Z
8647
.5
R59
1916

BIBLIOGRAPHY
OF THE
PUBLISHED WRITINGS
OF
HENRY FAIRFIELD OSBORN

FOR THE YEARS

1877-1915

CONTRIBUTIONS TO
PALÆONTOLOGY, GEOLOGY, ZOOGEOGRAPHY, ZO-
ÖLOGY, ANATOMY, REPTILIA, MAMMALIA, EVO-
LUTION, ANTHROPOLOGY, PSYCHOLOGY,
CONSERVATION, EDUCATION, AD-
MINISTRATION, BIOGRAPHY

SECOND EDITION

•
1916

8647
.5
R59
1916

CORNELL
UNIVERSITY
LIBRARY

Z8647.5 R59 1916

Bibliography of the published writings of

3 1924 029 640 426

DATE DUE

FEB 6 1974 F		
MAR - 8 2003		
GAYLORD		PRINTED IN U.S.A.

Cornell University Library

The original of this book is in
the Cornell University Library.

There are no known copyright restrictions in
the United States on the use of the text.

BIBLIOGRAPHY
OF THE
PUBLISHED WRITINGS
OF
HENRY FAIRFIELD OSBORN

FOR THE YEARS

1877-1915

PART I. CLASSIFIED BY SUBJECT
PART II. CHRONOLOGIC BIBLIOGRAPHY

SECOND EDITION

First Edition for the years 1877-1910, issued November, 1911,
Second Edition Revised for the years 1877-1915, issued November, 1916

BIBLIOGRAPHY COMPILED BY H. ERNESTINE RIPLEY

FC

A 368 494

EXCHANGES

Duplicates of many of these papers are still on hand, and the author desires to receive exchanges, especially in Vertebrate Palæontology, Mammalogy, Vertebrate Zoölogy, Evolution, and Biology, to be donated to the **Osborn Library of the American Museum.**

Address: PROF. HENRY FAIRFIELD OSBORN
American Museum of Natural History,
New York, N. Y.

ABBREVIATIONS.

Adm.	Administration.*	Geol.	Geology.
Anthr.	Anthropology.	Misc.	Miscellaneous.
Biog.	Biography.	Neur.	Neurology.
Cons.	Conservation.	Odont.	Odontology or Odontography
Corr. Geol.	Correlation, Geology.	Pal.	Palæontology.
Corr. Zoogr.	Correlation, Zoogeography.	Psych.	Psychology.
Educ.	Education.	Zoogr.	Zoogeography.
Embr.	Embryology.	Zoöl.	Zoölogy.
Evol.	Evolution. (Biol.)		

* Chiefly American Museum of Natural History and New York Zoölogical Park.

BIBLIOGRAPHY

OF THE

PUBLISHED WRITINGS

OF

HENRY FAIRFIELD OSBORN

FOR THE YEARS

1877-1915

Part I. Classified by Subject by the Author

KEY TO CLASSIFICATION BY SUBJECT

	PAGES
PALÆONTOLOGY AS A SCIENCE, AND HISTORY OF.....	5
PALÆONTOLOGY, ZOÖLOGY.....	5
PISCES.....	5
REPTILIA, CLASSIFICATION OF.....	6
REPTILIA, OSTEOLOGY OF.....	6
REPTILIA, UPPER CRETACEOUS.....	6
PELYCOSAURIA.....	6
CROCODYLIA.....	7
ICHTHYOSAURIA.....	7
DINOSAURIA, ORIGIN OF.....	7
SAUROPODA, CHARACTERS AND HABITS OF.....	7, 8
THEROPODA, CARNIVOROUS DINOSAURS.....	8
IGUANODONTIA.....	8
MOSASAURIA.....	9
MAMMALIA.....	9
PRINCIPLES OF PALÆONTOLOGY OF MAMMALIA.....	9
CLASSIFICATION OF THE MAMMALIA.....	9
ORIGIN OF THE MAMMALIA.....	9, 10
ODONTOGRAPHY OF MAMMALIA.....	10, 11
CRANIOMETRY OF MAMMALIA.....	11
LIMB MECHANISM OF MAMMALIA.....	11
MARSUPIALIA, EMBRYOLOGY, HABITS.....	12
PROTODONTA, TRIASSIC PRO-MAMMALIA.....	12
MESOZOIC MAMMALIA—TRIASSIC TO LOWER CRETACEOUS.....	12, 13
PALEOCENE MAMMALIAN FAUNA.....	13
LOWER EOCENE " ".....	13
MIDDLE EOCENE " ".....	14
UPPER EOCENE " ".....	14
OLIGOCENE " ".....	14, 15
PLEISTOCENE " ".....	15
CREODONTA, PRIMITIVE CARNIVORA.....	15
EDENTATA—GANODONTS, GLYPTODONTS, ARMADILLOS.....	15

CONDYLARTHERA, UNGULATA PRIMITIVA.....	16
AMBLYPODA—PANTOLAMBDA, CORYPHODON, DINOCERAS.....	16
HYRACOIDEA—PLIOHYRAX, SAGHATHERIUM.....	16, 17
PROBOSCIDEA.....	17
SIRENIA.....	17
ARTIODACTYLA.....	17, 18
PERISSODACTYLA, CLASSIFICATION OF.....	18
PERISSODACTYLA, EOCENE.....	18
PERISSODACTYLA, OLIGOCENE.....	18, 19
BRONTOTHERIIDÆ, TITANOTHERES, EOCENE, OLIGOCENE.....	19
ANCYLOPODA, CHALICOTHERES.....	19, 20
EQUIDÆ, HORSES, EVOLUTION AND STRUCTURE.....	20
LOPHIODONTIDÆ.....	20
RHINOCEROTIDÆ.....	21
PRIMATES.....	21
PALÆONTOLOGY, VERTEBRATE, PROGRESS OF.....	22-24
EXPLORATION FOR FOSSILS.....	24
METHODS OF RESTORATION OF EXTINCT ANIMALS.....	25
GEOLOGY.....	25
GEOLOGIC CORRELATION AND PALÆOGEOGRAPHY.....	25, 26
EVOLUTION PRINCIPLES EXEMPLIFIED IN MAMMALIA.....	27
EXTINCTION. NATURAL SELECTION.....	27
DIVERGENCE, LAW OF ADAPTIVE RADIATION.....	27
COMPARATIVE ANATOMY AND EVOLUTION PRINCIPLES.....	27
SINGLE CHARACTERS, MODES OF ORIGIN AND TRANSFORMATION.....	27, 28
HOMOMORPHY, INDEPENDENT ORIGIN OF "HOMOLOGOUS" CHARACTERS...	29
ORGANIC SELECTION THEORY.....	29
LAW OF THE FOUR INSEPARABLE FACTORS OF EVOLUTION, TETRAPLASY..	29, 30
EVOLUTION THEORY, HISTORY OF.....	30
HEREDITY THEORY, HISTORY OF.....	30, 31
EVOLUTION OF MAN.....	31
ANTHROPOLOGY.....	31
PSYCHOLOGY, HUMAN.....	31, 32
NEUROLOGY, EMBRYOLOGY.....	32
AMPHIBIA.....	32
REPTILIA, AVES.....	32
MAMMALIA.....	32, 33
CONSERVATION.....	33
SCIENTIFIC BIBLIOGRAPHY, PRINCIPLES OF.....	33
BIOGRAPHIES OF MEN OF SCIENCE.....	34-36
EDUCATION, THEORY OF.....	36, 37
EDUCATION, SCHOOL, COLLEGE, UNIVERSITY.....	37, 38
MUSEUM DEVELOPMENT, PLANS AND ADMINISTRATION.....	38-40
ZOOLOGICAL PARK, DEVELOPMENT, PLANS, EDUCATION.....	40, 41
MISCELLANEOUS.....	41
AUTOBIOGRAPHIC NOTES OF THE AUTHOR.....	41, 42

PALÆONTOLOGY AS A SCIENCE, AND HISTORY OF

- 1898 134. **The Biological Problems of To-day: Palæontological Problems.** [Discussion before the annual meeting of the American Society of Naturalists.] *Science*, N. S., Vol. vii, No. 162, Feb. 4, 1898, pp. 145-147. Evol. 20
- 1899 164. [Review.] **Vertebrate Palæontology.** Outlines of Vertebrate Palæontology for Students of Zoology, by A. Smith Woodward. *Natural Science*, Vol. xiv, No. 84, Feb., 1899, pp. 156-159. Pal. 84
- 1901 195. **The Recent Progress of Vertebrate Palæontology in America.** Introduction and Conclusions of a Lecture illustrated by Field and Museum Photographs, delivered at Trinity College, Hartford, Conn., on the Occasion of the opening of the Hall of Natural History. *Science*, N. S., Vol. xiii, No. 315, Jan. 11, 1901, pp. 45-49. Pal. 103
- 1903 224. **Report of Advisory Committee on Paleontology.** [With Henry Shaler Williams.] **Report of Advisory Committee on Zoology.** [With Edmund B. Wilson and W. K. Brooks.] *Year Book of Carnegie Institution*, No. 1, for the year 1902, Washington, Jan., 1903, pp. 174-184. Pal. 123
- 1905 264. **The Present Problems of Paleontology.** [Address before Section of Zoology of the International Congress of Arts and Science, September 22, 1904, St. Louis.] *Pop. Sci. Monthly*, Vol. lxvi, No. 3, Jan. 1905, pp. 226-242. *Congress of Arts and Science, Universal Exposition*, St. Louis, 1904, Vol. iv, June, 1906, pp. 566-585. Pal. 151
- 1905 266. **Recent Zoopaleontology.** [Abstr., lecture delivered by Professor Osborn before Society of Naturalists at the Philadelphia meeting.] *Science*, N. S., Vol. xxi, No. 530, Feb. 24, 1905, pp. 315-316. Pal. 152
- 1911 358. **Palæontology.** *The Encyclopædia Britannica*, Eleventh Edition, Vol. xx, 1911, pp. 579-591, pll. i-ii. Pal. 193
- 1912 379. (Remarks in answer to the Toast "The Academy of Natural Sciences of Philadelphia and its Relation to the Development of Palæontology in America." Address at the Meeting in Commemoration of the One Hundredth Anniversary of the Foundation of the Academy of Natural Sciences of Philadelphia held March 19, 20, 21, 1912. *Commemoration Volume, Journ. Acad. Nat. Sci. Phila.*, Vol. xv, 2d Ser. Published in Commemoration of the One Hundredth Anniversary, March 21, 1912. Issued Sept. 14, 1912, pp. xxxii-xxxv. Pal. 196
- See also 1893. 82, 1905. 267, 1910. 346.

PALÆONTOLOGY, ZOOLOGY

Pisces

- 1904 259. **The Great Cretaceous Fish *Portheus molossus* Cope.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xxxi, Oct. 15, 1904, pp. 377-381. Pal. 146

See also subject, **Vertebrate Palæontology, Progress of**, titles 1893 to date.

Reptilia, Classification of

- 1903 226. On the Primary Division of the Reptilia into two Sub-Classes, Synapsida and Diapsida. [Presented to the N. Y. Acad. of Sciences, Sec. of Biology, Feb. 9, 1903.] *Science*, N. S., Vol. xvii, No. 424, Feb. 13, 1903, pp. 275-276. Pal. 124
- 1904 238. The Reptilian Subclasses Diapsida and Synapsida and the Early History of the Diaptosauria. *Mem. Amer. Mus. Nat. Hist.*, Vol. i, Pt. viii, Nov. 1903, pp. 451-507. Abstr. *Amer. Naturalist*, Vol. xxxviii, No. 446, Feb., 1904, pp. 93-115. Pal. 130
- 1905 265. The American Palæontological Society Section A—Vertebrata [Discussion of the Phylogeny and Classification of the Reptilia]. *Science*, N. S., Vol. xxi, No. 530, Feb. 24, 1905, pp. 294-296. Pal. 153
- 1905 273. The Classification of the Reptilia. [Read before N. Y. Acad. Sci., Jan. 11, 1904.] *Ann. N. Y. Acad. Sci.*, Vol. xvi, No. 7, Aug. 2, 1905, pp. 302-303. Pal. 159

Reptilia, Osteology of

- 1900 178. Intercentra and Hypapophyses in the Cervical Region of Mosasaurs, Lizards and Sphenodon. *Amer. Naturalist*, Vol. xxxiv, No. 397, Jan., 1900, pp. 1-7. Abstr. *Ann. N. Y. Acad. Sci.*, Vol. xii, No. 15, June 2, 1900, p. 680. Pal. 95
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

Upper Cretaceous Reptilia

- 1902 217. On Vertebrata of the Mid-Cretaceous of the North West Territory. 1. Distinctive Characters of the Mid-Cretaceous Fauna, by Henry Fairfield Osborn. 2. New Genera and Species from the Belly River Series (Mid-Cretaceous) by Lawrence M. Lambe. *Contributions to Canadian Palæontology*, Vol. iii (4to), Pt. ii, Ottawa, Sept., 1902, pp. 1-81, pll. i-xxi. Pal. 118
- 1902 218. Recent Zoopaleontology. New Vertebrates of the Mid-Cretaceous. *Science*, N. S., Vol. xvi, No. 408, Oct. 24, 1902, pp. 673-676. Pal. 119
- 1903 228. Recent Zoopaleontology. Age of the Typical Judith River Beds. *Science*, N. S., Vol. xvii, No. 426, Feb. 27, 1903, pp. 356-357. Pal. 126
- 1903 229. On the Age of the Belly River Series or Formation in Canada. *The Ottawa Naturalist*, Vol. xvi, No. 11, Feb., 1903, pp. 227-228. Pal. 127
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

Pelycosauria

- 1907 297. A Mounted Skeleton of Naosaurus, a Pelycosaur from the Permian of Texas. *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiii, Art. xiv, Mar. 30, 1907, pp. 265-270. Pal. 175

Crocodilia

- 1904 256. *Teleorhinus browni*—A Teleosaur in the Fort Benton. *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xxi, July 1, 1904, pp. 239–240. Pal. 143
See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

Ichthyosauria

- 1905 262. Fossil Wonders of the West, Ichthyosaurs, The Evolution of Fitness in Ichthyosaurs. *The Century Magazine*, Vol. lxi, No. 3, January, 1905, pp. 414–424. Pal. 149
See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

DINOSAURIA, Origin of

- 1900 189. Reconsideration of the Evidence for a Common Dinosaur-Avian Stem in the Permian. *Amer. Naturalist*, Vol. xxxiv, No. 406, Oct., 1900, pp. 777–799. Pal. 98

Sauropoda, Characters and Habits of

- 1898 150. Additional Characters of the Great Herbivorous Dinosaur *Camarasaurus*. *Bull. Amer. Mus. Nat. Hist.*, Vol. x, Art. xii, June 4, 1898, pp. 219–233. Pal. 74
1898 157. On Some Additional Characters of *Diplodocus*. *Abstr. Science*, N. S., Vol. viii, No. 207, Dec. 16, 1898, p. 880. Pal. 80
1899 162. On Some Additional Characters of *Diplodocus*. [Read before N. Y. Acad. Sci., Nov. 14, 1898.] *Ann. N. Y. Acad. Sci.*, Vol. xi, No. 22, Jan. 18, 1899, p. 487. *Science*, N. S., Vol. ix, No. 218, Mar. 3, 1899, pp. 315–316. Pal. 82
1899 174. A Skeleton of *Diplodocus*. *Mem. Amer. Mus. Nat. Hist.*, Vol. i, Pt. v, Oct. 25, 1899, pp. 191–214, pll. xxiv–xxviii. *Abstr. A Skeleton of Diplodocus Recently Mounted in the American Museum. Science*, N. S., Vol. x, No. 259, Dec. 15, 1899, pp. 870–874. Pal. 91
1899 175. Fore and Hind Limbs of Carnivorous and Herbivorous Dinosaurs from the Jurassic of Wyoming. *Dinosaur Contributions No. 3. Bull. Amer. Mus. Nat. Hist.*, Vol. xii, Art. xi, Oct. 30, 1899, pp. 161–172. Pal. 92
1901 199. Fore and Hind Limbs of Sauropoda from the Bone Cabin Quarry. [With Walter Granger.] *Bull. Amer. Mus. Nat. Hist.*, Vol. xiv, Art. xiii, July 9, 1901, pp. 199–208. Pal. 105
1901 204. [Review of J. B. Hatcher's memoir on *Diplodocus* Marsh in *Mem. Carnegie Mus.*, Vol. I.] *Science*, N. S., Vol. xiv, No. 353, Oct. 4, 1901, pp. 531–532. Pal. 109
1904 248. Recent Zoopaleontology. The Sauropoda. *Science*, N. S., Vol. xix, No. 476, Feb. 12, 1904, pp. 271–272. Pal. 138
1904 255. Manus, Sacrum, and Caudals of Sauropoda. *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xiv, May 28, 1904, pp. 181–190. Pal. 142

