

CONTENTS OF VOLUME XXII.

NUMBER CXXVII.

	Page
ART. I.—Contributions to Meteorology; by ELIAS LOOMIS. With Plate I,	1
II.—Coal Dust as an element of danger in Mining; by H. C. HOVEY,	18
III.—Notes on Mineral Localities in North Carolina; by W. E. HIDDEN,	21
IV.—Variation in Length of a Zinc Bar at the same Temper- ature; by C. B. COMSTOCK,	26
V.—Restoration of <i>Dinoceras mirabile</i> ; by O. C. MARSH. With Plate II,	31
VI.—Torbanite or “Kerosene Shale” of New South Wales; by A. LIVERSIDGE,	32
VII.—Meteorological Researches, Part II. Cyclones, Torna- does and Waterspouts; by W. FERREL,	33
VIII.—Magnetic Observations made in Davis Strait, in August and September, 1880; by O. T. SHERMAN,	49
IX.—Crystalline form of Sipyllite; by J. W. MALLET,	52
X.—Observations on the Structure of Dictyophyton and its affinities with certain Sponges; by R. P. WHITFIELD, ..	53
XI.—Carboniferous Rocks of Southeast Kansas; by G. C. BROADHEAD,	55
XII.—Later Tertiary of the Gulf of Mexico; by E. W. HILGARD. With a map (Plate III),	58
XIII.—Dufrenite from Rockbridge County, Va.; by J. L. CAMPBELL,	65
XIV.—Turquoise of New Mexico; by B. SILLIMAN,	67

SCIENTIFIC INTELLIGENCE.

Chemistry and Physics.—Free Fluorine in Fluor Spar, LOEW: Arsenobenzene, MICHAELIS and SCHULTZE, 71.—Transformation of Dextrose into Dextrine, MUSCULUS and MEYER, 72.—Pentathionic Acid, LEWES: Photographics, E. L. WILSON, 73.—Conservation of Electricity, M. G. LIPPMANN: Inverse Electromotive force of the Voltaic arc, 74.—Stellar Photography, H. DRAPER: Weather Warnings, B. STEWART: Storing of Electricity, M. FAURE, 75.

- Geology and Natural History.*—Geology of British Columbia, G. M. DAWSON, 75.—Caribbean Miocene fossils: Geological Survey of New Jersey for 1880, 77.—Geological Survey of Pennsylvania: Geology of the Oil Regions of Warren, Venango, Clarion and Butler Counties, Pa., by J. F. CARLL: Statistics and Geology of Indiana for 1880: Illustrations of the Earth's Surface, N. S. SHALER and W. M. DAVIS, 78.—The Trilobite, C. D. WALCOTT, 79.—Geological Survey of Alabama, E. A. SMITH: Felsites and their associated rocks north of Boston, J. S. DILLER: Mémoire sur les Phénomènes d'Altération des Dépôts superficiels, E. VAN DEN BRÛCK: Application of a solution of mercuric potassium iodide in mineralogical and lithological investigations, V. GOLDSCHMIDT, 80.—Deer horns impregnated with tin ore, J. H. COLLINS, 81.—Microlite from Amelia County, Virginia: *Mya arenaria*: Rhizopods, the food of some young fishes, 82.
- Astronomy.*—Figures of the planets, 82.—Observations of the Transit of Venus, S. NEWCOMB: Observations of Double Stars made at the U. S. Naval Observatory, A. HALL, 84.
- Miscellaneous Scientific Intelligence.*—Historical Sketch of the Boston Society of Natural History, T. T. BOUVÉ, 85.—American Association at Cincinnati: On the so called Cosmical Dust, LASAULX, 86.