

NUMBER CXL.

| | Page. |
|---|-------|
| ART. XI.—On some phenomena of Binocular Vision; by Prof. JOSEPH LeCONTE, | 153 |
| XII.—Contributions to Chemistry from the Laboratory of the Lawrence Scientific School. No. 6.—On a new Salt containing Tin, Cæsium and Chlorine; by S. P. SHARPLES, | 178 |
| XIII.—Upon the Atomic Volumes of Liquids; by FRANK WIGGLESWORTH CLARKE, | 180 |
| XIV.—On the Occultator; by Prof. LEWIS R. GIBBES, | 191 |
| XV.—On the wave lengths of the Spectral Lines of the Ele- ments; by WOLCOTT GIBBS, | 194 |
| XVI.—On the condition of our knowledge of the Processes in Luminous Flames; by EUGENE W. HILGARD, | 218 |
| XVII.—A notice of some Manuscripts in Central American Languages; by DANIEL G. BRINTON, | 222 |
| XVIII.—Notices of New Meteoric Irons in the United States; by CHARLES UPHAM SHEPARD,..... | 230 |
| XIX.—On Nitrification; by S. W. JOHNSON, | 234 |

| | |
|--|-----|
| XX.—Geological Notes on the Andes of Ecuador; by JAMES ORTON, | 242 |
| XXI.—Observations upon Autumnal Foliage; by JOSEPH WHARTON, | 251 |
| XXII.—On a Modified Form of the Nitrate of Silver Test for Arsenic Acid; by CHARLES E. AVERY, | 255 |
| XXIII.—Notices of papers in Physiological Chemistry; by GEORGE F. BARKER. No. II. | 258 |
| XXIV.—A New Meteoric Iron—"The Wisconsin Meteorites"—with some remarks on the Widmanstätten Figures; by J. LAWRENCE SMITH, | 271 |

SCIENTIFIC INTELLIGENCE.

Physics and Chemistry.—On the wave lengths of the metallic rays, THALEN, 272.
—On spectral analyses: On a normal spectrum of the sun, FIZEAU: On the red protuberances from the surface of the sun, 273.—Further observations on the spectra of some of the stars and nebulae, etc., HUGGINS, 274.

Mineralogy and Geology.—Recherches Anatomiques et Paléontologiques pour servir à l'histoire des Oiseaux fossiles de la France, par A. MILNE EDWARDS, 276.—Report on recent Explorations in the Gibraltar Caves, by FRED. BROME, 277.—On Calamitæ and Fossil Equisetacæ, by WILLIAM CARRUTHERS: Geological Map of New Jersey, by GEORGE H. COOK: New Geological Map of Wisconsin, by I. A. LAPHAM: Reliquiæ Aquitanicæ, 279.—Gold in Scotland, 280.

Botany and Zoology.—Field, Forest, and Garden Botany, a simple introduction to the common plants of the United States east of the Mississippi, both wild and cultivated, by ASA GRAY: Are Unios sensitive to light? note by C. A. WHITE, 280.—Critical Remarks on Halcyonoid Polyps; No. 3, by A. E. VERRILL, 282.—On the Distribution of Fresh-water Fishes in the Allegheny Region of South Western Virginia, by E. D. COPE: Catalogue of the Reptiles and Batrachians found in the vicinity of Springfield, Mass., with Notices of all other Species known to inhabit the State, by J. A. ALLEN, 285.—Notes on Radiata in the Museum of Yale College, No. 6.—Review of the Corals and Polyps of the West Coast of America, by A. E. VERRILL: Annual Report of the Trustees of the Museum of Comparative Zoology, 286.

Astronomy.—Meteors in August, 1868: Le Stelle Cadenti del Periodo di Agosto, osservate in Piemonte ed in altre Contrade d'Italia nel 1868: Error in Stanley's Logarithmic Tables, 287.

Miscellaneous Scientific Intelligence.—Convention of American Philologists, 287.—Gynæcological Society, of Boston, 288.—*Obituary.*—Carl Friederich Philipp von Martius, 288.—John Cassin, 291.—Prof. Theodore Strong, 293.—James David Forbes: Dr. Hörses, 294.

Miscellaneous Bibliography.—Handbook of Chemistry, for School and Home use, by W. J. ROLFE and J. A. GILLET, 294.—Van Nostrand's Eclectic Engineering Magazine: Annual Report of the Board of Regents of the Smithsonian Institution: The Manufacturer and Builder: Blank Maps for marking the distribution of Plants and Animals, 295.—Le Naturaliste Canadien, 296.

Proceedings of Societies, etc., 296.