

CONTENTS OF VOLUME XXIX.

NUMBER CLXIX.

	Page
ART. I.—Suspension and Sedimentation of Clays; by WM. H. BREWER,	1
II.—Method of illustrating the formation of Diffraction Bands; by S. T. MORELAND,	5
III.—System of Rock notation for Geological Diagrams; by JAMES D. DANA,	7
IV.—Crystalline Rocks of the Scottish Highlands; by ARCHIBALD GEIKIE,	10
V.—Great Fault, Schodack Landing, N. Y.; by S. W. FORD,	16
VI.—Cause of Mild Polar Climates; by JAMES CROLL,	20
VII.—The Amount and Rate of Chemical Erosion in the Limestone of Center Co., Pa.; by A. L. EWING,	29
VIII.—Chrysotile from Shipton, Canada; by E. G. SMITH, ..	32
IX.—Santa Catharina Meteorite; by O. A. DERBY,	33
X.—Gravels of Southern Delaware; by F. D. CHESTER, ..	36
XI.—Report of Superintendent of U. S. Coast Survey, 1883, ..	44
XII.—Combinations of Silver Chloride, Bromide and Iodide with Coloring Matters; by M. CAREY LEA,	53
XIII.—Present state of our knowledge of Refraction Equivalents; by J. H. GLADSTONE,	55
XIV.—Decay of Quartzite, Pseudo-breccia; by J. D. DANA, ..	57

SCIENTIFIC INTELLIGENCE.

- Chemistry and Physics.*—Viscosity of gases, O. SCHUMANN: Distribution of electric lighting over great distances, 59.—Heat and Electricity: Thermo-electric relations of amalgams, 60.—Elementary Text-book of Physics, W. A. ANTHONY and C. F. BRACKETT: Indexes to Chemical Literature, 61.
- Geology and Mineralogy.*—Geology of the Scottish Highlands, 62.—Chart of the ancient drift and glaciers of Switzerland, A. FAVRE, 65.—Geological Sections crossing N. Hampshire and Vermont, C. H. HITCHCOCK: Till-ridge of New Haven, 66.—Copper-bearing rocks of the Lake Superior region, 67.—Geological and Natural History Survey of Minnesota, N. H. WINCHELL: Geological Survey of Ohio, E. ORTON, 68.—Contributions to the Tertiary Geology of the U. S., A. HELPRIN: Report PPP of Geological Survey, of Pennsylvania, C. E. BEECHER: Structure of the Receptaculidæ, G. J. HINDE: Paleozoic Corals from Spitzbergen, 69.—Geology of Delaware, F. D. CHESTER: Roofing slates of Pennsylvania, P. FRAZER: Paleozoic Arachnida: E. D. COPE on Fossil Vertebrates: Brazilian Minerals, O. A. DERBY, 70.—Spodumene crystals, W. P. BLAKE, 71.—Minerals from Greenland: Synopsis Mineralogica, A. WEISBACH, 72.
- Botany and Zoology.*—Anatomy of the Phanerogams and Ferns, A. DEBARY, 72.—Living organisms at high altitudes, M. E. DE FREUDERICH, 73.—An impregnated uterus of *Echidna hystrix*, R. OWEN, 74.—Polythalamian from a Salt-pool in Transylvania, E. VON DADAY: Food of Mice, P. H. STORER, 75.—Pulmonate mollusks, W. G. BINNEY: Prodrromus Fauna: Mediterraneanæ: The Auk; Siluroid fish, R. R. WRIGHT, etc.: Development of *Renilla*, E. B. WILSON, 76.

- Astronomy.*—Abstract of a Report to the Solar Physics Committee, etc., B. STEWART, W. L. CARPENTER, 76.—Astronomical Observations at Dunsink, 78.—Zone Catalogue of the Argentine Observatory: International Conference at Washington, October, 1884, 79.
- Miscellaneous Scientific Intelligence.*—Systematic Earthquake Observations, 79.—Volcanic Phenomena of 1883, 80.—Annual Report of the Bureau of Ethnology, 81.—New England Meteorological Society, 82.—American Society for Psychical Research: American Pearls: Spaziergänge durch das Reich der Sterne, W. MEYER, 83.—Elisha Mitchell Scientific Society: Leisure Hours among the Gems, A. C. HAMLIN, 84. *Obituary.*—Hermann Kolbe, 84.