. SHEPARD, Sr.,	473
LXV.—Paleozoic Subdivisions on the 40th Parallel; by CLARENCE KING,	475
LXVI.—A Nebula-photometer; by E. C. PICKERING,	482
LXVII.—On a new Sub-order of Pterosauria; by O. C. MARSH,	507
LXVIII.—Notice of new Odontornithes; by O. C. MARSH,	509

SCIENTIFIC INTELLIGENCE.

- Chemistry and Physics.*—Hydrocellulose, GIRARD, 483.—Decomposition of Stearic Acid by distillation under Pressure, JOHNSTON: Liquid Carbon Dioxide in mineral cavities, HARTLEY: Decomposition of Alcohol by Aluminum and its Iodide, GLADSTONE and TRIBE, 484.—New Method for producing Condensed Hydrocarbons, WATSON SMITH: Manganese Boride and on the Function of Manganese in Iron Metallurgy, TROOST and HAUTEFEUILLE, 485.—Occurrence of Platinum, Palladium, and Selenium in Silver coins, RÖSSLER: Conversion of Olefines into the corresponding Alcohols, BOUTLEROW, 486.—Trimethylbenzols of Coal tar Oil and their Separation from each other, JACOBSEN: Detection of Phloroglucin and Nitrites, WESELSKY: Succinic acid obtained from Active Tartaric acid, BREMER and VAN'T HOFF, 487.—Re-conversion of Paroxybenzoic acid into Salicylic acid, KUPFERBERG: New Hydro-oxy-benzoic Acid, EMMERLING and OPPENHEIM: Vicin. RITTHAUSEN: Acoustic Attractions, DVORAK, 488.—Correlation of Forces, GROVE, 489.—Change of Volume of Electric Conductors, EXNER: Proper Motion of the Stars, SECCHI, 490.
- Geology and Mineralogy.*—Paleozoic fossils from the Serpentine formation of Chaberton 491.—Eozoon Canadense: Exploration of Lake Titicaca, A. AGASSIZ 492.—Huronian South of Lake Superior, ROLAND IRVING: fossil bird from the Eocene of New Mexico, COPE: Richmond Infusorial Stratum, 493.—Carboniferous Articulates: Note on the Uinta and Wahsatch Ranges, C. KING: *Ceraurus pleurexanthemus*, of Trenton Falls, C. D. WALCOTT, 494.—Glacial phenomena in Jefferson Co., New York: Origin of the Porphyry of Marblehead, Mass., 495.—Hayden's Report for 1874, 496.—Age of Angiospermous plants referred to the Cretaceous, 497.—Swiss Paleontological Society: Geological Survey of New Jersey, COOK: Eocene Corals of Italy, 498.—Crystallography, of P. GROTH, 499.
- Zoology.*—Recent Corals from Tilibiche, Peru, A. AGASSIZ, 499.—Caspian Sea, 500.
- Astronomy.*—Transit of Venus observed in Bengal: new Planets, 501.
- Miscellaneous Scientific Intelligence.*—Atti della Reale Accademia dei Lincei, 502.—Statistics of Mines and Mining R. W. RAYMOND, 504.—National Academy of Sciences: Memoir of Caroline Herschel, 505.—Depth of the Pacific, 506. INDEX, 513.