

## Number 140.

	Page
ART. IX.—Radio-Activity of Thorium Salts; by B. B. BOLTWOOD .....	93
X.—Wave-lengths and Structural Relation of Certain Bands in the Spectrum of Nitrogen; by E. E. LAWTON .....	101
XI.—Tertiary Peneplain of the Plateau District, and Adjacent Country, in Arizona and New Mexico; by H. H. ROBINSON .....	109
XII.—Heat of Combustion of Silicon and Silicon Carbide; by W. G. MIXTER .....	130
XIII.—Vanadium Sulphide, Patronite, and its Mineral Associates from Minasragra, Peru; by W. F. HILLEBRAND ..	141
XIV.—Mineralogical Notes; by W. T. SCHALLER .....	152
XV.—Thermoelectromotive Forces of Potassium and Sodium with Platinum and Mercury; by H. C. BARKER .....	159
XVI.—Reaction between Potassium Aluminium Sulphate and a Bromide-Bromate Mixture; by F. A. GOOCH and R. W. OSBORNE .....	167
XVII.—Preparation of Formamide from Ethyl-Formate and Ammonium Hydroxide; by I. K. PHELPS and C. D. DEMING .....	173
XVIII.—Lower Middle Cambrian Transition Fauna from Braintree, Mass.; by H. W. SHIMER .....	176

## SCIENTIFIC INTELLIGENCE.

*Geology and Natural History*—Bermuda Islands. Part IV. Geology and Paleontology, A. E. VERRILL, 179.—Bermuda Islands. Part V, Section I, A. E. VERRILL: Maryland Geological Survey, Calvert County, G. B. SHATTUCK, B. L. MILLER and others, 180.—Maryland Geological Survey, St. Mary's County, G. B. SHATTUCK, B. L. MILLER and others: Geological Survey of India: Brief Descriptions of some recently described New Minerals, 181.—Chiastolite from Bimbowrie, South Australia, 183.

*Obituary*—Professor A. HELPRIN, 184.