

NUMBER XLVI.

	Page
ART. XXI.—Researches in Acoustics; by ALFRED M. MAYER,	241
XXII.—On the Thermo electrical Properties of some Minerals and their varieties; by A. SCHRAUF and EDWARD S. DANA,	255
XXIII.—On the Possible Periodic Changes of the Sun's Apparent Diameter; by SIMON NEWCOMB and EDWARD S. HOLDEN,	268
XXIV.—A New Calculating Machine; by GEORGE B. GRANT,	277
XXV.—Researches on the Hexatomic compounds of Cobalt; by WOLCOTT GIBBS,	284
XXVI.—The Mathematical and Philosophical State of the Physical Sciences; by JOSEPH LOVERING,	297

SCIENTIFIC INTELLIGENCE.

Chemistry and Physics.—Fluoxyboric Acid, BASAROW, 309.—Ozone not produced by the oxidation of the essential Oils, KINZETT, 310.—Action of the Copper-zinc Couple on the chlorides of Ethylene and Ethylidene, GLADSTONE and TRIBE, 311.

Geology and Natural History.—Notes on the new edition of Mr. Darwin's work on the Structure and Distribution of Coral Reefs (1874), by JAMES D. DANA, 312.—Mineralogical and Geological Collections of Dr. Gerard Troost: Mineralogical Contributions of G. vom Rath: Fifth Annual Report of the Geological Survey of Indiana: Palæozoic Fossils, by E. BILLINGS, 319.—Revision of the Genera and Species of the Tulipeæ, by J. G. BAKER, 320.—Asexual growth from the Prothallus of Pteris Cretica: Zizania aquatica: Botany of S. Pacific Exploring Expedition under Admiral Wilkes, 321.

Miscellaneous Scientific Intelligence.—Territorial School of Mines, Colorado: Alexander Wilson: Sixth Annual Report on the Noxious, Beneficial and other Insects of the State of Missouri, C. V. RILEY, 322.—Half Hours with Insects: British Association: Dana's Manual of Geology, 323.—*Obituary.*—Death of Prof. Jeffries Wyman, 323.