- 1904 258. **Fossil Wonders of the West, the Dinosaurs of the Bone-Cabin Quarry, Being the First Description of the Greatest "Find" of Extinct Animals Ever made.** *Century Magazine*, Vol. lxxviii, No. 5, September, 1904, pp. 680-694. Pal. 145
- 1905 275. **Skull and Skeleton of the Sauropodous Dinosaurs, Morosaurus and Brontosaurus.** *Science*, N. S., Vol. xxii, No. 560, Sept. 22, 1905, pp. 374-376. Pal. 161
- 1906 280. **The Skeleton of Brontosaurus and Skull of Morosaurus.** *Nature*, Vol. 73, No. 1890, Jan. 18, 1906, pp. 282-284. Pal. 165
See also subject, **Vertebrate Palæontology, Progress of, titles 1893 to date.**

Theropoda, Carnivorous Dinosaurs

- 1903 234. **Ornitholestes hermanni, a New Compsognathoid Dinosaur from the Upper Jurassic.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xix, Art. xii, July 23, 1903, pp. 459-464. Pal. 128
- 1903 241. **The Skull of Creosaurus.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xix, Art. xxxi, Dec. 24, 1903, pp. 697-701. Pal. 133
- 1905 276. **Tyrannosaurus and Other Cretaceous Carnivorous Dinosaurs.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xxi, Art. xiv, Oct. 4, 1905, pp. 259-265. Pal. 162
- 1906 284. **Tyrannosaurus, Upper Cretaceous Carnivorous Dinosaur.** (Second Communication.) *Bull. Amer. Mus. Nat. Hist.*, Vol. xxii, Art. xvi, July 30, 1906, pp. 281-296. Editorial abstr. *Nature*, Vol. 74, No. 1921, Aug. 23, 1906, p. 416. Pal. 168
- 1912 380. **Crania of Tyrannosaurus and Allosaurus.** (Tyrannosaurus Contributions No. 3.) *Mem. Amer. Mus. of Natural Hist.*, N. S., Vol. i, Pt. i, June, 1912, pp. 1-30, Pl. i-iv, figs. 1-27. Pal. 197
- 1913 392. **Tyrannosaurus, Restoration and Model of the Skeleton.** *Bull. Amer. Mus. Natural Hist.*, Vol. xxxii, Art. iv, Apr. 11, 1913, pp. 91-92, pll. iv-vi. Pal. 200
See also subject, **Vertebrate Palæontology, Progress of, titles 1893 to date.**

Iguanodontia

- 1909 330. **The Epidermis of an Iguanodont Dinosaur.** *Science*, N. S., Vol. xxix, No. 750, May 14, 1909, pp. 793-795. Pal. 183
- 1909 334. **The Upper Cretaceous Iguanodont Dinosaurs.** *Nature*, Vol. 81, No. 2075, Aug. 5, 1909, pp. 160-162. Pal. 185
- 1911 350. **A Dinosaur Mummy.** *Amer. Mus. Journal*, Vol. xi, No. 1, Jan., 1911, pp. 7-11. Pal. 192
- 1912 381. **Integument of the Iguanodont Dinosaur Trachodon.** *Mem. Amer. Mus. of Natural Hist.*, N. S., Vol. i, Pt. ii, June, 1912, pp. 33-54, Pl. v-x, figs. 1-13. Pal. 198
See also subject, **Vertebrate Palæontology, Progress of, titles 1893 to date.**

Mosasauria

- 1899 168. [Abstr.] [Upon the Structure of *Tylosaurus dyspelor*.] [Read before N. Y. Acad. Sci., Mar. 8, 1899.] *Science*, N. S., Vol. ix, No. 235, June 30, 1899, p. 913. *Ann. N. Y. Acad. Sci.*, Vol. xii, No. 15, June 2, 1900, p. 660. Pal. 87
- 1899 173. A Complete Mosasaur Skeleton, Osseous and Cartilaginous. *Mem. Amer. Mus. Nat. Hist.*, Vol. i, Pt. iv, Oct. 25, 1899, pp. 167-189, pll. xxi-xxiii. Abstr. *Science*, N. S., Vol. x, No. 260, Dec. 22, 1899, pp. 919-925. Pal. 90
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

MAMMALIA

Principles of Palæontology of Mammalia

- 1893 82. Rise of the Mammalia in North America. [Vice-Presidential Address Before the American Association for the Advancement of Science. Section of Zoölogy, Madison, Wis., Aug. 17, 1893.] Abstr. *Nature*, Vol. 48, No. 1246, Sept. 14, 1893, p. 462. *Amer. Journ. Sci.*, 3d Ser., Vol. xlv, No. 275, Nov., and No. 276, Dec., 1893, pp. 379-392, 448-466, pll. v-x. *Proc. Amer. Assoc. Adv. Science*, Vol. 42, 1894, pp. 189-227 (meeting Aug., 1893, Madison, Wis.). *Studies from the Biol. Laboratories of Columbia College*, Vol. i, No. 2, 1893, pp. 61-103. Pal. 43
- 1905 267. Ten Years' Progress in the Mammalian Palæontology of North America. *Comptes rendus du 6me Congrès intern. de Zoologie*, Session de Berne, 1904, May 25, 1905, pp. 86-113, pll. i-xv. *American Geologist*, Vol. xxxvi, No. 4, Oct., 1905, pp. 199-229. Pal. 154
- 1910 346. THE AGE OF MAMMALS IN EUROPE, ASIA AND NORTH AMERICA. 8vo, The Macmillan Company, New York, Oct. 25, 1910, pp. 635. German Edition, Dr. W. O. Dietrich, editor, *in press*. Pal. 189.

Classification of the Mammalia

- 1894 89. A Division of the Eutherian Mammals into the Mesoplacentalia and Cenoplacentalia [terms subsequently altered to *Meseutheria* and *Ceneutheria*.] *Trans. N. Y. Acad. Sci.*, Vol. xiii, June 4, 1894, pp. 234-237. Pal. 45
- 1907 307. [Abstr.] The Reclassification of the Mammalia. [Read before N. Y. Acad. Sci., Nov. 13, 1905.] *Ann. N. Y. Acad. Sciences*, Vol. xvii, Pt. iii, Dec. 1907, pp. 611-613. Pal. 178
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date. Also Appendix, Age of Mammals, 1910.

Origin of the Mammalia

- 1898 133. [Abstr.] [The Origin of the Mammalia.] *Ann. N. Y. Acad. Sci.*, Vol. xi, Jan. 10, 1898, p. 447. Pal. 62

- 1898 136. [Origin of the Mammalia.] Discussion before Amer. Soc. of Naturalists. *Science*, N. S., Vol. vii, No. 162, Feb. 4, 1898, pp. 176-178. Pal. 63
- 1898 146. The Origin of the Mammalia [I]. [Address before Brit. Assoc. Adv. Sci., Toronto meeting, and in full before N. Y. Acad. of Sciences, Jan. 10, 1898.] *Amer. Naturalist*, Vol. xxxii, No. 377, May, 1898, pp. 309-334. *Abstr. Ann. N. Y. Acad.*, Vol. xi, No. 22, Jan. 18, 1899, p. 447. Pal. 71
- 1898 154. [Origin of the Mammalia.] Abstract of remarks at the International Congress of Zoologists, Cambridge, England. *Science*, N. S., Vol. viii, No. 194, Sept. 16, 1898, p. 358. *N. Y. Tribune*, Sept. 18, 1898. Pal. 77
- 1899 165. Origin of Mammals. [Opening discussion in conjunction with Professor H. G. Seeley before the International Congress of Zoologists at Cambridge, August 25, 1898.] *Proc. 4th Intern. Cong. Zool.*, 1899, pp. 70-71, 413-419. Pal. 85
- 1900 166. [II.] *Abstr. Amer. Journ. Sci.*, 4th Ser., Vol. vii [Whole Number, clvii], No. 38, Art. xi, Feb., 1899, pp. 92-96. See also paper on this subject in *Amer. Naturalist*, Vol. xxxiv, No. 408, Dec., 1900, pp. 943-947. Pal. 86
- 1900 191. Origin of the Mammalia, III. Occipital Condyles of Reptilian Tri-partite Type. [Presented before Section of Zoölogy, American Association for the Advancement of Science, June, 1900.] *Amer. Naturalist*, Vol. xxxiv, No. 408, Dec., 1900, pp. 943-947. Pal. 100
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

Odontography of Mammalia

- 1887 33. The Origin of the Tritubercular Type of Mammalian Dentition. *Science*, Vol. x, No. 254, Dec. 16, 1887, p. 300. Pal. 13
- 1888 43. The Nomenclature of the Mammalian Molar Cusps. *Amer. Naturalist*, Vol. xxii, No. 262, Oct., 1888, pp. 926-928. Odont. 1
- 1888 45. The Evolution of Mammalian Molars to and from the Tritubercular Type. *Amer. Naturalist*, Vol. xxii, No. 264, Dec., 1888, pp. 1067-1079. *Abstr. Rept. Brit. Assoc. Adv. Sci.*, 1889 (58th meeting, Bath, 1888), p. 660. Odont. 2
- 1892 59. Nomenclature of Mammalian Molar Cusps. *Amer. Naturalist*, Vol. xxvi, No. 305, May, 1892, pp. 436-437. Odont. 3
- 1892 63. [Review.] Odontogenesis in the Ungulates. *Amer. Naturalist*, Vol. xxvi, No. 307, July, 1892, pp. 621-623. Odont. 4
- 1892 68. The History and Homologies of the Human Molar Cusps. *Anat. Anz.*, vii Jahrg., Nos. 23, 24, 1892, pp. 740-747. Odont. 5
- 1893 80. Recent Researches upon the Succession of Teeth in Mammals. *Amer. Naturalist*, Vol. xxvii, No. 318, June, 1893, pp. 493-508. *Abstr. Trans. N. Y. Acad. Sci.*, Vol. xii, June 6, 1893, pp. 187-188. *Nature*, Vol. 48, No. 1236, July 6, 1893, p. 238. Odont. 6

- 1895 100. **The History of the Cusps of the Human Molar Teeth.** [Address at the Founding of the New York Institute of Stomatology.] *International Dental Journal*, July, 1895, pp. 1-26, pl. AA. **Odont. 7**
- 1897 119. **The Origin of the Teeth of the Mammalia.** [Relations of the Triconodonta and Protodonta, Osborn, Multituberculata, Cope, to the South African Cynodontia and Gomphodontia, described by Seeley.] *Science*, N. S., Vol. v, No. 119, April 9, 1897, pp. 576-577. **Pal. 56**
- 1897 124. **Homologies and Nomenclature of the Elements of the Molar Teeth.** *Science*, N. S., Vol. vi, No. 142, Sept. 17, 1897, p. 436. *Abstr. Proc. Amer. Assoc. Adv. Sci.*, Vol. xlv, June, 1898 (meeting of Aug., 1897), p. 238. **Odont. 8**
- 1897 131. **Trituberculy: A Review Dedicated to the Late Professor Edward D. Cope.** *Amer. Naturalist*, Vol. xxxi, No. 138, Dec., 1897, pp. 893-1016. **Odont. 9**
- 1904 250. **Paleontological Evidence for the Original Tritubercular Theory.** *Amer. Journ. Sci.*, 4th Ser., Vol. xvii [Whole No. clxvii], No. 100, Art. xxix, Apr., 1904, pp. 321-323, pl. xxi. **Odont. 10**
- 1907 301. **EVOLUTION OF MAMMALIAN MOLAR TEETH TO AND FROM THE TRIANGULAR TYPE.** Including Collected and Revised Researches on Trituberculy and New Sections on the Forms and Homologies of the Molar Teeth in the Different Orders of Mammals. 8vo, The Macmillan Company, New York and London, Sept., 1907, 250 pp. Edited by Dr. W. K. Gregory. **Odont. 11**
- See also subject, **Vertebrate Palæontology, Progress of**, titles 1893 to date.

Craniometry of Mammalia.

- 1902 207. **Dolichocephaly and Brachycephaly in the Lower Mammals.** [Read before N. Y. Acad. Sci., Nov. 11, 1901.] *Bull. Amer. Mus. Nat. Hist.*, Vol. xvi, Art. vii, Feb. 3, 1902, pp. 77-89. *Abstr. Ann. N. Y. Acad. Sci.*, Vol. xiv, No. 5, Mar. 4, 1902, p. 147. **Pal. 112**
- 1913 368. **Skull Measurements in Man and the Hoofed Mammals.** *Science*, N. S., Vol. xxxv, No. 902, Apr. 12, 1912, p. 596. *Ann. N. Y. Acad. Sci.*, Vol. xxii, Apr. 20, 1913, pp. 341-342. **Anthr. 4**
- 1912 382. **Craniometry of the Equidæ.** *Mem. Amer. Mus. of Natural Hist.*, N. S., Vol. i, Pt. iii, June, 1912, pp. 57-100, figs. 1-17. **Pal. 199**
- See also subject, **Vertebrate Palæontology, Progress of**, titles 1893 to date.

Limb Mechanism of Mammalia

- 1895 99. **Joints in the Vertebrate Skeleton.** [Review of "The Origin of the forms of Joints in the Vertebrate Skeleton," by Gustav Tornier, 1895.] *Science*, N. S., Vol. i, No. 21, May 24, 1895, pp. 581-582. **Pal. 49**
- 1900 181. **The Angulation of the Limbs of Proboscidea, Dinocerata, and Other Quadrupeds in Adaptation to Weight.** *Amer. Naturalist*, Vol. xxxiv, No. 398, Feb., 1900, pp. 89-94. **Pal. 97**

Marsupialia, Embryology, Habits

- 1883 13. Observations upon the Foetal Membranes of the Opossum and other Marsupials. *Quart. Journ. Micros. Sci.*, Vol. xxiii, N. S., 1883, pp. 473-484. Abstr. *Proc. Amer. Assoc. Adv. Sci.*, Vol. xxxvi, Mar., 1888 (meeting of Aug., 1887), pp. 261-262. Abstr. *Science*, Vol. 1, No. 16, May 25, 1883, pp. 451-452. **Embr. 2**
- 1887 34. The Foetal Membranes of the Marsupials. *Journ. of Morphology*, Vol. i. No. 2, Dec., 1887, pp. 373-382, pl. xvii. **Embr. 3**
- 1898 141. A Placental Marsupial. *Science*, N. S., Vol. vii, No. 170, April 1, 1898, pp. 454-456. **Embr. 4**
- 1899 163. Habits of Thylacoleo. *Amer. Naturalist*, Vol. xxxiii, No. 386, Feb., 1899, pp. 174-175. **Pal. 83**
- 1904 249. [Resting Position of the Tasmanian Wolf.] *Nature*, Vol. 69, No. 1799, Apr. 21, 1904, p. 587. **Zoöl. 5**
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

Protodonta, Triassic Pro-Mammalia

- 1886 26. Observations upon the Upper Triassic Mammals, Dromatherium and Microconodon. *Proc. Acad. Nat. Sci. Phila.*, Vol. xxxviii, Pt. iii, Oct.-Dec., 1886, pp. 359-363. **Pal. 7**
- 1887 35. The Triassic Mammals, Dromatherium and Microconodon. *Proc. Amer. Phil. Soc.*, Vol. xxiv, No. 125, Jan.-June, 1887, pp. 109-111, 1 pl. **Pal. 14**
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

Mesozoic Mammalia—Triassic to Lower Cretaceous

- 1887 28. A Pineal Eye in the Mesozoic Mammalia. *Science*, Vol. ix, No. 208, Jan. 28, 1887, p. 92. **Pal. 9**
- 1887 29. The Pineal Eye in Tritylodon. *Science*, Vol. ix, No. 209, Feb. 4, 1887, p. 114. **Pal. 10**
- 1887 32. Note upon the Genus Athrodon. *Amer. Naturalist*, Vol. xxi, No. 11, Nov., 1887, p. 1020. **Pal. 12**
- 1887 36. [Abstr.] On the Structure and Classification of the Mesozoic Mammalia. *Proc. Acad. Nat. Sci. Phila.*, Vol. xxxix, Pt. ii, Apr.-Aug., 1887, pp. 282-292 (published, Nov., 1887). **Pal. 15**
- 1888 38. The Mylohyoid Groove in the Mesozoic and Recent Mammalia. *Amer. Naturalist*, Vol. xxii, No. 253, Jan., 1888, pp. 75-76. **Pal. 17**
- 1888 40. A Review of Mr. Lydekker's Arrangement of the Mesozoic Mammalia, *Amer. Naturalist*, Vol. xxii, No. 255, Mar., 1888, pp. 232-236. **Pal. 18**
- 1888 42. On the Structure and Classification of the Mesozoic Mammalia. *Journ. Acad. Nat. Sci. Phila.*, Vol. ix, 2d ser., Art. v, July 25, 1888, pp. 186-265, pll. viii, ix. Abstr. *Nature*, Vol. xxxviii, Oct. 25, 1888, pp. 611-614. **Pal. 19**

