

NUMBER XCII.

	Page
ART. IX.—Forest Geography and Archæology; by A. GRAY,	85
X.—Structure and Origin of Mountains; by J. LECONTE,---	95
XI.—Occurrence of a Solid Hydrocarbon in the Eruptive Rocks of New Jersey; by I. C. RUSSELL, -----	112
XII.—On a new and remarkable mineral locality in Fairfield County, Connecticut; with a description of several new species occurring there; by G. J. BRUSH and E. S. DANA,	114
XII <i>bis.</i> —Transit of Mercury, May 5-6; by L. TROUVELOT,	124
XIII.—Discovery of a new Planet; by C. H. F. PETERS,----	129
XIV.—“Indurated Bitumen” in cavities in the trap of the Connecticut valley, from the Report of J. G. PERCIVAL,	130

SCIENTIFIC INTELLIGENCE.

Chemistry and Physics.—Underground Temperatures, 132.—Law of Solid Volumes, SCHRÖDER: Flame Temperatures, ROSETTI, 135.—Production of Ozone, Hydrogen peroxide and persulphuric acid by Electrolysis, BERTHELOT: Polyiodides, JOHNSON, 136.—Ponsælion and Cyanone, THOMPSON: Atomic Weight of Gallium, BOISBAUDRAN, 137.—Hexoylene, prepared from Mannite, HECHT: Phytosterin, HESSE, 138.

Geology and Mineralogy.—Geological results of the Polar Expedition under Sir George Nares, 139.—Paleontological results of the same, 140.—Geological Survey of Pennsylvania, 142.—Eruptive copper-bearing rocks of Lake Superior, 143.—Rock Salt at Wyoming in Western New York: Wilcox Spouting Water-Well, C. A. ASHBURNER, 144.—Superficial Geology of British Columbia, 147.—Geological Survey of Canada, 148.—Fossil Fishes from the Trias of New Jersey and Connecticut: Stromatopora, 149.—Section of the Alps, etc.: *Révue de Géologie*, 150.—Terrains Crétacés et Tertiares: *Sigillaria lepidodendrifolia* Brgt., 151.—Flora Fossilis Helvetiæ and Flora Fossilis Arctica: Mineralogy and Lithology of New Hampshire: American Minerals, KÖNIG, 152.—Rocks of Quincy: Ironite, S. PURNELL, 153.—Tridymite, 154.—Crystallization of Silica: Mineralogical Society of France: Analcite, 155.

Botany and Zoology.—Two new Fern-books, 155.—Catalogue of Phænogamous and Cryptogamous Plants, 156.—Native Flowers and Ferns in the United States: Zoological Distribution, and some of its difficulties, SCLATER, 157.—Corals of the Atlantic, 159.

Miscellaneous Scientific Intelligence.—Connecticut Academy of Arts and Sciences, 159.—National Microscopical Congress: Geographical Surveys west of the 100th Meridian, 161.—Vereinigten Staaten von Nord Amerika: Report upon Forestry, 162.—Bulletin of the Bussey Institution: The Speaking Telephone, etc.: The Naturalist's Directory: Fownes's Elementary Chemistry: Cincinnati Society of Natural History: Glaciers of the Western Himalayas, 163.—Total Solar Eclipse of July 29, 164.

Obituary.—Wm. M. Gabb: Baron von Bibra: A. von Böttingshausen, 164.