

## Number 83.

	Page
ART. XXXIII.—Observations on the Eruptions of 1902 of La Soufrière, St. Vincent, and Mt. Pelée, Martinique; by E. O. HOVEY. (With Plate VIII).....	319
XXXIV.—Reflection of Electric Waves at the Free End of a Parallel Wire System; by H. A. BUMSTEAD.....	359
XXXV.—Upper Permian in Western Texas; by G. H. GIRTY.....	363
XXXVI.—Reduction of Vanadic Acid by the Action of Hydrochloric Acid; by F. A. GOOCH and L. B. STOOKEY	369
JOHN WESLEY POWELL.....	377

## SCIENTIFIC INTELLIGENCE.

*Chemistry and Physics*—Combination of Hydrogen and Oxygen, BAKER: Arsenic in the Animal Organism, BERTRAND, 383.—Atomic Weight of Radium, CURIE: Double and Triple Thiocyanites, WELLS, 384.—Determination of Thallium in the Thallous State, THOMAS: Chemisches Praktikum, A. WOLFRUM: Vacuum Thermo Element, P. LEBEDEV: Electromotive Force of Ozone, A. BRAND, 385.—Influence of Electrification of the Air on Electric Sparks, E. LECHER: Reaction between Electrostatic Tubes and Insulators, M. W. DE NICOLAIÉVE: Magnetic Detector for electrical waves, MARCONI: Radiations from Radioactive Substances, RUTHERFORD and BROOKS, 386.—Induced Radioactivity in Air, J. J. THOMSON: Deviable Rays of Radioactive Substances, RUTHERFORD and GRIER: Removal of Negative Electricity from the air by falling drops of water, A. SCHMAUSS: Elements of Experimental Phonetics, E. W. SCRIPTURE, 387.

*Geology and Mineralogy*—United States Geological Survey, 389.—Iowa Geological Survey, S. CALVIN, 391.—Evolution of the northern part of the Lowlands of Southeastern Missouri, C. F. MARBUT: Geology of the Potomac Group of the Middle Atlantic Slope, W. B. CLARK and A. BIBBINS, 392.—Pleistocene Geology of Western New York, H. L. FAIRCHILD: Michigan Geological Survey, A. C. LANE: Vertebrates of the Mid-Cretaceous of the Northwest Territory, H. F. OSBORN and L. M. LAMBE: Queneau on Size of Grain in Igneous Rocks, A. C. LANE, 393.—Les Roches alcalines caractérisant la Province petrographique k' Ampasindava, A. LACROIX: Ueber mariupolit, ein extremes Glied der Elaolithsyenite, J. MOROZEWICZ, 396.—Dahamit, ein neues Ganggestein aus der Gefolgschaft des Alkaligranit, A. PELIKAN: Mineral Resources of South Dakota, C. C. O'HARRA and J. E. TODD: Occurrence of Native Arsenic, N. N. EVANS: Inverness Earthquake of September 18th, 1901, and the Carlisle Earthquake of July, 1901, C. DAVISON, 397.

*Miscellaneous Scientific Intelligence*—Beiträge zur chemischen Physiologie und Pathologie, F. HOFMEISTER: Les Dirigibles, M. H. ANDRÉ: Introduction to Physical Geography, G. K. GILBERT and A. P. BRIGHAM, 398.