- 1888 44. Additional Observations upon the Structure and Classification of the Mesozoic Mammalia. *Proc. Acad. Nat. Sci. Phila.*, Vol. xl, Pt. iii, Oct.-Dec., 1888, pp. 292-301, pll. xxv, xxvi. Pal. 20
- 1891 55. A Review of the Cretaceous Mammalia. [Review of Marsh's "Discovery of the Cretaceous Mammalia" Pts. I and II. (*Amer. Journ. Sci.*, Vol. xxxviii, 3d Ser. (whole No. cxxxviii), 1889, No. 223, pp. 81-90, No. 224, pp. 177-180).] Presented to the Soc. of Morphologists, Boston, Dec. 30, 1890, to the Acad. of Natural Sciences of Philadelphia, Tuesday, Jan. 20, 1891, to the Biological Society of Washington, Feb. 6, 1891. Abstr. *Am. Naturalist*, Vol. xxv, No. 289, Jan., 1891, pp. 44-45. *Proc. Acad. Nat. Sci. Phila.*, Vol. xliii, Apr. 15, 1891, pp. 124-135. *Amer. Naturalist*, Vol. xxv, No. 295, July, 1891, pp. 595-611. Pal. 24
- 1891 56. A Reply to Professor Marsh's "Note on Mesozoic Mammalia." *Amer. Naturalist*, Vol. xxv, No. 297, Sept., 1891, pp. 775-783. Pal. 25
- 1892 64. [Abstr.] A Reply to Professor Marsh's "Note on Mesozoic Mammalia." *Proc. Amer. Assoc. Adv. Sci.*, Vol. xl, July, 1892, p. 290 (meeting of Aug., 1891). Pal. 30
- 1893 85. Fossil Mammals of the Upper Cretaceous Beds. *Bull. Amer. Mus. Nat. Hist.*, Vol. v, Art. xvii, Dec. 15, 1893, pp. 311-330, pll. vii-viii. Pal. 44

See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

Palæocene Mammalian Fauna

- 1890 52. A Review of the Cernaysian Mammalia. [Upon the Collection of M. Lemoine, Rheims, France.] *Proc. Acad. Nat. Sci. Phila.*, Vol. xlii, May 13, 1890, pp. 51-62. Pal. 23
- 1895 95. Fossil Mammals of the Puerco Beds. Collection of 1892. [With Charles Earle.] *Bull. Amer. Mus. Nat. Hist.*, Vol. vii, Art. i, Mar. 8, 1895, pp. 1-70. Pal. 47

See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

Lower Eocene Mammalian Fauna

- 1892 67. Fossil Mammals of the Wahsatch and Wind River Beds. Collection of 1891. [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. iv, Art. xi, Oct. 20, 1892, pp. 81-147. Pal. 32
- 1897 126. The Huerfano Lake Basin, Southern Colorado, and its Wind River and Bridger Fauna. *Bull. Amer. Mus. Nat. Hist.*, Vol. ix, Art. xxi, Oct. 20, 1897, pp. 247-258. Pal. 59
- 1897 129. Wind River and Bridger Beds in the Huerfano Lake Basin. [Read before Amer. Assoc. Adv. Sci., Detroit, Aug., 1897.] *Amer. Naturalist*, Vol. xxxi, No. 371, Nov., 1897, pp. 966-968. Pal. 60
- 1898 152. Wasatch and Bridger Beds in the Huerfano Lake Basin. *Proc. Amer. Assoc. Adv. Sci., Section Zool.*, Vol. xlvi, June, 1898, pp. 205-206. Pal. 76

See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

Middle Eocene Mammalian Fauna

- 1878 3. **Palæontological Report of the Princeton Scientific Expedition of 1877.** [With W. B. Scott and Francis Speir, Jr.] *Contr. E. M. Mus. of Geol. and Archæol. Princeton Coll.* [Coll. of New Jersey] No. 1, Sept. 1, 1878, pp. 7-106, pll. A and i-x. **Pal. 1**
See also subject, **Vertebrate Palæontology, Progress of, titles 1893 to date.**

Upper Eocene Mammalian Fauna

- 1887 37. **Preliminary Report on the Vertebrate Fossils of the Uinta Formation collected by the Princeton Expedition of 1886.** [With W. B. Scott.] *Proc. Amer. Phil. Soc.*, Vol. xxiv, No. 126, July-Dec., 1887, pp. 255-264. **Pal. 16**
- 1890 51. **The Mammalia of the Uinta Formation.** [Parts i and ii, Scott; Parts iii and iv, Osborn.] III. **The Perissodactyla.** IV. **The Evolution of the Ungulate Foot.** *Trans. Amer. Phil. Soc.*, N. S., Vol. xvi, Pt. iii, 1890, pp. 461-572, pll. vii-x. *Abstr. Nature*, by R. L., Vol. 43, No. 1104, Dec. 25, 1890, pp. 177-179. **Pal. 22**
- 1895 98. **Fossil Mammals of the Uinta Basin. Expedition of 1894.** *Bull. Amer. Mus. Nat. Hist.*, Vol. vii, Art. ii, May 18, 1895, pp. 71-105. **Pal. 48**
See also subject, **Vertebrate Palæontology, Progress of, titles 1893 to date.**

Oligocene Mammalian Fauna

- 1887 30. **Preliminary Account of the Fossil Mammals from the White River Formation contained in the Museum of Comparative Zoology.** [With W. B. Scott.] *Bull. Mus. of Comp. Zool.*, Vol. xiii, No. 5, Sept., 1887, pp. 151-171, pll. i-ii. **Pal. 11**
- 1890 50. **Preliminary Account of the Fossil Mammals from the White River and Loup Fork Formations, contained in the Museum of Comparative Zoology, Part II.** [Carnivora and Artiodactyla by Scott, Perissodactyla by Osborn.] *Bull. Mus. of Comp. Zool.*, Vol. xx, No. 3, Nov., 1890, pp. 65-100, pll. i-iii. **Pal. 21**
- 1894 90. **Fossil Mammals of the Lower Miocene White River Beds. Collection of 1892.** [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. vi, Art. vii, July 28, 1894, pp. 199-228, pll. ii-iii. **Pal. 46**
- 1895 102. **Vertebrate Paleontology in the American Museum.** *Science*, N. S., Vol. ii, No. 33, Aug. 16, 1895, pp. 178-179. **Pal. 50**
- 1898 155. **Senff Zoological Expedition to the Nile Valley.** *Science*, N. S., Vol. viii, No. 199, Oct. 21, 1898, pp. 541-542. **Pal. 78**
- 1907 292. **The American Museum Expedition to the Fayûm Desert.** *The Nation*, Vol. 84, No. 2177, Mar. 21, 1907, pp. 271-272. *The N. Y. Evening Post*, Mar. 21, 1907, p. 14. **Pal. 171**
- 1907 293. **The Fayûm Expedition of the American Museum.** *Science*, N. S., Vol. xxv, No. 639, Mar. 29, 1907, pp. 513-516. **Pal. 172**

- 1908 312. **New Fossil Mammals from the Fayûm Oligocene, Egypt.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiv, Art. xvi, Mar. 25, 1908, pp. 265-272. Pal. 179
- 1909 336. **New Carnivorous Mammals from the Fayûm Oligocene, Egypt.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xxvi, Art. xxviii, Sept. 9, 1909, pp. 415-424. Pal. 186
- See also subject, **Vertebrate Palæontology, Progress of**, titles 1893 to date.

Pleistocene Mammalian Fauna

418. **Review of the Pleistocene of Europe, Asia and Northern Africa.** [Revision for German ed. of author's work "The Age of Mammals."] *Ann. N. Y. Acad. Sci.*, Vol. XXVI, July 30, 1915, pp. 215-315, 20 text figs. Corr. Geol. 4
422. **Men of the Old Stone Age, Their Environment, Life, and Art.** Hitchcock Lectures of the University of California. Delivered at Berkeley, Feb., 1914. 8vo. Chas. Scribner's Sons, Nov. 24, 1915, 545 pp., pls. I-VIII, 268 text figs. 2d ed. with slight alterations, Jan. 28, 1916. Anthr. 6
- See also subject, **Vertebrate Palæontology, Progress of**, titles 1893 to date.

Creodonta, Primitive Carnivora

- 1892 60. **Palæonictis in the American Lower Eocene.** *Nature*, Vol. 46, No. 1176, May 12, 1892, p. 30. Pal. 27
- 1892 71. **Sur La Découverte du Palæonictis en Amérique.** *Bull. Soc. Géol. de France*, Sér. 3, T. xx, No. 7, 1892, pp. 434-436. Pal. 34
- 1900 193. **Oxyæna and Patriofelis Restudied as Terrestrial Creodonts.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xiii, Art. xx, Dec. 21, 1900, pp. 269-281. Pal. 102
- See also subject, **Vertebrate Palæontology, Progress of**, titles 1893 to date.

Edentata. Ganodonts, Glyptodonts, Armadillos

- 1897 120. **The Ganodonta or Primitive Edentates with Enamelled Teeth.** *Science*, N. S., Vol. v, No. 120, April 16, 1897, pp. 611-612. Pal. 57
- 1903 236. **Glyptotherium texanum, A new Glyptodont, from the Lower Pleistocene of Texas.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xix, Art. xvii, Aug. 17, 1903, pp. 491-494, pl. xliii. Pal. 129
- 1904 252. **An Armadillo from the Middle Eocene (Bridger) of North America.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xii, May 10, 1904, pp. 163-165. Pal. 140
- See also subject, **Vertebrate Palæontology, Progress of**, titles 1893 to date.

Condylarthra, Ungulata Primitiva

- 1892 62. Is *Meniscotherium* a Member of the Chalicotherioidea? *Amer. Naturalist*, Vol. xxvi, No. 306, June, 1892, pp. 506-509. Pal. 29
- 1897 130. Reconstruction of *Phenacodus primævus*, the most primitive ungulate. *Abstr. Science*, N. S., Vol. vi, No. 142, 1897, p. 435. *Amer. Naturalist*, Vol. xxxi, No. 371, Nov. 1897, p. 980. *Proc. Amer. Assoc. Adv. Sci., Section Zool.* Vol. xlvi, June, 1898 (meeting of Aug., 1897), p. 238. Pal. 61
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.
- 1898 147. Remounted Skeleton of *Phenacodus primævus*. Comparison with *Euprotogonia*. *Bull. Amer. Mus. Nat. Hist.*, Vol. x, Art. ix, May 6, 1898, pp. 159-164, pl. xii. Pal. 72

Amblypoda. Pantolambda, Coryphodon, Dinoceras

- 1879 4. The Lower jaw of *Loxolophodon*. [With Francis Speir, Jr.] *Amer. Journ. Sci.*, 3d Ser., Vol. xvii, No. 100, 1879, pp. 304-9. Pal. 2
- 1881 8. A Memoir upon *Loxolophodon* and *Uintatherium*, Two Genera of the Sub-Order Dinocerata. Accompanied by a Stratigraphical Report of the Bridger Beds in the Washakie Basin by John Bach McMaster. *Contr. E. M. Mus. of Geol. and Archaeol. Coll. of New Jersey* [Princeton], Vol. i, No. 1, 1881, pp. 5-54, pls. i-iv, 2 maps. Pal. 3
- 1898 137. The Characters and Phylogeny of the Amblypoda. *Science*, N. S., Vol. vii, No. 164, Feb. 18, 1898, p. 226 [abstr. of paper read before Amer. Morphological Soc.]. Pal. 65
- 1898 142. A Complete Skeleton of *Coryphodon radians*. Notes upon the Locomotion of this Animal. *Bull. Amer. Mus. Nat. Hist.*, Vol. x, Art. vi, April 4, 1898, pp. 81-91, pl. x. *Science*, N. S., Vol. vii, No. 174, April 29, 1898, pp. 585-588. Pal. 68
- 1898 148. Evolution of the Amblypoda, Part I. *Taligra* and *Pantodonta*. *Bull. Amer. Mus. Nat. Hist.*, Vol. x, Art. xi, June 3, 1898, pp. 169-218. Pal. 73
- 1913 401. The Skull of *Bathyopsis*, Wind River *Uintathere*. *Bull. Amer. Mus. Natural Hist.*, Vol. xxxii, Art. xxii, pp. 417-420, Sept. 2, 1913. Pal. 204
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

Hyracoidea. Pliohyrax, Saghatherium

- 1899 176. On *Pliohyrax Kruppi* Osborn, a Fossil Hyracoid, from Samos, Lower Pliocene, in the Stuttgart Collection. A New Type, and the First Known Tertiary Hyracoid. *Proc. Fourth International Congress of Zoology*, 1899, pp. 172-173 (meeting at Cambridge, 1898). Pal. 93

- 1906 283. **Milk Dentition of the Hyracoid Saghatherium from the Upper Eocene of Egypt.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xxii, Art. xiii, July 25, 1906, pp. 263-266. **Pal. 167**
See also subject, *Vertebrate Palæontology, Progress of, titles 1893 to date.*

Proboscidea

- 1907 295. **A Mounted Skeleton of the Columbian Mammoth (*Elephas columbi*).** *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiii, Art. xii, Mar. 30, 1907, pp. 255-257. **Pal. 174**
1907 299. **A Mastodon "At Home."** *The Evening Post*, Saturday, August 3, 1907, p. 2. **Pal. 176**
1907 302. **Hunting the Ancestral Elephant in the Fayûm Desert. Discoveries of the Recent African Expedition of the American Museum of Natural History.** *The Century Magazine*, Vol. lxxiv, No. 6, Oct., 1907, pp. 815-835. Editorial abstr. *Nature*, Vol. 76, No. 1981, Oct. 17, 1907, p. 622. Abstr. "Hunting the Two Million Year Old Elephant," in the *Illustrated London News*, Suppl., Vol. 132, No. 3594, Mar. 7, 1908. **Pal. 177**
1909 332. **The Feeding Habits of *Mœritherium* and *Palæomastodon*.** *Nature*, Vol. 81, No. 2074, July 29, 1909, pp. 139-140. **Pal. 184**
1912 347. [Abstr.] **A Means of Estimating the Age of the Mastodon and Other Proboscidea.** Separates issued in 1910. *Proc. Seventh International Zoological Congress* (Boston Meeting, Aug. 19-24, 1907), 1912, pp. 782-784. **Pal. 190**
1914 411. **Restoration of the World Series of Elephants and Mastodons.** (Read before the Paleontological Society, Jan. 1, 1914.) *Bull. Geol. Soc. of Amer.* Vol. 25, No. 3, Sept. 15, 1914, pp. 407-410. **Pal. 207**
See also subject, *Vertebrate Palæontology, Progress of, titles 1893 to date.*

Sirenia

See also subject, *Vertebrate Palæontology, Progress of, titles 1893 to date.*

Artiodactyla

- 1883 11. II. **On *Achænodon*, an Eocene Bunodont.** *Contr. E. M. Mus. of Geol. and Archæol. Princeton Coll.* Bull. No. 3, May, 1883, pp. 23-35. **Pal. 6**
1892 69. **Characters of *Protoceras* (Marsh), the New Artiodactyl from the Lower Miocene.** [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. iv, Art. xviii, Dec. 30, 1892, pp. 351-371. **Pal. 33**
1893 72. ***Artionyx*, a New Genus of Ancylopoda.** [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. v, Art. i, Feb., 1893, pp. 1-18. **Pal. 35**
1893 74. ***Protoceras*, the New Artiodactyl.** *Nature*, Vol. 47, No. 1214, Feb. 2, 1893, pp. 321-322. **Pal. 37**
1893 75. [Abstr.] ***Protoceras celer*.** *Anat. Anz.*, Jahrg. viii, No. 4, Jan. 18, 1893, p. 128 [report of meeting of N. Y. Acad. Sci.]. **Pal. 38**

- 1893 76. [Abstr.] **Foot of Artionyx.** *Trans. N. Y. Acad. Sci.*, Vol. xii, Mar. 25, 1893, pp. 95, 96. *Anat. Anz.*, Jahrg. viii, Nos. 10, 11, Apr. 8, 1893, p. 368 [report of meeting of N. Y. Acad. Sci.]. **Pal. 39**
- 1893 77. **Artionyx—A Clawed Artiodactyl.** *Nature*, Vol. 47, No. 1226, Apr. 27, 1893, pp. 610–611. **Pal. 40**
- 1899 169. [Abstr.] **[Anatomy of the Mule-footed Hog of Texas.]** [Read before N. Y. Acad. Sci., Mar. 8, 1899.] *Science*, N. S., Vol. ix, No. 235, June 30, 1899, p. 913. *Ann. N. Y. Acad. Sci.*, Vol. xii, No. 15, June 2, 1900, pp. 660–661. **Zoöl. 2**
- 1906 279. **Mountain Goat Hunting with the Camera.** With Observations on Other Mammals of Southern British Columbia. *Tenth Annual Report N. Y. Zoological Society*, Jan., 1906, pp. 217–233. **Zoöl. 6**
- See also subject, **Vertebrate Palæontology, Progress of**, titles 1893 to date.

Perissodactyla, Classification of

- 1892 67. **Fossil Mammals of the Wahsatch and Wind River Beds.** Collection of 1891. [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. iv, Art. xi, Oct. 20, 1892, pp. 81–147. **Pal. 32**
- 1898 143. **The Extinct Rhinoceroses.** *Memoirs Amer. Mus. Nat. Hist.*, Vol. i, Pt. iii, April 22, 1898, pp. 75–164, pll. xii–xx. Review, *Natural Sci.*, Vol. xiii, No. 79, Sept., 1898, pp. 157–159. **Pal. 69**

Perissodactyla, Eocene

- 1878 3. **Palæontological Report of the Princeton Scientific Expedition of 1877.** [With W. B. Scott and Francis Speir, Jr.] *Contr. E. M. Mus. of Geol. and Archæol. Princeton Coll.* [Coll. of New Jersey] No. 1, Sept. 1, 1878, pp. 7–106, pll. A and i–x. **Pal. 22**
- 1890 51. **The Mammalia of the Uinta Formation.** [Parts i and ii, Scott; Parts iii and iv, Osborn.] III. **The Perissodactyla.** IV. **The Evolution of the Ungulate Foot.** *Trans. Amer. Phil. Soc.*, N. S., Vol. xvi, Pt. iii, 1890, pp. 461–572, pll. vii–x. Abstr. *Nature*, by R. L., Vol. 43, No. 1104, Dec. 25, 1890, pp. 177–179. **Pal. 22**
- 1892 67. **Fossil Mammals of the Wahsatch and Wind River Beds.** Collection of 1891. [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. iv, Art. xi, Oct. 20, 1892, pp. 81–147. **Pal. 32**
- See also subject, **Vertebrate Palæontology, Progress of**, titles 1893 to date.

