CONTENTS.

NUMBER LXXXIX.

ART. XLVII.—Research on the Absolute Unit of Electrical
Resistance; by HENRY A. ROWLAND. .................. 325
XLVIII.—Meteoric Iron from Virginia; by J. W. MALLET. 337
XLIX.—Relative Positions of the Forest Bed and associated
Drift Formations in Northeastern Iowa; by W. J. McGEE, 339
L.—Geographical and Geological Survey of the Rocky
Mountain Region, under the direction of J. W. Powell, 342
LI.—Just Intonation in Music; by H. WARD POOLE, 359
LII.—Brachiopoda in the Swedish Primordial; by S. W. FORD, 364
LIII.—On the "Geodes" of the Keokuk Formation, and the
Genus Biopalla; by SAMUEL J. WALLACE, 366
LIV.—The Coralline, or Niagara Limestone of the Appala-
chian System; by S. T. BARRETT, 370
LV.—Isopoda from New England; by OSCAR HARGER, 373
LVI.—Ammonio-argentie Iodide; by M. CAREY LEA, 379
LVII.—Fossil Passerine Bird from Colorado; by J. A. ALLEN, 381
LVIII.—Terrestrial Electrical Currents; by W. L. BROUN, 385
LIX.—Notice of New Fossil Reptiles; by O. C. MARSH, 390

SCIENTIFIC INTELLIGENCE.

Chemistry and Physics.—Specific Heat of Beryllium. NILSON and PETTERSSON: Syn-
thesis of Olefines, ELTEKOFF, 386.—Transformation of Olefine bromides into bro-
mides of radicals of the Fatty Acids, DEMOLE: Reaction of Boric acid and Borax,
etc., KLIN, 387.—Distillation of Resins and resin acids with zinc dust.
CIAMICIAN: Triacid Phenols of Wood Tar, etc., HOFMANN, 388.—Constituents of
Corallin. ZUKOWSKY: Curarine, SACII: Protection of Marine Boilers, 389.—
Boracic Acid, M. A. DITTE, 390.—Boiling Point of Iodide of Antimony. 391.—
Influence of the density of a body upon its Light-absorbing power, GLAN: Reflec-
tion of Polarized Light from the Equatorial surface of a Magnet. KERR: Method
of measuring the Velocity of Light. A. A. MICHELSON, 394.

Geology and Mineralogy.—Limestones of the Falls of the Ohio. JAMES HALL 395.
—Fossil Plants of the Auriferous Gravel Deposits of the Sierra Nevada. L.
LESQUERREUX: Fossil wood from the Keokuk formation. S. J. WALLACE: Atlas
C. KING, 396.—Geological and Geographical Atlas of Colorado. F. V. HAYDEN:
Genna Zethus, Cybele, Encrinurus and Cryptonomus. A. W. VOGDES, 397.—
Carboniferous and Upper Silurian fossils of Illinois and Indiana. C. A. WHITE:
Culm-Flora der Ostrauer und Waldenburger Schichten. D. STUR: Remains of the
Musk Ox: Three new Phosphates from Fairfield County. CONL. G. J. BRUSI and
E. S. DANA, 398.—General Principles of Mineralogy. J. H. COLLINS. 399.

Botany and Zoology.—Synoptical Flora of North America. GRAY: Bibbographical
Index to North American Botany, S. WATSON, 400.—Some points in the Morph-
ology of Primulaeae, M. T. MASTERS: Origin of Floral Activation, etc., G.
HENSBLOW, 401.—Floral Structure and Affinities of Sapotaceae, M. M. HARTOG:
North American Plants: Spore-Formation of the Monocotyledon. V. H. WITTSOBI,
402.—Non-Sexual Outgrowths on Fern Prothalli, 403.—Catalogue of the Flower-
ing Plants within thirty miles of Yale College, 404.

Astronomy.—Der Sternenhaufen χ Persei, etc., H. C. VOOGEL. 404.—American Journal

Miscellaneous Scientific Intelligence.—Driftless Region of Wisconsin. 406.—Treatise
on Chemistry. H. E. ROSCOE and C. SCHORLEMMER: Report of the Superin-
tendent of the Coast Survey for 1874: Minnesota Academy of Natural Sciences:
Matter and Motion, J. C. MAXWELL: Contributions to North American Ethnology,
S. POWERS, 407.—Obituary.—CHARLES PICKERING, 408.