

NUMBER XVI.

	Page
ART. XXIX.—Discovery of additional remains of Pterosauria, with descriptions of two new Species; by O. C. MARSH,	241
XXX.—On a new method of measuring the Velocity of Rotation; by A. E. DOLBEAR,	248
XXXI.—Green Mountain Geology. On the Quartzite; by J. D. DANA,	250
XXXII.—Descriptions of two new Star-fishes, and a Crinoid, from the Cincinnati group of Ohio and Indiana; by F. B. MEEK,	257
XXXIII.—Note on Recurrent Vision; by C. A. YOUNG,	262
XXXIV.—Observations on the Total Eclipse of the Sun of 1869; by C. ABBE,	264
XXXV.—Acoustical experiments; by A. M. MAYER,	267
XXXVI.—Note on a Question of Priority; by E. BILLINGS,	270
XXXVII.—The Aurora of Feb. 4, 1872; by A. C. TWINING,	273
XXXVIII.—Brief Contributions to Zoölogy from the Museum of Yale College. No. XX.—Recent additions to the Molluscan Fauna of New England and the adjacent waters, with notes on other species; by A. E. VERRILL,	281
XXXIX.—Discovery of the Dermal Scutes of Mosasauroid Reptiles; by O. C. MARSH,	290
XL.—A new method of estimating the Sun's Mass and Distance, by means of the Heating Energy of Flames; by P. E. CHASE,	292
XLI.—The Yellowstone National Park; by F. V. HAYDEN,	294

SCIENTIFIC INTELLIGENCE.

Chemistry and Physics.—On the wave-lengths of Fraunhofer's lines, DITSCHNEINER, 297.—On the spectroscopic observation of the rotation of the sun, ZÖLLNER and VOGEL: Researches on the ammoniacal compounds of Cobalt, ROSE, 299. —On some new salts of roseo-cobalt and luteo-cobalt, KROK, 300.—On the transformation of glucosides into monatomic and hexatomic alcohols, BOUCHARDAT, 301.

Geology and Natural History.—Notice of a new species of Hadrosaurus, MARSH: Corundum of North Carolina, 301.—Tusk of an Elephant or Mastodon found in Colorado, BERTHOUD: United States Geological Surveys: Second Report of the Geological Survey of Indiana, COX, 302.—Mines, Mills and Furnaces of the Pacific States and Territories, RAYMOND, 303.—Geology of Oxford and the Valley of the Thames, PHILLIPS, 304.—Papers on the Eastern and Northern Extension of the Gulf Stream: Corals and Coral Islands, DANA: Report of the Geological Survey of the State of New Hampshire, HITCHCOCK, 305.—Report of the Geological Survey of Wisconsin, MURRISH: Annual Report of the State of New Jersey for the year 1871: Das Elbthalgebirge in Sachsen: Schütz. Prodomus Monographiæ Georum, 306.—Baillon, Histoire des Plantes, 307.

Astronomy.—On the Eclipse of the Sun on Sept. 29, 1875, PAINE, 308.—Solar Eclipse of Dec. 12, 310, 312.—Prof. Young on the Eclipse observations, 314.

Miscellaneous Scientific Intelligence.—Correspondence relating to the Dismissal of the late Botanist to the Department of Agriculture, 315; Spectrum Analysis in its application to terrestrial substances, etc., SCHELLEN, 318; Kansas Academy of Science: Hunt's Green Mountain Series, 319.—*Obituary*—Dr. Wm. Baird, 319. W. H. Pease: Canon Moseley; Adolph Strecker, 320.