Perissodactyla, Oligocene

- 1895 105. **Perissodactyls of the Lower Miocene White River Beds.** [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. vii, Art. xii, Dec. 23, 1895, pp. 343–375, pll. vii–xi. **Pal. 51**
- 1878 3. **Palæontological Report of the Princeton Scientific Expedition of 1877.** [With W. B. Scot and Francis Speir, Jr.] *Contr. E. M. Mus. of Geol. and Archæol. Princeton Coll.* [Coll. of New Jersey] No. 1, Sept. 1, 1878, pp. 7–106, pll. A and i–x. **Pal. 1**

- 1890 51. **The Mammalia of the Uinta Formation.** [Parts i and ii, Scott; Parts iii and iv, Osborn.] III. **The Perissodactyla.** IV. **The Evolution of the Ungulate Foot.** *Trans. Amer. Phil. Soc.*, N. S., Vol. xvi, Pt. iii, 1890, pp. 461-572, pll. vii-x. Abstr. *Nature*, by R. L., Vol. 43, No. 1104, Dec. 25, 1890, pp. 177-179. Pal. 22
- 1892 67. **Fossil Mammals of the Wahsatch and Wind River Beds.** Collection of 1891. [With J. L. Wortman.] *Bull. Amer. Nat. Hist.*, Vol. iv, Art. xi, Oct. 20, 1892, pp. 81-147. Pal. 32
- See also subject, **Vertebrate Palæontology, Progress of, titles 1893 to date.**

Brontotheriidae. Titanotheres, Eocene, Oligocene

- 1896 107. **Titanotheres of the American Museum of Natural History.** *Amer. Naturalist*, Vol. xxx, No. 350, Feb., 1896, pp. 162-163 (Secretary's rept. session of the N. Y. Acad. Sci., Dec. 9, 1895.) Abstr. *Anat. Anz.*, Bd. xl, No. 16-17, Jan. 27, 1896, p. 512, and *Zool. Anz.*, xix Bd., No. 494, Jan. 30, 1896, p. 48. Pal. 52
- 1896 110. **The Cranial Evolution of Titanotherium.** *Bull. Amer. Mus. Nat. Hist.*, Vol. viii, Art. ix, July 31, 1896, pp. 157-197. Pal. 53
- 1897 116. **Lambdotherium not related to Palæosyops or the Titanotheres.** *Amer. Naturalist*, Vol. xxxi, No. 361, Jan., 1897, pp. 55-57. Pal. 55
- 1902 208. **The Four Phyla of Oligocene Titanotheres.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xvi, Art. viii, Feb. 18, 1902, pp. 91-109. Pal. 113
- 1908 318. **New or Little Known Titanotheres from the Eocene and Oligocene.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiv, Art. xxxii, Sept. 19, 1908, pp. 599-617. Pal. 181
- 1913 400. **Lower Eocene Titanotheres. Genera Lambdotherium, Eotitanops.** *Bull. Amer. Mus. Natural Hist.*, Vol. xxxii, Art. xxi, Sept. 2, 1913, pp. 407-415. Pal. 203
- 1913 409. **Recent Results in the Phylogeny of the Titanotheres.** (Read before the Paleontological Society, Dec. 31, 1913.) *Bull. Geol. Soc. of Amer.* Vol. 25, No. 3, Sept. 15, 1913, pp. 403-405. Abstr. "Final Results in the Phylogeny of the Titanotheres." Vol. 25, No. 1, Mar. 1914, p. 139. Pal. 205
- 1914 410. [Abstr.] **New Methods of Restoring Eotitanops and Brontotherium.** (Read before the Paleontological Society Dec. 31, 1913.) *Bull. Geol. Soc. Amer.* Vol. 25, No. 3, Sept. 15, 1914, p. 406. Pal. 206
- See also subject, **Vertebrate Palæontology, Progress of, titles 1893 to date.**

Ancylopoda

- 1891 57. **Meniscotheriidae and Chalicotherioidea.** *Amer. Naturalist*, Vol. xxv, No. 298, Oct., 1891, pp. 911-912. Pal. 26
- 1892 61. **The Ancestry of Chalicotherium.** *Science*, Vol. xix, No. 484, May 13, 1892, p. 276. Pal. 28
- 1893 73. **The Ancylopoda, Chalicotherium and Artionyx.** *Amer. Naturalist*, Vol. xxvii, No. 314, Feb., 1893, pp. 118-133. Pal. 36

- 1913 398. **Eomoropus, an American Eocene Chalicotheres.** *Bull. Am. Mus. Natural Hist.*, Vol. xxxii, Art. xiv, July 25, 1913, pp. 261-274. **Pal. 202**
See also subject, **Vertebrate Palæontology, Progress of, titles 1893 to date.**

Equidæ. Horses, Evolution and Structure

- 1904 251. **Recent Advances in our Knowledge of the Evolution of the Horse.** *Proc. Amer. Phil. Soc.*, Vol. xliii, No. 176, Apr., 1904, pp. 156-157. **Pal. 139**
1904 254. **New Oligocene Horses.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xiii, May 28, 1904, pp. 167-179, pl. v. **Pal. 141**
1904 260. **Fossil Wonders of the West, The Evolution of the Horse in America.** *The Century Magazine*, Vol. lxi, No. 1, November, 1904, pp. 3-17. **Pal. 147**
1905 261. **The Evolution of the Horse.** *Rept. Brit. Assoc. Adv. Sci.* [74th meeting, Cambridge, 1904], 1905, pp. 607-608. **Pal. 148**
1905 268. **Evolution of the Horse. Recent Studies and Discoveries.** *Comptes rendus du 6me Congrès intern. de Zoologie*, Session de Berne, 1904, May 25, 1905, p. 282. **Pal. 155**
1905 278. **Origin and History of the Horse.** Address before the New York Farmers, Dec. 19, 1905, pp. 1-16. **Pal. 164**
1906 289. **Preface to "The Arab Horse" by Spencer Borden.** Doubleday, Page & Co., 8vo, 1906, pp. vii-xiii. **Zoöl. 8**
1907 296. **Points of the Skeleton of the Arab Horse.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiii, Art. xiii, Mar. 30, 1907, pp. 259-263. **Zoöl. 9**
1908 311. **The Horses of Mexico.** *The Outing Magazine*, Vol. li, No. 5, Feb., 1908, pp. 587-591. **Zoöl. 10**
1908 319. **Exhibit Illustrating the Evolution of the Horse.** *Amer. Mus. Journ.*, Vol. viii, No. 8, Dec., 1908, pp. 117-122. **Pal. 182**
1910 348. **Great Horses That Were.** *The Evening Post*, Nov. 17, 1910, p. 9. **Pal. 191**
1912 372. **The Continuous Origin of Certain Unit Characters as Observed by a Palæontologist.** [Harvey Lecture.] [Same address as above with some alterations.] *Harvey Soc. Volume*, 7th ser., Nov., 1912, pp. 153-204. **Evol. 35**
1913 386. **The Wild Equines of the Zoological Park.** *Zool. Soc. Bull.*, Vol. xvi, No. 55, January, 1913, pp. 941-948. **Zoöl. 11**
1913 391. **Foreword to "The Arabian National Stud Book" by H. K. Bush-Brown.** Published by the Arabian Horse Club of America, Washington, D. C., Mar. 20, 1913, p. 3. **Zoöl. 12**
1913 396. **The Horse Past and Present in the American Museum of Natural History.** Issued by the American Museum May 6, 1913, 4to, 37 pp. **Pal. 201**
See also subject, **Vertebrate Palæontology, Progress of, titles 1893 to date.**

Lophiodontidæ

- 1892 65. **What is Lophiodon?** *Amer. Naturalist*, Vol. xxvi, No. 309, Sept., 1892, pp. 763-765. **Pal. 31**

Rhinocerotidæ

- 1882 9. *Orthocynodon*, an animal related to the Rhinoceros, from the Bridger Eocene. [With W. B. Scott.] *Amer. Journ. Sci.*, Vol. xxiv (3), No. 141, Sept., 1882, pp. 223-225. Pal. 4
- 1883 10. I. On the Skull of the Eocene Rhinoceros, *Orthocynodon*, and the Relation of this Genus to Other Members of the Group. [With W. B. Scott.] *Contr. E. M. Mus. of Geol. and Archæol. Princeton Coll.* Bull. No. 3, May, 1883, pp. 1-22. Pal. 5
- 1893 78. *Aceratherium tridactylum* from the Lower Miocene of Dakota. *Bull. Amer. Mus. Nat. Hist.*, Vol. v, Art. vii, April 29, 1893, pp. 85-86. Pal. 41
- 1898 140. A Complete Skeleton of *Teleoceras fossiger*. Notes on the growth and Sexual Characters of this Species. *Bull. Amer. Mus. Nat. Hist.*, Vol. x, Art. iv, Mar. 18, 1898, pp. 51-59, pll. iv, iva. Pal. 67
- 1898 143. The Extinct Rhinoceroses. *Memoirs Amer. Mus. Nat. Hist.*, Vol. i, Pt. iii, April 22, 1898, pp. 75-164, pll. xiii-xx. Review, *Natural Sci.*, Vol. xiii, No. 79, Sept., 1898, pp. 157-159. Pal. 69
- 1898 144. A Complete Skeleton of *Teleoceras*, the True Rhinoceros from the Upper Miocene of Kansas. *Science*, N. S., Vol. vii, No. 173, April 22, 1898, pp. 554-557. Pal. 70
- 1898 156. On the Presence of a Frontal Horn in *Aceratherium incisivum* Kaup. Abstr. *Science*, N. S., Vol. viii, No. 207, Dec. 16, 1898, p. 880. Pal. 79
- 1899 161. Frontal Horn on *Aceratherium incisivum*. Relation of this Type to *Elasmotherium*. [Read before N. Y. Acad. Sci., Nov. 14, 1898.] *Ann. N. Y. Acad. Sci.*, Vol. xi, No. 22, Jan. 18, 1899, p. 487. *Science*, N. S., Vol. ix, No. 214, Feb. 3, 1899, pp. 161-2. Pal. 81
- 1900 192. Phylogeny of the Rhinoceroses of Europe. Rhinoceros Contributions No. 5. *Bull. Amer. Mus. Nat. Hist.*, Vol. xiii, Art. xix, Dec. 11, 1900, pp. 229-267. Pal. 101
- 1904 257. New Miocene Rhinoceroses with Revision of Known Species. *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xxvii, Sept. 24, 1904, pp. 307-326. Pal. 144
- 1905 269. History of a White Rhinoceros Skull. *Nature*, Vol. 72, No. 1858, June 8, 1905, p. 127. Pal. 156
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

Primates

- 1902 216. American Eocene Primates, and the Supposed Rodent Family *Mixodectidæ*. [Read before N. Y. Acad. Sci., Mar. 11, 1901.] Abstr. *Ann. N. Y. Acad. Sci.*, Vol. xiv, No. 5, Mar. 4, 1902, p. 111. *Bull. Amer. Mus. Nat. Hist.*, Vol. xvi, Art. xvii, June 28, 1902, pp. 169-214. Pal. 117
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

PALÆONTOLOGY, VERTEBRATE, PROGRESS OF

- 1893 79. The Collection of Fossil Mammals in the American Museum of Natural History, New York. *Science*, Vol. xxi, No. 536, May 12, 1893, p. 261. Pal. 42
- 1897 122. [Phylogeny of the early Eocene Titanotheres: Redefinition of the Ceneutheria and Meseutheria: Origin of the Multituberculate teeth among the Gomphodontia.] Abstr. *Science*, N. S., Vol. vi, No. 133, July 16, 1897, p. 107. Pal. 58
- 1898 135. Palæontological Notes. *Science*, Vol. vii, No. 162, Feb. 4, 1898, pp. 164-165. Pal. 64
- 1899 172. Recent Zoopaleontology. 2. Triassic Life in Germany [Review of "Die Bildung der germanischen Trias, eine petrogenetische Studie," by Fraas], A Triassic Chelonian [Review of paper by same author on *Proganochelys quenstedtii* Baur], The Newburgh Mastodon. *Science*, N. S., Vol. x, No. 250, Oct. 13, 1899, pp. 538-539. Pal. 89
- 1900 180. Recent Zoopaleontology. Adaptive Radiation of Camels and Llamas. The Pliocene Hyrax. Exploration for Dinosaurs. Ear Bones of Marsupials. The fins of Ichthyosaurus. *Science*, N. S., Vol. xi, No. 264, Jan. 19, 1900, pp. 115-116. Pal. 96
- 1900 190. Recent Zoopaleontology. A Rhinoceros with a Complete Set of Cutting Teeth. Extinct Lemurs from Madagascar. Pareiasaurians or Theriodonts in Northern Russia. Fossil Mammals from Egypt. Extinct Birds of Patagonia. Large Turtles from the Fort Pierre of South Dakota. *Dinotherium gigantissimum*. Fossil Camels of Europe. The Devonian Lamprey and the Classification of the Fishes. *Science*, N. S., Vol. xii, No. 307, Nov. 16, 1900, pp. 767-769. Pal. 99
- 1901 197. Recent Progress in Paleontology. Congestion of Museums, Special Investigations, Evolution of the Horse. *Science*, N. S., Vol. xiii, No. 335, May 31, 1901, pp. 872-873. Pal. 104
- 1901 202. Recent Zoopaleontology. A Marsupial Evolution. Geology of the John Day Basin. Discoveries of Plesiosaurs and of *Portheus*. *Science*, N. S., Vol. xiv, No. 348, Aug. 30, 1901, pp. 330-331. Pal. 107
- 1901 203. Recent Zoopaleontology. [Refers to explorations in America and other Countries.] *Science*, N. S., Vol. xiv, No. 352, Sept. 27, 1901, pp. 498-499. Pal. 108
- 1901 205. Recent Zoopaleontology. Vertebrate Paleontology at the Carnegie Museum. Discoveries in Northern Africa. Notes on Primitive and Fossil Birds. *Science*, N. S., Vol. xiv, No. 354, Oct. 11, 1901, pp. 578-580. Pal. 110
- 1901 206. Recent Zoopaleontology. Fossil Reptiles of Europe. Marsh's Collection of Bridger Mammalia. Pleistocene Horses of North America. *Science*, N. S., Vol. xiv, No. 357, Nov. 1, 1901, pp. 699-700. Pal. 111
- 1902 209. Recent Zoopaleontology. A Fossil Camel from Southern Russia. Fossil Remains of Lake Callabona [Australia]. Transference of Secondary Sexual Characters from Males to Females. *Homo neanderthalensis*

- a Distinct Species. Distinctions between the skulls of Lemurs and Monkeys. Distinct Phyla of Rhinoceroses. *Science*, N. S., Vol. xv, Feb. 28, No. 374, 1902, pp. 355-357. **Pal. 114**
- 1902 210. Recent Zoopalaeontology. Fritsch's Fauna der Gaskohle und der Kalksteine der Permformation, Böhmens. *Science*, N. S., Vol. xv, No. 378, Mar. 28, 1902, p. 514. **Pal. 115**
- 1902 220. Recent Zoopaleontology. Triassic Ichthyosaurs from California and Nevada. Relations of the Ostracoderm and Arthrodiran Fishes, Origin of the Turtles. Abandonment of the Oligocene and Miocene Lake Basin Theory. Studies of Eocene Mammalia in the Marsh Collection, Peabody Museum. A New Pleistocene Rhinoceros related to the Sumatran Form. Relations of Okapia. *Science*, N. S., Vol. xvi, No. 410, Nov. 7, 1902, pp. 749-752. **Pal. 121**
- 1902 219. Recent Zoopaleontology. A Remarkable New Mammal from Japan. Its Relationship to the Californian Genus *Desmostylus*, Marsh. Eocene Sirenians in Egypt. Progress of the Explorations for Fossil Horses. The Perissodactyls typically Polyphyletic. *Science*, N. S., Vol. xvi, No. 409, Oct. 31, 1902, pp. 713-715. **Pal. 120**
- 1903 223. Recent Zoopaleontology. The Cope Pampean Collection. *Science*. N. S., Vol. xvii, No. 421, Jan. 23, 1903, pp. 157-158. **Pal. 122**
- 1903 227. Recent Zoopaleontology. An Upper Pliocene Cave. A New Rhinoceros from Southern Bavaria. The Basal Eocene Mammalian Fauna in the Ft. Union Beds of Montana. A Review of the Reptilia of the Trias. A Horned Eocene Ungulate from Egypt [*Arsinoitherium*]. *Science*, N. S., Vol. xvii, No. 425, Feb. 20, 1903, pp. 312-314. **Pal. 125**
- 1903 239. Recent Zoopaleontology. Additional Discoveries in Egypt. Recent Discoveries in France. South American Mammals, Marsupials and Monotremes, Horses and Man. *Science*, N. S., Vol. xviii, No. 464, Nov. 20, 1903, pp. 665-668. **Pal. 131**
- 1903 240. Recent Zoopaleontology. Schlosser's Literaturbericht. American Oligocene Microfauna. Triassic Reptilia. Cretaceous Reptiles. Jurassic Reptiles. *Science*, N. S., Vol. xviii, No. 465, Nov. 27, 1903, pp. 699-702. **Pal. 132**
- 1903 242. Recent Zoopaleontology. Vertebrate Paleontology in the United States Geological Survey. *Science*, N. S., Vol. xviii, No. 467, Dec. 25, 1903, pp. 835-837. **Pal. 134**
- 1904 247. [Summaries of papers read before the Society of Vertebrate Paleontologists of America, Dec. 29, 1903.] On the Position of the Bones of the Fore-arm in the Opisthocœlia or Sauropoda. On the Use of the Sandblast in Cleaning Fossils. Conclusive Palæontological Evidence for the Tritubercular Theory. A Reclassification of the Reptilia. On the Primary Components of Vertebræ and their Relation to Ribs. *Science*, N. S., Vol. xix, No. 476, Feb. 12, 1904, pp. 255-257. **Pal. 137**
- 1905 270. Recent Vertebrate Paleontology. Fossil Mammals of Mexico. *Science*, N. S., Vol. xxi, No. 546, June 16, 1905, pp. 931-932. **Pal. 157**

