

CONTENTS OF VOLUME XXXIII.

NUMBER CXCIII.

	Page
ART. I.—The Muir Glacier; by G. FREDERICK WRIGHT.....	1
II.—Age of Coal found in the region traversed by the Rio Grande; by C. A. WHITE	18
III.—The Viscosity of Steel and its Relations to Temper; by C. BARUS and V. STROUHAL (Concluded)	20
IV.—The nature and origin of Lithophysæ and the lamination of acid lavas; by J. P. IDDINGS	36
V.—The latest Volcanic Eruption in Northern California and its peculiar Lava; by J. S. DILLER	45
VI.—The Texture of Massive Rocks; by G. F. BECKER.....	50
VII.—Fifth mass of Meteoric Iron from Augusta Co., Va.; by G. F. KUNZ	58
VIII.—Note on the origin of Comets; by D. KIRKWOOD ...	60
IX.—Bichromate of Soda Cell; by S. L. HARDING.....	61

SCIENTIFIC INTELLIGENCE.

- Chemistry and Physics*—New universal chemical Spectroscope, KRÜSS, 67.—Decomposition of Glass by Capillary water-layers containing Carbonic acid. BUNSEN: Properties and Constants of Germanium, WINKLER, 68.—Distinction between spectral lines of Solar and Terrestrial origin, CORNU: New form of Galvanometer, 70.—Metallic deposits formed by electrical discharges: Electricity arising from the condensation of vapor, 71.
- Geology and Mineralogy*.—Charleston Earthquake, 71.—Naturally reduced Iron, TYRRELL: Partial Report of the Geology of Western Texas, SHUMARD and BEE, 73.—Washoe Rocks, BECKER, 75.—Volcanic Glass changed by heat alone to Pumice, 76.—North America in the Ice Period. NEWBERRY: Geological map of the United States. HITCHCOCK, 77.—Tertiary Fossils, Geological Survey of Alabama, 1886, ALDRICH and MEYER: Geological Survey of Alabama, SMITH and McCALLEY, 78.—Geological Report of New Jersey for 1885, COOK: Freshwater Invertebrates of the N. A. Jurassic, WHITE: Modern Petrography, WILLIAMS: Stromeyerite from Mexico, 79.—Stüvenite. alum from Chili: Artificial crystallized Silico-carbonate, RAMMELSBERG, 80.
- Botany and Zoology*.—Bulletin of the Congress of Botany and Horticulture at St. Petersburg, 80.—Minor Botanical Notes, 82.—Bulletin of the American Museum of Natural History, 83.
- Astronomy and Mathematics*.—Argentine General Catalogue: Theory of Magnetic Measurements with an Appendix on the method of Least Squares, NIPHER, 84.
- Miscellaneous Scientific Intelligence*.—Precious Stones in Nature. Art and Literature, BURNHAM: Transactions of the Royal Society of Canada: Journal of Morphology, 84.—Papers of the Berkshire Historical and Scientific Society, 85. *Obituary*.—ISAAC LEA.