

NUMBER II.

	Page
ART. XII.—Observations on the Variation of the Magnetic Declination in connection with the Aurora of October 14th, 1870, etc.; by ALFRED M. MAYER,	77
XIII.—Notes on Granitic Rocks. First Part; by T. S. HUNT,	82
XIV.—On Siredon Metamorphoses, etc.; by E. D. COPE,	89
XV.—Lower Carboniferous Limestone in Ohio; by E. B. ANDREWS,	91
XVI.—Brief Contributions to Zoölogy from the Museum of Yale College. No XI. Descriptions of some imperfectly known Ascidians from New England; by A. E. VERRILL,	93
XVII.—Insects inhabiting Salt Water; by A. S. PACKARD, JR.,	100
XVIII.—On the existence of the Nummulitic formation in China; by Baron VON RICHTHOFEN,	110
XIX.—Note on the Infusoria Flagellata and the Spongiæ Ciliatæ; by H. JAMES-CLARK,	113
XX.—Mémoir of Thomas Graham; by JOSIAH P. COOKE,	115
XXI.—Note on transversely striated muscular fiber among the Gasteropoda; by W. H. DALL,	123
XXII.—Note to Article I, on the Quaternary of the New Haven Region; by J. D. DANA,	125
XXIII.—Auroral Belt of October 24th–25th, 1870,	126

SCIENTIFIC INTELLIGENCE.

Chemistry and Physics.—On the Chlorides of Sulphur, HÜBNER and GUEROUT: On the soluble and insoluble forms of Sulphur, BERTHELOT, 129.—On the remarkable changes of color produced in certain iodides by heat, MEUSEL: On Tetramethylformene, Lwow, 131.—On an aromatic glycol, GRIMAUX, 132.—On the production of solid cresol, WURTZ: On the synthesis of aromatic acids, VICTOR MEYER, 133.—On the constitution of Camphor, VICTOR MEYER, 134.—A Text-book of Elementary Chemistry, Theoretical and Inorganic, by G. F. Barker, 136.

Geology and Natural History.—A Reply to Mr. Dall's criticism on the Brachiopods as a division of the Annelids, EDWARD S. MORSE, 136.—On *Eozoon Canadense*, WM. KING and THOS. H. ROWNY, 138.—Scientific Expedition to the Rocky Mountains, Prof. O. C. MARSH, 142.—Monograph of the North American Astacidae, Dr. H. A. HAGEN, 143.—Preliminary Report on the Crustacea dredged in the Gulf Stream in the Straits of Florida, L. F. DE POURTALES, 144.—On the Mineral Constituents of Meteorites, N. S. MASKELYNE: Fossil Mammals of the Rocky Mountains collected by Dr. Hayden, J. LEIDY: Fossil Mammals from Oregon, J. LEIDY, 145.—Cretaceous and Tertiary Reptilia and Fishes: Geological Survey of Ohio: Gas Wells in Ohio, J. S. NEWBERRY, 146.—Linnæan Hypothesis of the Derivation of Species, 147.—Monograph of the Ranunculaceæ of the Dominion of Canada, GEO. LAWSON, 148.—Ersted on characters furnished by the styles in Cupulifera and Juglandæ, etc., 149.

Miscellaneous Scientific Intelligence.—Meteorological Observations on Mt. Washington, 149.—Unusual exhibition of halos: Head Waters of the Amazon; Observations on the Geography and Archeology of Peru, E. G. SQUIER, 150.—Solar Eclipse: Murchison: Balfour Stewart, 151. *Obituary.*—G. Bischof: William Chauvenet, 151.

Miscellaneous Bibliography.—Journal of the Franklin Institute: The Malay Archipelago, by A. R. WALLACE, 151.—Adventures of a Young Naturalist, by L. BIART: The Rob Roy on the Jordon, Nile, Red Sea, etc., by J. MACGREGOR, 152.

APPENDIX.—From B. A. Gould, dated Cordova, 153.