- 1905 274. Recent Vertebrate Paleontology. *Science*, N. S., Vol. xxii, No. 554, Aug. 11, 1905, pp. 188-189. Pal. 160
- 1906 282. Recent Vertebrate Paleontology. Extinct Mammals of Patagonia [Review of Gaudry's Memoir on the fossils of Patagonia, in *Annales de Paléontologie*, Vol. i]. Eocene Mammalia of Northern Africa [Review of "A Descriptive Catalogue of the Tertiary Vertebrata of the Fayûm, Egypt, based on the Collection of the Egyptian Government in the Geological Museum, Cairo, and on the Collection in the British Museum (Natural History), London," by Charles William Andrews]. *Science*, N. S., Vol. xxiv, No. 602, July 13, 1906, pp. 55-57. Pal. 166
- 1906 285. Recent Vertebrate Paleontology. Small Permian Reptile from Brazilian Coal Commission. *Science*, N. S., Vol. xxiv, No. 606, Aug. 10, 1906, pp. 184-185. Pal. 169
- 1914 412. The Broom Fossil Reptile Collection. *Amer. Museum Journ.* Vol. xiv, No. 4, Apr. 1914, pp. 137-138. Pal. 209

EXPLORATION FOR FOSSILS

- 1898 138. Preface to Fossil Vertebrates in the American Museum of Natural History. Vol. I. Articles collected from the *American Museum Bulletins* of the Years 1892-1897, Jan., 1898, pp. iii-vi. Pal. 66
- 1903 243. Explorations and Researches of the Department of Vertebrate Paleontology. Preface to *Fossil Vertebrates in the American Museum of Natural History*, Vol. ii. Articles Collected from the *American Museum Bulletins* of the years 1898-1903. 8vo, Dec., 1903, pp. iii-xix. Pal. 135
- 1904 244. Recent Zoopaleontology. Field Explorations during the Past Season. *Science*, N. S., Vol. xix, No. 470, Jan. 1, 1904, pp. 35-36. Pal. 136
- 1905 277. Western Explorations for Fossil Vertebrates. *Pop. Sci. Monthly*, Vol. lxxvii, No. 35, Oct., 1905, pp. 561-568. Pal. 163
- 1906 286. Hunting Prehistoric Animals. Introduction to article by D. A. Willey, "Bone Cabin Quarry." *Appleton's Magazine*, Vol. viii, No. 5, Nov. 1906, pp. 552-554. Pal. 170
- 1909 313. Explorations and Researches of the Department of Vertebrate Paleontology. [With W. D. Matthew.] Preface to Vol. iii of Articles Collected from the *American Museum Bulletin* of the Years 1904-1908. Issued Apr., 1909. Pal. 180
- 1908 317. A Paleontological Trip to Northwestern Nebraska. *Ann. N. Y. Acad. Sciences*, Vol. xviii, No. 8, Pt. ii, May, 1908, pp. 351-352.
- 1911 361. A Review of the Museum's Exploration Work. *Amer. Museum Journ.*, Vol. xi, No. 8, Dec., 1911, pp. 267-269. Adm. 31
- 1912 364. [Address before Groton School on Fossils and Exploration.] *The Grotonian*, Vol. xxviii, No. xvi, Feb. 5, 1912, pp. 1, 2, 5. Pal. 194
- See also subject, Vertebrate Palæontology, Progress of, titles 1893 to date.

METHODS OF RESTORATION OF EXTINCT ANIMALS

- 1896 113. Prehistoric Quadrupeds of the Rockies. *Century Magazine*, Vol. lii, No. 5, Sept. 1896, pp. 705-715. Pal. 54
- 1898 151. Models of Extinct Vertebrates. *Science*, N. S., Vol. vii, No. 182, June 24, 1898, pp. 841-845. Pal. 75
- 1898 159. Casts, Models, Photographs, and Restorations of Fossil Vertebrates. Pamphlet issued by Department of Vertebrate Palæontology, Amer. Mus. Nat. Hist., pp. 1-21, with 7 illustr. Adm. 5
- 1899 177. Restoration of Extinct Vertebrates, from the American Museum of Natural History. *Proc. Fourth Internat. Congress of Zoology*, 1899, p. 174 (meeting at Cambridge, 1898). Pal. 94

GEOLOGY

- 1900 179. A Glacial Pot-hole in the Hudson River Shales near Catskill, N. Y. *Amer. Naturalist*, Vol. xxxiv, No. 397, Jan., 1900, pp. 33-36. Geol. 1
- 1901 201. Professor Fraas on the Aqueous vs. Æolian Depositions of the White River Oligocene of S. Dakota. [Unsigned.] *Science*, N. S., Vol. xiv, No. 345, Aug. 9, 1901, pp. 210-212. Geol. 3
- 1900 188. The Eighth International Geological Congress at Paris. *Science*, N. S., Vol. xii, No. 299, Sept. 21, 1900, pp. 440-442. Geol. 2

GEOLOGIC CORRELATION AND PALÆOGEOGRAPHY

- 1900 182. The Geological and Faunal Relations of Europe and America during the Tertiary Period and the Theory of the Successive Invasions of an African Fauna. *Science*, N. S., Vol. xi, No. 276, Apr. 13, 1900, pp. 561-574. Zoog. 1
- 1900 187. Correlation Between Tertiary Mammal Horizons of Europe and America. An Introduction to the More Exact Investigation of Tertiary Zoogeography. Preliminary Study with Third Trial Sheet. Part I. Parallels between Tertiary Horizons. [Presidential address before N. Y. Acad. Sci. delivered February 27, 1899.] Part II. Faunal Relations of Europe and America During the Tertiary Period and Theory of Successive Invasions of an African Fauna into Europe. [Presidential address before N. Y. Acad. Sci. delivered February 26, 1900.] [With a list of the Author's Scientific Publications, 1878-1899, appended by direction of the Council of the Academy.] *Ann. N. Y. Acad. Sci.*, Vol. xiii, No. 1, July 21, 1900, pp. 1-72. Corr. Zoog. 1
- 1901 200. Mémoires présentés au Congrès de Paris: (1) Des Méthodes précises mises actuellement en oeuvre dans l'étude des vertébrés fossiles des États Unis d'Amérique; (2) Corrélation des horizons de mammifères tertiaires en Europe et en Amérique. *Congrès Géologique International, Comptes Rendus du viii^e Session en France* [1900]. Fasc. 1, pp. 353-356, 357-363, 8vo, Paris, 1901. Pal. 106
- 1907 294. Tertiary Mammal Horizons of North America. *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiii, Art. xi, Mar. 30, 1907, pp. 237-253. Pal. 173

- 1909 321. **Cenozoic Mammal Horizons of Western North America.** With Faunal Lists of the Tertiary Mammalia of the West by William Diller Matthew. *Bull.* 361 *U. S. Geological Survey*, Washington, Jan., 1909, pp. 1-138. **Corr. Geol. 1**
- 1909 328. **Geological Correlation Through Vertebrate Paleontology by International Coöperation.** Correlation Bull. No. 1. Plan and Scope. [With Dr. W. D. Matthew.] *Ann. N. Y. Acad. Sci.*, Vol. xix, No. 2, Pt. 1, Apr. 20, 1909, pp. 41-44. **Corr. Geol. 2**
- 1910 341. **The Paleontologic Correlation Through the Bache Fund.** *Science*, N. S., Vol. xxxi, No. 794, Mar. 18, 1910, pp. 407-408. **Corr. Geol. 3**
- 1910 342. **Correlation of the Cenozoic Through its Mammalian Life.** *Journ. of Geol.*, Vol. xviii, No. iii, Apr.-May, 1910, pp. 201-215. *Outlines of Geologic History*, 8vo. Chicago Univ. Press, July 10, 1910, pp. 251-264. **Pal. 187**
- 1910 346. **The Age of Mammals in Europe, Asia and North America.** 8vo, The Macmillan Company, New York, Oct. 25, 1910, pp. 635. **Pal. 189**
- 1912 371. **Committee on Paleontologic Correlation.** [Report of work done on the Bache Fund of National Academy of Sciences.] *Confidential Minutes of the Business Sessions of the Ann. Meet. of the Nat. Acad. of Sci. held at Washington*, Apr. 16-18, 1912, p. 12. **Pal. 195**
- 1912 374. [Abstr.] **Zoogeographical Relations of North Africa in the Upper Eocene.** *Proc. Seventh International Zool. Congr.* (meeting Boston, 1907), Cambridge, 1912, p. 740. **Zoogr. 2**
- 1912 376. **Correlation and Paleogeography.** [Address before the American Society of Vertebrate Paleontologists, December 20, 1911. A summary of three years' study in Correlation, supported by the Bache Fund of the National Academy of Sciences.] *Bull. of the Geol. Soc. of Amer.*, Vol. 23, June 1, 1912, pp. 232-256. **Geol. 6**
- 1914 407. **Close of the Cretaceous and Opening of Eocene Time in North America.** (Read before the Paleontological Society Dec. 31, 1913.) *Bull. Geol. Soc. of America*. Vol. 25, No. 3, Sept. 15, 1914, pp. 321-323. **Geol. 7**
- 1915 416. **Origin of Single Characters as Observed in Fossil and Living Animals and Plants.** Delivered before Section of Biology of N. Y. Acad. of Sciences, Oct. 13 and Dec. 8, 1913. Presidential Address before the Paleontological Society of America, Dec. 31, 1914. [Sequel to Harvey Lecture, see No. 372.] *The Amer. Naturalist*, Vol. xlix, No. 580, April, 1915, pp. 193-239. **Evol. 38**
- 1915 418. **Review of the Pleistocene of Europe, Asia and Northern Africa.** [Revision for German ed. of author's work, "The Age of Mammals."] *Ann. N. Y. Acad. Sci.*, Vol. XXVI, July 30, 1915, pp. 215-315, 20 text figs. **Corr. Geol. 4**
- 1915 419. **Close of Jurassic and Opening of Cretaceous Time in North America.** Introduction to Symposium. Presented before The Paleontological Society, Dec. 30, 1914. *Proc. Pal. Soc.* printed in *Bull. Geol. Soc. of Amer.*, Vol. 26, Aug. 17, 1915, pp. 295-302, 1 text fig. **Geol. 8**

EVOLUTION PRINCIPLES, EXEMPLIFIED IN MAMMALIA

Extinction. Natural Selection

- 1906 287. **The Causes of Extinction of Mammalia.** [First half of article.] *Amer. Naturalist*, Vol. xl, No. 479, Nov., 1906, pp. 769-795. **Zoöl. 7**
- 1906 287. **The Causes of Extinction of Mammalia.** [Conclusion.] *Amer. Naturalist*, Vol. xl, No. 480, Dec., 1906, pp. 829-859. **Zoöl. 7**

Divergence, Law of Adaptive Radiation

- 1902 214. **The Law of Adaptive Radiation.** *Amer. Naturalist*, Vol. xxxvi, No. 425, May, 1902, pp. 353-363. **Pal. 116**
- 1910 345. **Paleontologic Evidences of Adaptive Radiation.** *Pop. Science Monthly*, Vol. lxxvii, No. 1, July, 1910, pp. 77-81. **Pal. 188**
- 1905 263. **Recent Discoveries of Extinct Animals in the Rocky Mountain Region and Their Bearings on the Present Problems of Evolution.** [Read before N. Y. Acad. Sci., Dec. 12, 1904.] [Rept. of Dec., 1904, meeting of N. Y. Acad. of Sciences.] *Science*, N. S., Vol. xxi, No. 523, Jan. 6, 1905, p. 28. *Ann. N. Y. Acad. Sciences*, Vol. xvi, No. 7, Aug. 2, 1905, pp. 358-359. **Pal. 150**

Comparative Anatomy and Evolution Principles

271. **The Ideas and Terms of Modern Philosophical Anatomy.** [Read before the Section of Biology, N. Y. Acad. of Sciences, Apr. 10, 1905.] *Science*, N. S., Vol. xxi, No. 547, June 23, 1905, pp. 959-961. *Jour. of Philosophy, Psychology and Scientific Methods*, Vol. ii, No. 17, Aug. 17, 1905, pp. 455-458 (condensed). **Evol. 23**

Single Characters, Modes of Origin and Transformation

- 1889 46. **The Palæontological Evidence for the Transmission of Acquired Characters.** *Amer. Naturalist*, Vol. xxiii, No. 271, July, 1889, pp. 561-566. *Proc. Amer. Assoc. Adv. Sci.*, Vol. 38, July, 1890 (meeting, Toronto, Aug., 1889), pp. 273-276. *Rept. Brit. Assoc. Adv. Sci.*, 1890 (59th meeting, Newcastle-upon-Tyne, 1889), pp. 621-623. **Evol. 1**
- 1890 47. **The Palæontological Evidence for the Transmission of Acquired Characters.** *Nature*, Vol. xli, Jan. 9, 1890, pp. 227-228. **Evol. 2**
- 1891 53. **Are Acquired Variations Inherited?** [Opening a Discussion upon the Lamarckian Principle in Evolution. American Society of Naturalists, Boston, Dec. 31, 1890.] *Amer. Naturalist*, Vol. xxv, No. 291, Mar., 1891, pp. 191-216. **Evol. 4**
- 1894 92. **Certain Principles of Progressively Adaptive Variation Observed in Fossil Series.** *Rept. Brit. Assoc. Adv. Sci.*, 1894, p. 693 (title). *Nature*, Vol. 50, No. 1296, Aug. 30, 1894, p. 435. **Evol. 12**

- 1895 97. **The Hereditary Mechanism and the Search for the Unknown Factors of Evolution.** Biol. Lectures, Marine Biol. Lab. of Woods Holl, 1894, Ginn & Co., Boston, 1895. *Amer. Naturalist*, Vol. xxix, No. 341, May, 1895, pp. 418-439. **Evol. 14**
- 1898 134. **The Biological Problems of To-day: Palæontological Problems.** [Discussion before the annual meeting of the American Society of Naturalists.] *Science*, N. S., Vol. vii, No. 162, Feb. 4, 1898, pp. 145-147. **Evol. 20**
- 1902 212. **Homoplasy as a Law of Latent or Potential Homology.** *Amer. Naturalist*, Vol. xxxvi, No. 424, Apr., 1902, pp. 259-271. **Evol. 21**
- 1907 303. **Evolution as it Appears to the Paleontologist.** Address before the Seventh International Zoological Congress, Section of Palæozoölogy, Boston, Aug., 1907. (First Paper.) *Science*, N. S., Vol. xxvi, No. 674, Nov. 29, 1907, pp. 744-749. *Proc. Seventh International Zool. Congr.* [Boston Meeting, Aug. 19-24, 1907, Cambridge, Mass.], 1912, pp. 733-739. **Evol. 24**
- 1908 314. **Coincident Evolution Through Rectigradations.** (Third Paper.) *Science*, N. S., Vol. xxvii, No. 697, May 8, 1908, pp. 749-752. **Evol. 26**
- 1909 331. **To the Philosophic Zoölogist.** *Science*, N. S., Vol. xxix, No. 753, June 4, 1909, pp. 895-896. **Evol. 28**
- 1911 353. **"Mutations" of Waagen and "Mutations" of De Vries or [and] "Rectigradations" of Osborn.** *Science*, N. S., Vol. xxxiii, No. 844, Mar. 3, 1911, p. 328. **Evol. 29**
- 1912 367. **Phylogeny and Ontogeny of the Horns of Mammals.** *Science*, Vol. xxxv, No. 902, Apr. 12, 1912, pp. 595-596. *Ann. N. Y. Acad. Sci.*, Vol. xxii, Apr. 20, 1913, p. 341. **Evol. 34**
- 1912 372. **The Continuous Origin of Certain Unit Characters as Observed by a Palæontologist.** [Harvey Lecture.] [Same address as above with some alterations.] *Harvey Soc. Volume*, 7th ser., Nov., 1912, pp. 153-204. **Evol. 35**
- 1914 412. [Abstr.] **Rectigradations and Allometrons in Relation to the Conception of the "Mutations of Waagen," Of Species, Genera, and Phyla.** (Read before the Paleontological Society, Jan. 1, 1914.) *Bull. Geol. Soc. of Amer.* Vol. 25, No. 3, Sept. 15, 1914, pp. 411-416. Vol. 25, No. 1, Mar. 1914, p. 142. **Pal. 208**
- 1915 416. **Origin of Single Characters as Observed in Fossil and Living Animals and Plants.** Delivered before Section of Biology of N. Y. Acad. of Sciences, Oct. 13 and Dec. 8, 1913. Presidential Address before the Paleontological Society of America, Dec. 31, 1914. [Sequel to Harvey Lecture, see No. 372.] *The Amer. Naturalist*, Vol. xlix, No. 580, April, 1915, pp. 193-239.
- 1915 421. **The Origin of New Adaptive Characters.** [A Reply.] *Nature*, Vol. 96, No. 2402, Nov. 11, 1915, pp. 284-285. **Evol. 39**

