

## NUMBER XXVIII.

	Page
ART. XXVI.—Comparison of the mean daily range of the Magnetic Declination and the number of Auroras observed each year; by ELIAS LOOMIS,.....	245
XXVII.—Notices of Recent Earthquakes; by C. G. ROCKWOOD, Jr.,.....	260
XXVIII.—On some points in Dynamical Geology; by T. STERRY HUNT,.....	264
XXIX.—On a simple device for projecting on a screen the deflections of the needles of a Galvanometer; by ALFRED M. MAYER,.....	270
XXX.—Investigations on Parasulphobenzoic Acid; by IRA REMSEN (continued),.....	274
XXXI.—Note on the Age of the Metamorphic Rocks of Portland, Dodge county, Wisconsin; by ROLAND D. IRVING,.....	282
XXXII.—On the Oregon Borate of Lime (Cryptomorphite?); by A. W. CHASE,.....	287
XXXIII.—Explorations West of the 100th Meridian,.....	290
XXXIV.—On Footprints in the Carboniferous rocks of Western Pennsylvania; by W. D. MOORE,.....	292
XXXV.—Additional Observations on the Dinocerata; by O. C. MARSH,.....	293

## SCIENTIFIC INTELLIGENCE.

*Chemistry and Physics.*—Considerations on some Points of the Theoretic Teachings of Chemistry, CANNIZZARO, 296.—On the Relation between Vibration and Detonation, CHAMPION and PELLET, 297.—On Cœrulignone, a coloring matter from Pyroligneous acid, LIEBERMAN: On the Synthesis of Anthracene, VAN DORP, 298.—New method of preparing Alizarin, GIRARD: On the Hydrates of Monobasic fatty acids, GRIMAUD: On a Boiler Incrustation, KOENIG, 299.—Effect of Light on Selenium during the passage of an electric current, 301.

*Geology and Natural History.*—Note on the History of certain recent views in Dynamical Geology, R. MALLET, 302.—The Classification of the Pleistocene Strata of Britain and the Continent by means of the Mammalia, W. B. DAWKINS, 303.—On Glacier Motion, J. AITKEN, 305.—Note on Earthquake Waves, J. E. HILGARD: On the age of certain beds of Wyoming, LESQUEREUX, 308.—Meek on the Cretaceous in Utah: Supplementary Note on the Dinocerata, O. C. MARSH, 310.—Notice of Fossil Vertebrata from the Miocene of Virginia, LEIDY, 311.—Henry Woodward on Coal-measure Spiders: A Monograph of the Merostomata, H. WOODWARD: Naumann on Pseudomorphism, 312.—The Geological and Natural History Survey of Minnesota, N. H. WINCHELL: Large Diamond: Trautwinitz, E. GOLDSMITH, 313.—Mineralogische Notizen, F. HESSENBERG: The Sexes of Sphæroma, O. HARGER: Key to North American Birds, E. COUES, 314.—Arrangement of the Families of Fishes, T. GILL, 315.—Arrangement of the Families of Mammals, T. GILL: Fertilization in Grasses, HILDEBRAND, 316.

*Astronomy.*—Meteors of November 27th, 1872, and Biela's Comet, 317.—Meteor in Kentucky, Dec. 12th, 1872: Double meteor of Feb. 14th, 1873, 318.—Astronomical Engravings from the Observatory of Harvard College: A new method of viewing the Chromosphere: The Chromosphere visible in small telescopes: Transit of Venus in 1874, HILL, 319.—Auroral Spectrum: Reports on Encke's Comet, and other reports from the U. S. Naval Observatory, 320.—Note Spettroscopiche sul Sole, etc., P. A. SECCHI: The Astronomische Nachrichten, 321.

*Miscellaneous Scientific Intelligence.*—The California Academy of Sciences, 321.—Owens College Junior Course of Practical Chemistry, F. JONES: Ancient Stone Implements, Weapons and Ornaments of Great Britain, J. EVANS: Evolution of Life, CHAPMAN, 322.—Address before the Royal Society of New South Wales, W. B. CLARKE: Prof. Tyndall's works, 323.—*Obituary.*—Dr. John Torrey, 324.