

CONTENTS OF VOLUME XLVI.

Number 271.

	Page
ART. I.—Studies of the phenomena of Simultaneous Contrast-Color; and on a Photometer for measuring the intensities of Lights of different Colors; by A. M. MAYER	1
II.—Kehoeite, a new Phosphate from Galena, Lawrence Co., S. D.; by W. P. HEADDEN	22
III.—Ammonium-Lead Halides; by H. L. WELLS and W. R. JOHNSTON	25
IV.—Rubidium-Lead Halides, and a Summary of the Double Halides of Lead; by H. L. WELLS	34
V.—The Galveston Deep Well; by E. T. DUMBLE and G. D. HARRIS	38
VI.—Iodometric Determination of the Nitrates; by H. GRUENER	42
VII.—Piedmontite and Scheelite from the Ancient Rhyolite of South Mountain, Pennsylvania; by G. H. WILLIAMS	50
VIII.—Cambrian and the Ozark Series; by G. C. BROADHEAD	57
IX.—One-Volt Standard Cell; by H. S. CARHART	60
X.—Cross Roads Meteorite; by E. E. HOWELL	67

SCIENTIFIC INTELLIGENCE.

Chemistry and Physics—Study of Chemical Reactions by means of the Refractive Index, **FÉRY**: Preparation of Chlorine by means of Nitric Acid and Manganese dioxide, **LUNGE** and **PRET**, 68.—Complex Acids containing Septivalent Iodine. **BLOMSTRAND**: Refractive Indices of liquid Oxygen, Nitrogen Monoxide and Ethylene, and on the Spectrum of liquid Oxygen, **LIVEING** und **DEWAR**, 69.—Production of Hydrogen Peroxide in the Electrolysis of Sulphuric acid, **KURLOFF**: Preparation of Pure Phosphoric oxide, **SHENSTONE** and **BECK**, 70.—Constitution of Hydroxylamine, **KOLOTOFF**, 71.—Chromophotograph, **M. MAREY**: Reflection of Electrical Waves at the extremity of a linear Conductor, **BIRKELAND**: Electrical waves and light waves, V. **BJERKNES**: New Electrometers, **BJERKNES**, 72.—Magnetic Properties of liquid Oxygen: Specific Heat of Liquid Ammonia, 73.—Value of the meter in English inches, C. B. **COMSTOCK**: Laboratory Course in Physical Measurements, W. C. **SABINE**, 74.

Geology and Mineralogy—Tertiary Revolution in the Topography of the Pacific Coast, J. S. **DILLER**, 74.—*Urnatella gracilis*, C. B. **DAVENPORT**: Lehrbuch der geologischen Formations-Kunde, **KAYSER**: Mineral Resources of the U. S., 75.—Minéralogie de la France, A. **LACROIX**: Sodalite-syenite from Montana, **LIND**, **GREY** and **MELVILLE**: Summary of Progress in Mineralogy and Petrography in 1892, W. S. **BAYLEY**: Australian Meteorite, 76.

Botany—Plants of Orizaba: Die natürlichen Pflanzenfamilien, 76.—Rainfall and Leaf-form: Turgescence and transpiration in fleshy plants, E. **ACUBERT**: Origin of Endogens from Exogens, G. **HENSLOW**, 77.

Miscellaneous Scientific Intelligence—American Association for the Advancement of Science, 78.—Australasian Association for the Advancement of Science: British Association: Owen Memorial: Die Fortentwicklung der electrischen Eisenbahn-Einrichtungen, L. **KOHLFÜRST**, 79.—Gravity Research, Determinations of Gravity with half-second Pendulums, T. C. **MENDENHALL**: Colors of Cloudy Condensation, C. **BARTS**: Outlines of Forestry, **HOUSTON**: Naples Zoölogical Station: Krantz's Catalogue of Rocks: Manual of Machine Drawing, **LOW** and **BEVIS**: Hawks and Owls of the U. S., **FISHER**, 80.