Homomorphy, Independent Origin of "Homologous" Character

- 1902 212. **Homoplasy as a Law of Latent or Potential Homology.** *Amer. Naturalist*, Vol. xxxvi, No. 424, Apr., 1902, pp. 259-271. **Evol. 21**
- 1911 356. **Biological Conclusions drawn from the Study of the Titanotheres.** [Read before National Acad. of Sci., Apr. 19, 1911.] *Science*, N. S., Vol. xxxiii, No. 856, May 26, 1911, pp. 825-828. **Evol. 30**

Organic Selection Theory [Osborn, Baldwin, Morgan]

- 1896 108. [Abstr.] **[A Mode of Evolution requiring neither Natural Selection nor the Inheritance of Acquired Characters.]** *Trans. N. Y. Acad. Sci.*, Vol. xv, March 9 and Apr. 13, 1896, pp. 141-142, 148. **Evol. 16**
- 1897 125. **Organic Selection.** *Science*, N. S., Vol. vi, No. 146, October 15, 1897, pp. 583-587. **Evol. 13**
- 1897 127. **The Limits of Organic Selection.** *Amer. Naturalist*, Vol. xxxi, No. 371, Nov., 1897, pp. 944-951. Abstr. *Proc. Amer. Assoc. Adv. Sci.*, Vol. xlv, June, 1898 (meeting of Aug., 1897), p. 239. **Evol. 19**
- 1898 153. **Modification and Variation, and the Limits of Organic Selection.** [A Joint Discussion with Professor Edward B. Poulton, of Oxford University.] Abstr. *Proc. Amer. Assoc. Adv. Sci.*, Vol. xlv, June, 1898, p. 239 (meeting of August, 1897). **Evol. 21**

Law of the Four Inseparable Factors of Evolution, Tetraplasy

- 1893 86. **Alte und Neue Probleme der Phylogenese.** *Ergebnisse der Anatomie und Entwicklungsgeschichte* (von Fr. Merkel u. R. Bonnet, Göttingen), Band iii, 1893, pp. 584-619. **Evol. 10**
- 1895 94. **Environment in its Influence upon the Successive Stages of Development and as a Cause of Variation.** [Opening discussion before the American Society of Naturalists, Baltimore, Dec. 27, 1894.] *Science*, N. S., Vol. I, No. 2, Jan. 11, 1895, pp. 35-36. **Evol. 13**
- 1896 114. **Ontogenic and Phylogenic Variation.** *Science*, N. S., Vol. iv, No. 100, Nov. 27, 1896, pp. 786-789. **Evol. 17**
- 1908 308. **The Four Inseparable Factors of Evolution. Theory of their Distinct and Combined Action in the Transformation of the Titanotheres, an Extinct Family of Hoofed Animals in the Order Perissodactyla, (Second Paper.)** *Science*, N. S., Vol. xxvii, No. 682, Jan. 24, 1908, pp. 148-150. **Evol. 25**
- 1911 356. **Biological Conclusions drawn from the Study of the Titanotheres.** [Read before National Acad. of Sci., Apr. 19, 1911.] *Science*, N. S., Vol. xxxiii, No. 856, May 26, 1911, pp. 825-828. **Evol. 30**
- 1912 365. [Abstr.] **Tetraplasy, a Law of the Four Inseparable Factors of Evolution.** *Proc. Acad. Nat. Sci. Phila.*, Vol. xiv, Mar., 1912, pp. 144-146. **Evol. 32**
- 1912 378. **Tetraplasy, the Law of the Four Inseparable Factors of Evolution.** *Jour. Acad. Nat. Sci. Phila.*, Vol. xv, 2d Ser. Special volume. Pub-

lished in Commemoration of the One Hundredth Anniversary of the Founding of the Academy, Mar. 21, 1912. Issued Sept. 14, 1912, pp. 275-309. **Evol. 36**

- 1915 416. **Origin of Single Characters as Observed in Fossil and Living Animals and Plants.** Delivered before Section of Biology of N. Y. Acad. of Sciences, Oct. 13 and Dec. 8, 1913. Presidential Address before the Paleontological Society of America, Dec. 31, 1914. *Amer. Naturalist*, Vol. xlix, No. 580, Apr. 1915, pp. 193-239. **Evol. 38**

EVOLUTION THEORY, HISTORY OF

- 1892 66. [Review.] **Darwin Expounded by Romanes.** *N. Y. Nation*, Vol. 55, No. 1423, Oct. 6, 1892, p. 266. **Evol. 7**
- 1893 81. **Heredity in the Ovum and Spermatozoön.** *Reference Handbook of the Medical Sciences*, Supplement to Vol. ix, 1893, pp. 396-408. **Evol. 8**
- 1893 84. [Review.] **Darwin and After Darwin, An Exposition of the Darwinian Theory and a Discussion of Post-Darwinian Questions (Vol. I. The Darwinian Theory)**—by George John Romanes, M.A., LL.D., F.R.S., Chicago: Open Court Publ. Co., 1892, pp. xiv, 460. *Educational Review*, Nov. 1893, pp. 390-391. **Evol. 9**
- 1894 91. **FROM THE GREEKS TO DARWIN. AN OUTLINE OF THE DEVELOPMENT OF THE EVOLUTION IDEA.** Vol. I of the Columbia University Biological Series, 8vo. Macmillan & Co., Aug. 17, 1894, pp. 259. Reprinted Sept., 1896, December, 1899, December, 1902, November, 1905, October, 1908. Italian translation: **Dai Greci a Darwin. Disegno Storico dello Sviluppo dell'idea dell'Evoluzione.** Translator, Dr. Giuseppe Nobili, Assistente al Museo Zoologico dell'Università di Torino. 8vo. Torino, 1901. **Evol. 11**
- 1895 101. [Review.] **Richard Owen and the Evolution Movement.** "The Life of Richard Owen." By Rev. Richard Owen. *The Nation*, Vol. 61, No. 1569, July 25, 1895, pp. 66-67. **Evol. 15**
- 1909 327. **Darwin and Palæontology.** One of the Addresses in "Fifty Years of Darwinism." 8vo, Henry Holt & Co., New York, April, 1909, pp. 209-250. **Evol. 27**
- 1912 362. **Darwin's Theory of Evolution by the Selection of Minor Saltations.** *The Amer. Naturalist*, Vol. xlvi, No. 542, Feb., 1912, pp. 76-82. **Evol. 31**
- 1912 366. **First Use of the Word "Genotype."** *Science*, N. S., Vol. xxxv, No. 896, Mar. 1, 1912, pp. 340-341. **Evol. 33**
- 1913 389. **Has Evolution "Collapsed"?** A Symposium by Scientists. *The Biblical World*, Vol. xli, No. 2, Feb., 1913, pp. 76-77. **Evol. 37**

Heredity Theory, History of

- 1890 48. **Evolution and Heredity.** Biological Lectures, Marine Biological Laboratory, Woods Hole, 1890, Ginn & Company, Boston, pp. 130-141. **Evol. 3**

- 1891 54. *The Present Problem of Heredity.* *Atlantic Monthly*, Vol. lxxvii, No. 401, Mar., 1891, pp. 353-364. **Evol. 5**
- 1892 58. *The Cartwright Lectures for 1892 before the Alumni of the College of Physicians and Surgeons, New York.—Present Problems in Evolution and Heredity.* 1. *The Contemporary Evolution of Man.* 2. *Difficulties in the Heredity Theory.* 3. *Heredity and the Germ Cells.* *Medical Record*, Vol. 41, 1892, No. 8 (whole No. 1111), Feb. 20, pp. 197-204, No. 10 (whole No. 1113), Mar. 5, pp. 253-261, No. 17 (whole No. 1120), Apr. 23, pp. 449-456, No. 20 (whole No. 1123), May 14, pp. 533-534. *Amer. Naturalist*, Vol. xxvi, No. 306, June, 1892, pp. 455-481; No. 307, July, pp. 537-567; No. 308, Aug., pp. 642-670. **Evol. 6**
- 1893 81. *Heredity in the Ovum and Spermatozoön.* *Reference Handbook of the Medical Sciences*, Supplement to Vol. ix, 1893, pp. 396-408. **Evol. 8**

EVOLUTION OF MAN

Anthropology

- 1892 58. *The Cartwright Lectures for 1892 before the Alumni of the College of Physicians and Surgeons, New York. Present Problems in Evolution and Heredity.* 1. *The Contemporary Evolution of Man.* *Medical Record*, Vol. 41, 1892, No. 8 (whole No. 1111), Feb. 20, pp. 197-204, *Amer. Naturalist*, Vol. xxvi, No. 306, June, 1892, pp. 455-481.
- 1902 222. [On the Origin and Contemporary Evolution of Man.] Contr. to "The Record-Herald's Answers by Experts." *The Record Herald*, Chicago (some time during 1902). **Anthr. 1**
- 1907 290. *Discovery of a Supposed Primitive Race of Men in Nebraska.* *Century Magazine*, Vol. lxxiii, No. 3, Jan., 1907, pp. 371-375. Editorial abstr. *Nature*, Vol. 75, No. 1941, Jan. 10, 1907, p. 255. **Anthr. 2**
- 1907 298. *Archæological Work in Egypt.* *The Nation*, Vol. 84, No. 2179, April 4, 1907, pp. 320-321. *The Evening Post*, April 10, 1907, p. 4. **Anthr. 3**
- 1912 368. *Skull Measurements in Man and the Hoofed Mammals.* *Science*, N. S., Vol. xxxv, No. 902, Apr. 12, 1912, p. 596. *Ann. N. Y. Acad. Sci.*, Vol. xxii, Apr. 20, 1913, pp. 341-342. **Anthr. 4**
- 1912 384. *Men of the Old Stone Age. With an Account of a Motor Tour Through the Principal Cavern Regions of Southwestern Europe.* *Amer. Mus. Journ.*, Vol. xii, No. 8, Dec. 1912, pp. 279-295. **Anthr. 5**
- 1915 422. *MEN OF THE OLD STONE AGE, THEIR ENVIRONMENT, LIFE, AND ART.* Hitchcock Lectures of the University of California. Delivered at Berkeley, February, 1914. 8vo Charles Scribner's Sons, Nov. 24, 1915, 545 pp., pls. I-VIII, 268 text figs. Second ed. with slight alterations, Jan. 28, 1916. **Anthro. 6**

Psychology, Human

- 1880 7. *Questions upon the Visualizing and other Allied Faculties.* [With Francis Galton, F.R.S.] Privately printed, New York, Sept. 1st, 1880. 2-page leaflet. **Psych. 1**

- 1884 15. **A Study of the Mind's Chamber of Imagery.** [With James McCosh.] *Princeton Review*, Vol. 13, Jan.-June, 1884, pp. 50-72. Psych. 2
- 1884 16. [Review.] **Record of Family Faculties.—Life History Album**, by Francis Galton, F.R.S., London and New York, Macmillan & Co., 1884. *The Nation*, Vol. 38, No. 980, Apr. 10, 1884, pp. 326-327. Misc. 4
- 1884 17. **Illusions of Memory.** *North American Review*, May, 1884, pp. 476-486. Psych. 3
- 1884 18. **Visual Memory.** *The Journ. of Christian Philosophy*, Vol. iii, No. 4, July, 1884, pp. 439-450. Psych. 4

NEUROLOGY, EMBRYOLOGY

Amphibia

- 1879 5. **On Some Points in the Early Development of the Common Newt.** [With W. B. Scott.] *Quart. Journ. Micros. Sci.*, Vol. xix, N. S., Oct. 1879, pp. 449-475, pll. xx-xxi. Embr. 1
- 1885 12. **Preliminary Observations upon the Brain of Amphiuma.** *Proc. Acad. Nat. Sci. Phila.*, Vol. xxxv, Pt. II, June-Oct., 1883, pp. 177-186. Abstr. *Amer. Naturalist*, Vol. xix, No. 3, Mar., 1885, pp. 328-330. Neur. 1
- 1885 19. **Preliminary Observations upon the Brain of Menopoma.** *Proc. Acad. Nat. Sci. Phila.*, Vol. xxxvi, Pt. II, May-Oct., 1884, pp. 262-274. Abstr. *Amer. Naturalist*, Vol. xix, No. 3, Mar., 1885, pp. 328-330. Neur. 2
- 1888 41. **A Contribution to the Internal Structure of the Amphibian Brain.** *Journ. of Morph.*, Vol. ii, No. 1, July, 1888, pp. 51-96, pll. iv-vi. Neur. 9
[The homologies proposed in these three papers have not been confirmed, 1916.]

Reptilia, Aves

- 1886 23. **Observations upon the presence of the Corpus Callosum in the brain of Amphibians and Reptiles.** *Zool. Anz.*, Band ix, No. 219, Mar. 29, 1886, pp. 200-205. Neur. 4
- 1887 24. **The Origin of the Corpus Callosum. A Contribution upon the Cerebral Commissures of the Vertebrata.** *Morph. Jahrb.*, Band xii, 1886, Pt. i, pp. 223-247, and Pt. ii, pp. 530-543, pll. xiii, xiv, xxv. Neur. 5
- 1886 25. **Note upon the Cerebral Commissures in the lower Vertebrata and a probable fornix rudiment in the Brain of Tropicodonotus.** *Zool. Anz.*, Band ix, No. 233, Sept. 27, 1886, pp. 577-578. Neur. 6
- 1887 31. **The Relation of the Dorsal Commissures of the Brain to the Formation of the Encephalic Vesicles.** *Amer. Naturalist*, Vol. xxi, No. 10, Oct., 1887, pp. 940-941. Abstr. *Proc. Amer. Assoc. Adv. Sci.*, Vol. xxxvi, Mar., 1888 (meeting of Aug., 1887), p. 262. Neur. 7

Mammalia

- 1885 22. **The Development of the Brain.** *Reference Handbook of the Medical Sciences*, Vol. i, First Edition, 1885, pp. 633-642. Neur. 3

- 1888 39. Report of the Committee on Anatomical Nomenclature, with Special Reference to the Brain. [With Frank Baker.] *Proc. Amer. Assoc. Adv. Sci.*, Vol. xxxvi, Mar., 1888 (meeting of Aug., 1887), p. 56.

