

NUMBER CLXXII.

	Page
ART. XXXV.—Use of Carbon bisulphide in prisms; being an account of Experiments made by the late DR. HENRY DRAPER of New York,	269
XXXVI.—The Genus <i>Pyrgulifera</i> Meek, and its Associates and Congeners; by C. A. WHITE,	277
XXXVII.—Occurrence of Native Mercury in the Alluvium in Louisiana; by E. WILKINSON,	280
XXXVIII.—Earthquakes in Spain; by C. G. ROCKWOOD, JR.	282
XXXIX.—Devonian Spores; by J. M. CLARKE,	284
XL.—Denudation of the two Americas; by T. M. READE, ..	290
XLI.—Arctic Interglacial Periods; by J. CROLL,	300
XLII.—Notes on some apparently undescribed forms of Fresh-water Infusoria, No. 2; by A. C. STOKES. With Plate III,	313
XLI.III.—Paleozoic Notes; New Genus of Cambrian Trilobites, <i>Mesonacis</i> ; by C. D. WALCOTT,	328

SCIENTIFIC INTELLIGENCE.

Chemistry and Physics.—Specific Heat of the Elements at High Temperatures, BERTHELOT and VIEILLE, 331.—Specific Heat of Water and of Carbon dioxide at High Temperatures, BERTHELOT and VIEILLE, 332.—Action of Hydrogen peroxide on the Hydrates of the rarer earths, CLÈVE: Determination of small quantities of Hydrogen sulphide in Caseous mixtures, OSMOND, 333: Atomic weight of Titanium, THORPE: Raffinose from Molasses, TOLLENS; Influence of an Electric Current in modifying the rate of thinning of a liquid film, REINOLD and RÜCKER, 334.—Conduction of Electricity in rarefied air. EDLUND: Measurement of Rotation of plane of polarization of liquids in a magnetic field, LEO ARONS: Some Physical Properties of Ice, C. TROTTER, 335.—Photographing the Solar Corona. C. RAY WOODS: Magneto- and Dynamo-Electric Machines, F. KROHN, P. HIGGS, 336.

Geology and Mineralogy.—Professor W. O. Crosby on the origin and relation of continents and ocean basins, 336.—Geology of Bermuda, W. N. RICE: C. D. Walcott on the Deer Creek Coal-field in Arizona, 338.—Crinoids with Articulating Spines. G. J. HINDE: Creation of Continents by the Ocean Currents, J. S. GRIMES: Sandstones of Taquamenon Bay, Lake Superior, N. H. WINCHELL, 339.—Grand Atlas of the Second Geological Survey of Pennsylvania, J. P. LESLEY: Map of the Dominion of Canada geologically colored from surveys made by the geological corps, 1842 to 1882, A. R. C. SELWYN: New Minerals from Colorado, W. F. HILLEBRAND, 340.—Colemanite, the new borate of lime, 341.—Kouinekite, a new hydrated phosphate of iron, M. CESÀRO: Analysis of Titanic Iron Sand from Brazil, J. B. MACKINTOSH, 342.—Mineralogical Notes, E. CLAASSEN: Minerals from Middletown, Conn., 343.

Botany and Zoology.—Origin of the Fauna and Flora of New Zealand, F. W. HUTTON, 343.

Miscellaneous Scientific Intelligence.—Part II, Vol. VII of the Transactions of the Seismological Society of Japan: Proceedings of the Colorado Scientific Society, 346.—Report on the waters of the Hudson River together with an analysis of the same, C. F. CHANDLER: Life of James Clerk Maxwell, L. CAMPBELL, 347. *Obituary.*—John Gwynn Jeffreys, 347.—Searles Valentine Wood, Jr., 348.