

Miscellaneous Scientific Intelligence.—Narrative of the North Polar Expedition, 245.—The American Meteorologist: The American Journal of Pure and Applied Mathematics: Publications of the Cincinnati Observatory: Two new Meteoric Irons: Table of Logarithms: Tenth Annual Report of the Trustees of the Peabody Museum of American Archaeology and Ethnology, 246.—Kinetic Theories of Gravitation, W. B. TAYLOR, 247.
Obituary.—Timothy Abbott Conrad, 247.—Robert Were Fox, 248.

NUMBER LXXXII.

	Page
ART. XXXIV.—On the relations of the Geology of Vermont to that of Berkshire; by J. D. DANA,	257
XXXV.—Address before the Department of Anthropology of the British Association at Plymouth; by F. GALTON,...	265
XXXVI.—Analyses of Cast Nickel, and Experiments on the combining of Carbon and Silicon with Nickel; by W. E. GARD,	274
XXXVII.—On the practical use of Autography, especially for Natural History publications; by G. O. SARS,.....	277
XXXVIII.—On the Iodates of Cobalt and Nickel; some Specific Gravity determinations; and an Analysis of Sylvanite from Colorado; by F. W. CLARKE,.....	280
XXXIX.—Notes on the Analysis of Bituminous Coal; by T. O'C. SLOANE,	286
XL.—A Preliminary Catalogue of the Reptiles, Fishes and Leptocardians of the Bermudas, with descriptions of four species of Fishes believed to be new; by G. B. GOODE, ..	289
XLI.—History of Cavern Exploration in Devonshire, England; by W. PENGELLY,.....	299

SCIENTIFIC INTELLIGENCE.

Chemistry and Physics.—Modification of Dumas's Vapor-density method, HABERMANN: Action of Phosphoric chloride on Tungstic oxide, TECLU, 309.—Production of Tartroic from Pyruvic acid, GRIMAUX: Hexyl Chloral, PINNER: Conversion of Aurin into Rosaniline, DALE and SCHORLEMMER, 310.—Hematin, CAZENEUVE: Nature of what is commonly called a "Vacuum," G. J. STONEY, 311.—Note on the Telephone, P. HIGGS, 312.

Geology and Mineralogy.—Archæan of Canada, H. G. VENNOR, 313.—Geology of New Hampshire, C. H. HITCHCOCK, 316.—Preliminary Report on the Paleontology of the Black Hills, R. P. WHITFIELD: Age of the Tejon group, California, J. G. COOPER, 321.—Fossil Tertiary Insects of Quesnel, S. H. SCUDDER: First discovered traces of Fossil Insects in American Tertiaries, S. H. SCUDDER, 322.—Geological Survey of Victoria: Tantalite, J. L. SMITH: Geognostische und geographische Beobachtungen im Staate Minnesota, J. H. KLOOS, 323.

Botany and Zoology.—Morphology of the Dentary System in the Human Race, E. LAMBERT, 323.—Arbeiten aus dem zoologische-zootomischen Institut im Würtzburg, 324.—Brain of *Chimæra monstrosa*, B. G. WILDER, 325.

Astronomy.—New Planets, J. C. WATSON: Time of Rotation of Saturn, A. HALL, 325.—The newly discovered satellites of Mars, 326.—American Ephemeris and Nautical Almanac for the year 1880: Does the Motion of the inner satellite of Mars disprove the Nebular Hypothesis? D. KIRKWOOD, 327.

Miscellaneous Scientific Intelligence.—American Association for the Advancement of Science, 328.—Distant Points visible from Mt. Washington, W. H. PICKERING, 331.—Caution to Archæologists, 333.—Handbook of Hygiene and Sanitary Science, WILSON: British Association: New Constructions in Graphical Statics, H. T. EDDY, 335.—*Obituary.*—Henry Newton, 335; Moses Strong, Adolf Erman, 336.