Neur. 8

CONSERVATION

- 1902 221. The Fossil Tree Bridge in the Arizona Petrified Forest. *Science*, N. S., Vol. xvi, No. 416, Dec. 19, 1902, p. 991. Geol. 4
- 1904 246. Preservation of the Wild Animals of North America. Address before the Boone and Crockett Club, Washington, Jan. 23, 1904. Publ. Boone and Crockett Club, 8vo, 1904, pp. 1-27. *Forest and Stream*, Apr. 16, 1904, pp. 312-313. Abstr. *Self Culture for Young People*, Vol. vii. Edited by A. S. Draper and Charles Welsh, Boston, 1906. Cons. 1
- 1906 279. Mountain Goat Hunting with the Camera. With Observations on Other Mammals of Southern British Columbia. *Tenth Annual Report N. Y. Zoological Society*, Jan., 1906, pp. 217-233. Zool. 6
- 1912 370. Preservation of the World's Animal Life. *Amer. Museum Journ.*, Vol. xii, No. 4, Apr., 1912, pp. 123-124. Cons. 2
- 1912 385. (Address as Presiding Officer of Meeting of January 23, 1913, of New York Woman's League for Animals), *Second Annual Report*, for the Year 1912, pp. 8-9. Misc. 10
- 1913 387. Foreword to "Our Vanishing Wild Life, Its Extermination and Preservation" by William T. Hornaday, 1st ed., 3,000 published by the Charles Scribner's Sons, Jan. 18, 1913, the 2d 10,000 by the N. Y. Zoological Society, January 18, 1913, 411 pp. (pp. vii-viii). Cons. 3
- 1913 399. The Preservation of Animal Life. Leaflet No. 16 of Am. Soc. for the Prevention of Cruelty to Animals, Aug., 1913, 1 p. Cons. 4

SCIENTIFIC BIBLIOGRAPHY, PRINCIPLES OF

- 1899 170. The International Catalogue of Scientific Literature. [With J. McK. Cattell and R. S. Woodward.] *Science*, N. S., Vol. x, No. 241, Aug. 11, 1899, pp. 165-167. Adm. 7
- 1899 171. [International Catalogue of Scientific Literature]: K. Paleontology: L. Zoology. *Science*, N. S., Vol. x, No. 241, Aug. 11, 1899, pp. 170-171. Pal. 88
- 1900 186. The International Catalogue of Scientific Literature. *Science*, N. S., Vol. xii, No. 290, July 20, 1900, p. 113. Adm. 11
- 1903 233. Progress of the Concilium Bibliographicum. *Science*, N. S., Vol. xvii, No. 441, June 12, 1903, pp. 951-952. Adm. 16
- 1904 253. Progress of the Concilium Bibliographicum. *Science*, N. S., Vol. xix, No. 490, May 20, 1904, pp. 802-805. Adm. 18
- 1907 300. Concilium Bibliographicum. *Science*, N. S., Vol. xxvi, No. 660, Aug. 23, 1907, pp. 260-261. Misc. 8

BIOGRAPHIES OF MEN OF SCIENCE

- 1883 14. Francis Maitland Balfour. *Science*, Vol. ii, No. 31, Sept. 7, 1883, pp. 299-301. **Biog. 1**
- 1883-4 20. Professor Arnold Guyot. *The Princetonian*, Vol. viii, 1883-84, p. 308. **Biog. 2**
- 1886 27. [Letter to Professor Edward D. Cope endorsing the completion by U. S. Geol. Survey of his work on the Tertiary Vertebrata.] Nov. 22, 1886, p. 4. Privately printed by Professor Cope with similar letters from other leading palæontologists. **Pal. 8**
- 1896 104. Memorial Tribute to Professor Huxley. [Address before the Biological Section of New York Academy of Sciences. Nov. 11, 1895.] *Trans. N. Y. Acad. Sci.*, Vol. xv, 1895-96, Sig. dated Jan. 14, 15, 1896, pp. 40-50. *Science*, N. S., Vol. iii, No. 57, Jan. 31, 1896, pp. 147-154. **Biog. 3**
- 1896 106. A Student's Reminiscences of Huxley. Biol. Lectures, Marine Biol. Lab. of Woods Holl, Ginn & Co., Boston, 1896, pp. 29-42. **Biog. 4**
- 1897 117. Goode as a Naturalist. [Address at the G. Brown Goode Memorial Meeting, U. S. National Museum, February 13.] *Science*, N. S., Vol. v, No. 114, March 5, 1897, pp. 373-378. **Biog. 5**
- 1897 121. Edward D. Cope. [Memorial Biography.] *Science*, N. S., Vol. v, No. 123, May 7, 1897, pp. 705-717. **Biog. 6**
- 1897 123. [Resolution of Committee of N. Y. Acad. of Sciences Relating to Death of Professor E. D. Cope.] *Science*, N. S., Vol. vi, No. 133, July 16, 1897, p. 108. With J. L. Wortman, *Trans. N. Y. Acad. Sci.*, Vol. xvi, Oct. 1896-Dec. 1897 (1898) pp. 319-320. **Biog. 7**
- 1897 128. A Great Naturalist: Edward D. Cope. *The Century Magazine*, Vol. iv, No. 1, Nov., 1897, pp. 10-15. **Biog. 8**
- 1898 158. Life and Works of Cope. Illustrating the Training of a Naturalist and The Essential Characteristics of a Great Comparative Anatomist. [Introduction to Syllabus, Lectures on the Vertebrata by E. D. Cope.] Univ. of Penn., 1898, pp. iii-xxxv. **Biog. 9**
- 1900 194. Work in the Mammals. Addresses in Memory of Edward Drinker Cope delivered at the meeting in the hall of the American Philosophical Society held at Philadelphia for Promoting Useful Knowledge, Nov. 12, 1897. *Proc. Amer. Philos. Soc. Memorial Volume I*, 1900, pp. 296-303. **Biog. 10**
- 1902 215. Henri Filhol, Paleontologist. *Science*, N. S., Vol. xv, No. 388, June 6, 1902, p. 912. **Biog. 11**
- 1904 245. Karl Alfred von Zittel. *Science*, N. S., Vol. xix, No. 474, Jan. 29, 1904, pp. 186-188. **Biog. 12**
- 1905 272. The Fossil Arachnida of Bohemia. [Review of memoir by Fritsch, "Neue Fische und Reptilien".] *Science*, N. S., Vol. xxii, No. 550, July 14, 1905, p. 57. **Pal. 158**
- 1907 305. Foreword to the Monographs on Vertebrate Paleontology. [Preface to "The Ceratopsia" by J. B. Hatcher and R. S. Lull.] *Monographs of the U. S. Geological Survey*, Vol. xlix, 1907, pp. xiii-xv. **Biog. 13**

- 1907 306. **Explorations of John Bell Hatcher for the Paleontological Monographs of the United States Geological Survey, together with a Statement of his Contributions to American Geology and Paleontology.** *Monographs of the U. S. Geol. Survey*, Vol. xlix, "The Ceratopsia" by Hatcher, Marsh, Lull. Washington, 1907, pp. xvii-xxvi. **Biog. 14**
- 1909 324. [Remarks on Darwin.] *The Evening Post*, New York, Feb. 12, 1909, p. 3. **Biog. 17**
- 1909 325. **Darwin Celebrations in the United States.** *Nature*, Vol. 80, No. 2055, Mar. 18, 1909, pp. 72-73. **Biog. 18**
- 1909 326. **Life and Works of Darwin.** [Address delivered Feb. 12, 1909, at Columbia University on the one hundredth anniversary of Darwin's birth, Feb. 12th, 1809, as the first of a series of nine lectures on "Charles Darwin and His Influence on Science."] *Pop. Sci. Monthly*, Vol. lxxiv, No. 4, April, 1909, pp. 315-343. *Abstr. Columbia Spectator*, Vol. lii, No. 102, Feb. 13, 1909. **Biog. 19**
- 1909 333. **Acceptance of the Portrait of Darwin.** *Ann. N. Y. Acad. Sci.*, Vol. xix, No. 1, Pt. 1, July 31, 1909, pp. 21-22. **Biog. 20**
- 1909 335. **The Darwin Centenary.** Address in Reply to the Reception of Delegates. [Cambridge, England, June 23, 1909.] *Science*, N. S., Vol. xxx, No. 763, Aug. 13, 1909, pp. 199-200. **Biog. 21**
- 1910 344. [Introduction to] **A Naturalist in the Bahama Islands, A Memorial Volume** [of Dr. John I. Northrop.] 8vo, Columbia University Press, June 15, 1910, 276 pp. **Biog. 23**
- 1912 377. **Scientific Worthies.** xxviii.—**Dr. Alfred Russell Wallace.** *Nature*, Vol. 89, No. 2224, June 13, 1912, pp. 367-370. **Biog. 25**
- 1912 379. **Remarks in answer to the toast "The Academy of Natural Sciences of Philadelphia and its Relation to the Development of Palæontology in America."** Address at the Meeting in Commemoration of the One Hundredth Anniversary of the Foundation of the Academy of Natural Sciences of Philadelphia held March 19, 20, 21, 1912. *Commemoration Volume, Journ. Acad. Nat. Sci. Phila.*, Vol. xv, 2d Ser. Published in Commemoration of the One Hundredth Anniversary, March, 21, 1912. Issued Sept. 14, 1912, pp. xxxii-xxxv. **Pal. 196**
- 1913 390. **Biographical Memoir of Joseph Leidy, 1823-1891.** [Read by title at meeting of National Acad. of Sci., Apr. 18-20, 1911. Presented to the Academy at the April Meeting, 1912.] *Biographical Memoirs National Acad. of Sciences.* Part of Vol. vii, Feb. 1913, pp. 339-396. **Biog. 26**
- 1913 393. **The New Order of Sainthood.** [Pasteur] *The Churchman.* Vol. cvii, No. 15 (whole No. 3560), Apr. 12, 1913, pp. 474-475. Reprinted by Charles Scribner's Sons, 12mo., Oct., 1913, 17 pp. **Biog. 27**
- 1913 403. **Alfred Russel Wallace.** *Pop. Sci. Monthly*, Vol. lxxxiii, No. 6, Dec. 1913, pp. 523-537. **Biog. 28**
- 1913 404. **A Great Naturalist, Alfred Russel Wallace, 1823-1913.** *Amer. Museum Journ.*, Vol. xiii, No. 8, Dec. 1913, pp. 331-333. **Biog. 29**

- 1915 417. Eberhard Fraas. *Science*, N. S., Vol. XLI, No. 1059, Apr. 16, 1915, pp. 571-572. Biog. 30

EDUCATION, THEORY OF, MUSEUM EDUCATION

- 1896 112. The Aim and Method of Science Study in Schools Below the College. Biological Work in the High Schools. [Discussion before the State Convocation at Albany, July.] *Regents Bulletin*, No. 36, Sept., 1896, pp. 62-64. Educ. 10
- 1910 145. Address of the President at the Fifth Annual Reception of the New York Academy of Sciences. *Science*, N. S., Vol. vii, No. 176, May 13, 1898, pp. 649-650. Educ. 12
- 1901 196. The Attitude of the State Toward Scientific Investigation. Annual Discussion before the American Society of Naturalists. *Science*, N. S., Vol. xiii, No. 316. Jan. 18, 1901, pp. 81-85. Abstr. *N. Y. Evening Post*, Dec. 28, 1900. Educ. 13
- 1903 231. The Mediæval and the True Modern Spirit in Education. 8vo, New York, April, 1903, privately printed, not published. Educ. 14
- 1906 281. The Seven Factors of Education. *Educational Review*, Vol. 32, No. 1, June, 1906, pp. 56-82. Educ. 16
- 1907 304. Science and Sentiment. An Address Before the Graduating Class of the Presbyterian Hospital Training School for Nurses. 8vo, New York, 1907, privately printed. Educ. 17
- 1909 323. [Note on Plans of the Amer. Mus. for instruction of the blind, and of young children in love and respect for animals.] *New York Times*, Pt. 5, Mag. Sect., Sunday, Jan. 31, 1909, p. 6. Educ. 19
- 1910 349. Huxley on Education. Opening Address to Columbia Students, Sept. 28 1910. 1st 2000 privately printed, Sept. 28, 1910. Reprint of 500 with some alterations, privately printed, Oct. 10. *Science*, N. S., Vol. xxxii, No. 826, Oct. 28, 1910, pp. 569-578. *Columbia University Quarterly*, Vol. xiii, No. 1, Dec., 1910 (includes some changes not in above printings), pp. 25-38. See next title. Educ. 20
- 1910 349. Huxley and Education. Address at the Opening of the College year, Columbia University, September 28, 1910. [Same address as above with some further alterations.] Charles Scribner's Sons, Dec. 23, 1910, 12mo, 45 pp. Educ. 20
- 1911 352. Florence Nightingale. [Introductory address at the meeting at Carnegie Hall, May 18, 1910, commemorative of the fiftieth anniversary of the founding of the first training school for nurses, at St. Thomas' Hospital, London, England.] *The Amer. Jour. of Nursing*, Feb., 1911, pp. 339-341. Educ. 21
- 1911 354. The American Museum and the Public Health. Second Address, Introductory Remarks by the President of the American Museum of Natural History, at the Opening [May 15, 1911] of a Special Joint Exhibition Signaling the Inauguration of the Work of the Department of Public Health of the American Museum of Natural History. Privately printed, 3 pp. Educ. 22

- 1912 369. [Address of Welcome to Association of Collegiate Alumnae, Nov. 25, 1911.]
Jour. Assoc. of Collegiate Alumnae, Vol. v, No. 3, Apr., 1912, pp. 250-251. Educ. 23
- 1912 383. *The State Museum and State Progress*. An Address delivered to the citizens and legislature at Albany, at the Dedication of the New York State Education Building, October 15, 1912. *Science*, N. S., Vol. xxxvi, No. 929, Oct. 18, 1912, pp. 493-504. Educ. 25
- 1913 397. *The Museum and Nature Study in the Public Schools*. [With George H. Sherwood.] *Misc. Publ. Am. Mus. Natural Hist.*, No. 3, May 19, 1913, 13 pp. [Appeared in part in *Ann. Report Am. Mus. Natural Hist.* for the year 1912.] Educ. 27
- 1913 402. Address at dinner tendered on Tuesday, October 21, 1913, to the Delegates to the Dedication of the Graduate College of Princeton University. *The Princeton Alumni Weekly*, Vol. XIV, No. 5, Oct. 29, 1913, pp. 110-111. Educ. 28
- 1915 420. *The Pacific Coast Meeting of the American Association for the Advancement of Science*. *Science*, N. S., Vol. xlii, No. 1084, Oct. 8, 1915, pp. 472-473. Educ. 29

Education, School, College, University

- 1879 6. *The Princeton Journals*. *The Princeton Book. A Series of Sketches Pertaining to the History, Organization and Present Condition of the College of New Jersey*. By the Officers and Graduates of the College. 4to, Houghton, Osgood and Company (The Riverside Press, Cambridge, Mass.) 1879, pp. 401-411. Misc. 3
- 1890 49. A Reply to the Statement of Dec. 18th of the Committee on the Regulation of Athletic Sports of Harvard University, by the Princeton Advisory Committee and Foot Ball Managers. [As Chairman of Advisory Committee on Athletic Sports at Princeton University.] Privately Printed, Feb. 24, 1890, 14 pp. Educ. 1
- 1892-3 70. *Biology and Other Science in the Schools*. *Rept. Schoolmasters Assoc. of New York and Vicinity*, 1892-3, pp. 35-42. Educ. 2
- 1893 83. [As Dean.] *School of Pure Science*. Report of the Dean for the Academic Year Ending June 30, 1893. *Fourth Annual Report of President Low to the Trustees*, Oct. 2, 1893, pp. 141-149. Educ. 3
- 1893 87. A Three Year Course for the Degree (Ph.D.). Columbia University Miscellaneous Pub., 1893. Educ. 4
- 1894 88. *The Degree of Doctor of Philosophy*. Suggestions. Reported in Minutes of Columbia Univ. Council dated January 16, 1894. On file in office of Provost of the University with Secretary of University Council. Privately Printed for members of University Council only. Educ. 5
- 1894 93. [As Dean] *School of Pure Science*. Report of the Dean for the Academic Year ending June 30, 1894. *Fifth Annual Report of President Low to the Trustees*, Oct. 1, 1894, pp. 125-150. Educ. 6

- 1895 103. [As Dean] *School of Pure Science. Report of Dean for the Academic Year Ending June 30, 1895. Sixth Annual Report of President Low to the Trustees*, Oct. 7, 1895, pp. 151-181. Educ. 7
- 1896 109. *The Corner-Stones of Learning*. [Address on the laying of the Corner-stone of Schermerhorn Hall, Columbia University.] *Program of Dedication of the New Site, Morningside Heights*, May 2, 1896, pp. 43-49. Educ. 8
- 1896 111. *The World's Debt to Biology. The Chautauquan*, Vol. xxiii, No. 5, Aug., 1896, pp. 564-569. Educ. 9
- 1896 112. *The Aim and Method of Science Study in Schools Below the College. Biological Work in the High Schools*. [Discussion before the State Convocation at Albany, July.] *Regents Bulletin*, No. 36, Sept., 1896, pp. 62-64. Educ. 10
- 1897 132. *Zoology at Columbia. Columbia Univ. Bull.*, No. xviii, Dec., 1897, pp. 17-26. Educ. 11
- 1902 211. *A Sea Shore Laboratory [at Woods Hole, Mass.]. Harper's Monthly Magazine*, Vol. civ, No. dcxxii, Mar., 1902, pp. 552-558. Zool. 3

Museum Development, Plans, Administration, Education

- 1908 310. *Morris K. Jesup. Science*, N. S., Vol. xxvii, No. 684, Feb. 7, 1908, pp. 235-236. Biog. 15
- 1908 315. [As President] *Thirty-ninth Annual Report of the Trustees of The American Museum of Natural History [for the year 1907.]* 8vo, New York, May 9, 1908, 120 pp. Adm. 21
- 1908 316. *The Board of Trustees of the American Museum of Natural History adopted the following Minute at its Annual Meeting, held February the tenth one thousand Nine Hundred and Eight.* [Written by Henry F. Osborn, signed by J. Hampden Robb, Secretary of the Board.] *Resolutions in Appreciation of Morris Ketchum Jesup*, 4to, New York, May 11, 1908, pp. 3-6. Biog. 16
- 1908 320. *The American Museum and the Public Health. Introductory Remarks by the President of the American Museum of Natural History, at the opening of the International Tuberculosis Exhibition, November thirtieth, 1908.* Privately printed. Educ. 18
- 1909 329. [As President] *Fortieth Annual Report of the Trustees of The American Museum of Natural History for the year 1908.* New York, May 1, 1909, 118 pp. Adm. 23
- 1910 339. *History, Plan and Scope of the American Museum of Natural History.* 4to, New York, Feb. 14, 1910, 176 pp. Adm. 25
- 1910 340. *Memorial to the Late Morris Ketchum Jesup.* [Same address as above with a few alterations.] *Science*, N. S., Vol. xxxi, No. 792, Mar. 4, 1910, pp. 337-339. Biog. 22
- 1910 340. *Address of Welcome at Commemoration of the Founding of the American Museum of Natural History. Unveiling of the Statue of Morris K. Jesup. Amer. Mus. Journ.*, Vol. x, Mar., 1910, pp. 60-67. Biog. 22

