

## Number 281.

	Page
ART. XXXIII.—Observations on the Derivation and Homologies of some Articulates; by J. D. DANA .....	325
XXXIV.—Crystallization of Herderite; by S. L. PENFIELD	329
XXXV.—Additional Note on Leucite in Sussex Co., N. J.; by J. F. KEMP .....	339
XXXVI.—Phonolitic Rocks from the Black Hills; by L. V. PIRSSON .....	341
XXXVII.—General Structure of the Main Axis of the Green Mountains; by C. L. WHITTLE .....	347
XXXVIII.—Notes on Apparatus for the Geological Laboratory; by J. E. WOLFF .....	355
XXXIX.—Diversity of the Glacial Drift along its Boundary; by W. UPHAM .....	358
XL.—Elementary Expression in Thermo-electrics; by C. BARUS .....	366
XLI.—Gases in Kilauea; by W. LIBBY, Jr. ....	371
XLII.—Simple Method of Determining the Eccentricity of a Graduated Circle with one Vernier; by F. L. O. WADSWORTH .....	373
XLIII.—Transformations of Mechanical into Chemical Energy. Third Paper. Action of Shearing Stress continued; by M. C. LEA .....	377
XLIV.—Detection and Separation of Arsenic associated with Antimony and Tin; by F. A. GOOCH and B. HODGE ..	382
XLV.—Presence of Water in Topaz; by P. JANNASCH and J. LOCKE .....	386
XLVI.—Chemical Composition and Related Physical Properties of Topaz; by S. L. PENFIELD and J. C. MINOR, Jr.	387
APPENDIX.—XLVII.—Restoration of Elotherium; by O. C. MARSH. (With Plate IX) .....	407
XLVIII.—New Miocene Mammal; by O. C. MARSH .....	409

## SCIENTIFIC INTELLIGENCE.

- Chemistry and Physics*—Effect of absorbed Hydrogen on the Electrical Properties of Palladium. BRUCCHIETTI: Determination of the Molecular Formulas of Liquids by means of their Molecular Surface Energy. RAMSAY, 396.—Manufacture of Oxygen from Calcium Plumbate, KASSNER, 398.—Base-forming Function of Iodine. V. MEYER and HARTMANN, 399.—Diminution of the force of gravity with the height, determined by weighing. F. RICHARZ and O. K. MENZEL: Law of candle flames. P. GLAN, 400.—Ring magnet for obtaining intense magnetic fields, H. DuBois, 401.
- Geology and Mineralogy*—Age of the White Limestones near Warwick, Orange Co., N. Y., J. F. KEMP and A. HOLLICK, 401.—Cretaceous Flora of Long Island, A. HOLLICK: Monograph of the Devonian Fauna of the south of England, G. F. WHIDBORNE, 402.—Topaz from Texas, G. F. KUNZ, 403.—Les Enclaves des Roches Volcanique. A. LACROIX: Laramie and the overlying Livingston Formation in Montana, with Report of Flora. W. H. WEED and F. H. KNOWLTON, 404.
- Miscellaneous Scientific Intelligence*—Bulletin of the American Museum of Natural History, 405.—Biological lectures delivered at the Marine Biological Laboratory of Wood's Holl: Star Catalogue, 406