- 1910 343. [As President] **Forty-first Annual Report of the Trustees of the American Museum of Natural History for the year 1909.** Issued May 1, 1910, 131 pp. **Adm. 26**
- 1911 351. [As President] **Forty-second Annual Report of the Trustees of the American Museum of Natural History for the year 1910.** Issued February 13, 1911, 144 pp. **Adm. 27**
- 1911 355. **Growth of the Building of the American Museum of Natural History. Plans for the Future Building and Arrangement of Collections.** [With the Administrative Staff.] Roy. 4to, New York, May 8, 1911, 23 pp. **Adm. 28**
- 1911 357. **History, Plan and Scope of the American Museum of Natural History,** 2nd edition. 8vo. New York, July, 1911, 148 pp. **Adm. 29**
- 1911 360. **The Museum of the Future.** *Amer. Museum Journ.*, Vol. xi, No. 7. November, 1911, pp. 223-225. **Adm. 30**
- 1911 363. [As President] **Forty-third Annual Report of the Trustees of the American Museum of Natural History for the year 1911.** Feb. 5, 1912, 173 pp. **Adm. 32**
- 1912 373. **Growth of the Building of the American Museum of Natural History. Plans for Future Building and Arrangement of Collections, with Statistics to Accompany Building Plans of the American Museum of Natural History.** Roy. 4to, 2d edition, May, 1912, 42 pp. **Adm. 33**
- 1912 375. **The Memory of George Borup an Inspiring Chapter in the History of the American Museum.** *Amer. Museum Journ.*, Vol. xii, No. 5, May, 1912, p. 156. **Educ. 24**
- 1912 383. **The State Museum and State Progress.** An Address delivered to the citizens and legislature at Albany, at the Dedication of the New York State Education Building, October 15, 1912. *Science*, N. S., Vol. xxxvi, No. 929, Oct. 18, 1912, pp. 493-504. **Educ. 25**
- 1913 388. [As President] **Forty-fourth Annual Report of the Trustees of the American Museum of Natural History for the Year 1912.** Feb. 3, 1913, 208 pp. **Adm. 34**
- 1913 394. **The American Museum and the Public Health.** Third Address, Introductory Remarks by the President of the American Museum of Natural History at the Public Meeting on April 16th, 1913, in the Interest of the Campaign for Civic Cleanliness Instituted by the New York City Department of Health and at the Opening of the Hall of Public Health of the American Museum of Natural History. Privately printed. 2 pp. **Educ. 26**
- 1913 395. **The Gifts of Mr. Morgan to the American Museum, with an Expression of Gratitude and Indebtedness by the Board of Trustees.** *Amer. Museum Journ.*, Vol. xiii, No. 4, April, 1913, pp. 157-158. **Misc. 11**
- 1913 397. **The Museum and Nature Study in the Public Schools.** [With George H. Sherwood.] *Misc. Publ. Am. Mus. Natural Hist.*, No. 3, May 19, 1913, 13 pp. [Appeared in part in *Ann. Report Am. Mus. Natural Hist.* for the year 1912.] **Educ. 27**

- 1914 405. [As President] **Forty-fifth Annual Report of the Trustees of the American Museum of Natural History for the Year 1913.** Feb. 2, 1914, 102 pp.
Adm. 35
- 1914 406. [Resolution of Board of Trustees of American Museum of Natural History to the Memory of John Pierpont Morgan.] Adopted at Special Meeting of the Board on April 4, 1913. *Forty-fifth Ann. Rept. Amer. Mus. Natural Hist.* Feb. 2, 1914, pp. 15-16. De Luxe edition for family and archives.
Misc. 12
- 1914 407. [Resolution of Board of Trustees of American Museum of Natural History to the Memory of George Sullivan Bowdoin.] Adopted at annual meeting of the Board, Feb. 2, 1914. *Forty-Fifth Annual Report of the Amer. Mus. Natural Hist.* Feb. 2, 1914, p. 88. De Luxe edition for family and archives.
Misc. 13
- 1914 414. **The Museum of the American People.** The Morris K. Jesup [Endowment Fund of Five Million Dollars, A Recent Bequest of Mrs. Jesup, Restricted to Educational and Scientific Work. Maintenance and Building of the Institution Still in the Hands of the Citizens of New York City According to the Original Purpose of Foundation. *Amer. Museum Journ.* Vol. xiv, Nos. 6-7, Oct.-Nov. 1914, pp. 219-220.
Adm. 36
- 1915 415. [As President] **Forty-sixth Annual Report of the Trustees of the American Museum of Natural History for the Year 1914.** Feb. 1, 1915, 192 pp., 1 map, 17 pls.
Adm. 37

Zoölogical Park, Development, Plans, Education

- 1896 115. **Preliminary Plan for the Prosecution of the Work of the Zoological Society.** Submitted to the Executive Committee, November 26, 1895 [with C. Grant La Farge & Andrew H. Green], pp. 3-8 of *N. Y. Zool. Soc. Reports on Site of Garden.* Printed by order of the Bd. of Managers for Distribution among Managers only, not to be given to the Press or Public. Forest & Stream Publishing Co., 1896. 20 pp.
Adm. 1
- 1897 118. [As Chairman] **Report of the Executive Committee to the Board of Managers.** [With other members, for the year 1906.] *First Ann. Rept. New York Zoological Society*, Mar. 15, 1897, pp. 23-25. Adm. 2
- 1898 139. [As Chairman.] **Report of the Executive Committee to the Board of Managers for the Year 1897.** [With Madison Grant, Sec'y.] *Second Ann. Rept. New York Zoological Society*, Mar. 15, 1898, pp. 23-39.
Adm. 3
- 1898 149. **The New York Zoological Park.** *Science*, N. S., Vol. vii, No. 179, June 3, 1898, pp. 759-764.
Adm. 4
- 1899 167. [As Chairman.] **Report of the Executive Committee to the Board of Managers.** [With Madison Grant, Secretary.] *Third Ann. Report New York Zoological Society*, May 1, 1899, pp. 25-38. Adm. 6
- 1900 183. [As Chairman.] **Report of the Executive Committee to the Board of Managers for the Year 1899.** [With Levi P. Morton and other mem-

- bers.] *Fourth Ann. Rept. New York Zoological Society*, May, 1900, pp. 27-41. Adm. 8
- 1900 184. [Address of welcome at the Opening of the New York Zoological Park.] *Fourth Ann. Rept. New York Zoological Society*, May, 1900, pp. 76-78. Adm. 9
- 1900 185. **Progress of the New York Zoological Park.** *Science*, N. S., Vol. xi, No. 286, June 22, 1900, pp. 963-965. Adm. 10
- 1901 198. [As Chairman.] **Report of the Executive Committee of the Board of Managers of the New York Zoological Society for the year 1900.** [With other members.] *Fifth Ann. Report New York Zoological Society*, June 1, 1901, pp. 33-42. Adm. 12
- 1902 213. [As Chairman] **Report of the Executive Committee.** [With other members, for the year 1901.] *Sixth Ann. Rept. New York Zoological Soc.*, Apr. 1, 1902, pp. 35-43. Adm. 13
- 1903 225. **The New York Zoological Park and Aquarium.** *Science*, N. S., Vol. xvii, No. 424, Feb. 13, 1903, pp. 265-267. Adm. 14
- 1903 230. [As Chairman] **Report of the Executive Committee for the year 1902.** [With other members.] *Seventh Ann. Rept. New York Zoological Society*, Apr. 1, 1903, pp. 33-49. Adm. 15
- 1903 235. **New York Zoological Park.** *Science*, N. S., Vol. xviii, No. 450, Aug. 14, 1903, pp. 218-219. Adm. 17
- 1903 237. **A World's Congress of Lions, the Lion-House in the New York Zoological Park.** *The Century Magazine*, Vol. lxvii, No. 1, 1903, pp. 79-84. Zoöl. 4
- 1908 309. [As Chairman.] **Report of the Executive Committee to the Board of Managers.** [For the year 1907, with other members.] *Twelfth Annual Report of the New York Zoological Society*, Jan. 1908, pp. 29-39. Adm. 20
- 1909 322. [As Chairman] **Report of the Executive Committee to the Board of Managers.** [For the year 1908, with other members.] *Thirteenth Annual Report of the New York Zoological Society*, Jan., 1909, pp. 31-43. Adm. 22
- 1910 338. [What the Zoological Society will do With the \$1,000,000 Fund now Being Raised.] *The New York Press*, Jan. 20, 1910, p. 6. Adm. 24
- 1913 386. **The Wild Equines of the Zoological Park.** *Zool. Soc. Bull.*, Vol. xvi, No. 55, January, 1913, pp. 941-948. Zoöl. 11

MISCELLANEOUS

- 1885 21. **A Simple Method of Injecting the Arteries and Veins in Small Animals.** *Amer. Naturalist*, Vol. xix, No. 9, Sept., 1885, pp. 920-921. Zoöl. 1
96. **A Visit to the Exhibit of the New York Academy of Sciences.** *Scientific American*, Vol. lxxii, No. 15, Apr. 13, 1895, pp. 233-234. Misc. 5

AUTOBIOGRAPHIC NOTES OF THE AUTHOR

- 1871 1. **The Boys' Journal** [with others]. Vol. 1, No. 1, dated Mar. 1, 1871. 13 numbers were published. Editorship and many of the articles. Misc. 1

- 1877 2. [Letter to Editor of *Princetonian*.] *The Princetonian*, Vol. 1, No. 12, Feb. 8, 1877, pp. 6-7. **Misc. 2**
- 1898 160. [Address at Twentieth Re-Union of Class of '77 Princeton.] "*After Twenty Years*," *the Record of the Class of 1877*. Printed, not published, Trenton, N. J., 1898, pp. 72-75. **Misc. 6**
- 1903 232. [Address on the occasion of the dedication of the Fairfield Memorial Library, June 11, 1903.] 12mo, privately printed, 1903. **Educ. 15**
- 1906 288. [Letter Relating to Secretaryship of Smithsonian Institution.] *Science*, N. S., Vol. xxiv, No. 625, Dec. 21, 1906, pp. 825-826. **Adm. 19**
- 1907 291. [Address at the Quarter Century Re-Union of the Class of '77, Princeton, June, 1902.] "*An Account of the Quarter-Century Celebration of the Class of '77*" [*Princeton Univ.*]. Printed, not published, Trenton, N. J., Mar. 1, 1907, pp. 51-57. **Misc. 7**
- 1909 337. [Address at Thirtieth Re-Union of Class of '77, Princeton] "*After Thirty Years, Record of the Class of 1877 Princeton University*." Printed, not published, Trenton, N. J., 1909, pp. 45-47. **Misc. 9**
- 1911 359. **Bibliography of the Published Writings of Henry Fairfield Osborn for the Years 1877-1910.** Compiled by H. Ernestine Ripley. Privately printed, issued November 13, 1911, 27 pp. Second ed. 1877-1915, issued November, 1916. **Biog. 24**

BIBLIOGRAPHY
OF THE
PUBLISHED WRITINGS
OF
HENRY FAIRFIELD OSBORN
FOR THE YEARS
1877*-1915

Part II. Chronologic Arrangement

-
- 1877 2. [Letter to Editor of Princetonian.] *The Princetonian*, Vol. 1, No. 12, Feb. 8, 1877, pp. 6-7. Misc. 2
- 1878 3. Palæontological Report of the Princeton Scientific Expedition of 1877. [With W. B. Scott and Francis Speir, Jr.] *Contr. E. M. Mus. of Geol. and Archæol. Princeton Coll.* [Coll. of New Jersey] No. 1, Sept. 1, 1878, pp. 7-106, pll. A and i-x. Pal. 1
- 1879 4. The Lower jaw of *Loxolophodon*. [With Francis Speir, Jr.] *Amer. Journ. Sci.*, 3d Ser., Vol. xvii, No. 100, 1879, pp. 304-9. Pal. 2
5. On Some Points in the Early Development of the Common Newt. [With W. B. Scott.] *Quart. Journ. Micros. Sci.*, Vol. xix, N. S., Oct. 1879, pp. 449-475, pll. xx-xxi. Embr. 1
6. The Princeton Journals. *The Princeton Book. A Series of Sketches Pertaining to the History, Organization and Present Condition of the College of New Jersey.* By the Officers and Graduates of the College. 4to, Houghton, Osgood and Company (The Riverside Press, Cambridge, Mass.) 1879, pp. 401-411. Misc. 3
- 1880 7. Questions upon the Visualizing and other Allied Faculties. [With Francis Galton, F.R.S.] Privately printed, New York, Sept. 1st, 1880. 2-page leaflet. Psych. 1
- 1881 8. A Memoir upon *Loxolophodon* and *Uintatherium*, Two Genera of the Sub-Order *Dinocerata*. Accompanied by a Stratigraphical Report of the Bridger Beds in the Washakie Basin by John Bach McMaster. *Contr. E. M. Mus. of Geol. and Archæol. Coll. of New Jersey* [Princeton], Vol. i, No. 1, 1881, pp. 5-54, pll. i-iv, 2 maps. Pal. 3
- 1882 9. *Orthocynodon*, an animal related to the *Rhinoceros*, from the Bridger
-
- *1871 1. *The Boys' Journal* [with others]. Vol. 1, No. 1, dated Mar. 1, 1871. 13 numbers were published. Editorship and many of the articles. Misc. 1

- Eocene.** [With W. B. Scott.] *Amer. Journ. Sci.*, Vol. xxiv (3), No. 141, Sept., 1882, pp. 223-225. **Pal. 4**
- 1883 10. I. **On the Skull of the Eocene Rhinoceros, Orthocynodon, and the Relation of this Genus to Other Members of the Group.** [With W. B. Scott.] *Contr. E. M. Mus. of Geol. and Archæol. Princeton Coll. Bull.* No. 3, May, 1883, pp. 1-22. **Pal. 5**
11. II. **On Achænodon, an Eocene Bunodont.** *Contr. E. M. Mus. of Geol. and Archæol. Princeton Coll. Bull.* No. 3, May, 1883, pp. 23-35. **Pal. 6**
12. **Preliminary Observations upon the Brain of Amphiuma.** *Proc. Acad. Nat. Sci. Phila.*, Vol. xxxv, Pt. II, June-Oct., 1883, pp. 177-186. *Abstr. Amer. Naturalist*, Vol. xix, No. 3, Mar., 1885, pp. 328-330. **Neur. 1**
13. **Observations upon the Fœtal Membranes of the Opossum and other Marsupials.** *Quart. Journ. Micros. Sci.*, Vol. xxiii, N. S., 1883, pp. 473-484. *Abstr. Proc. Amer. Assoc. Adv. Sci.*, Vol. xxxvi, Mar., 1888 (meeting of Aug., 1887), pp. 261-262. *Abstr. Science*, Vol. 1, No. 16, May 25, 1883, pp. 451-452. **Embr. 2**
14. **Francis Maitland Balfour.** *Science*, Vol. ii, No. 31, Sept. 7, 1883, pp. 299-301. **Biog. 1**
- 1884 15. **A Study of the Mind's Chamber of Imagery.** [With James McCosh.] *Princeton Review*, Vol. 13, Jan.-June, 1884, pp. 50-72. **Psych. 2**
16. [Review.] **Record of Family Faculties.—Life History Album**, by Francis Galton, F.R.S., London and New York, Macmillan & Co., 1884. *The Nation*, Vol. 38, No. 980, Apr. 10, 1884, pp. 326-327. **Misc. 4**
17. **Illusions of Memory.** *North American Review*, May, 1884, pp. 476-486. **Psych. 3**
18. **Visual Memory.** *The Journ. of Christian Philosophy*, Vol. iii, No. 4, July, 1884, pp. 439-450. **Psych. 4**
19. **Preliminary Observations upon the Brain of Menopoma.** *Proc. Acad. Nat. Sci. Phila.*, Vol. xxxvi, Pt. II, May-Oct., 1884, pp. 262-274. *Abstr. Amer. Naturalist*, Vol. xix, No. 3, Mar., 1885, pp. 328-330. **Neur. 2**
20. **Professor Arnold Guyot.** *The Princetonian*, Vol. viii, 1883-84, p. 308. **Biog. 2**
- 1885 21. **A Simple Method of Injecting the Arteries and Veins in Small Animals.** *Amer. Naturalist*, Vol. xix, No. 9, Sept., 1885, pp. 920-921. **Zoöl. 1**
22. **The Development of the Brain.** *Reference Handbook of the Medical Sciences*, Vol. i, First Edition, 1885, pp. 633-642. **Neur. 3**
- 1886 23. **Observations upon the presence of the Corpus Callosum in the brain of Amphibians and Reptiles.** *Zool. Anz.*, Band ix, No. 219, Mar. 29, 1886, pp. 200-205. **Neur. 4**
24. **The Origin of the Corpus Callosum. A Contribution upon the Cerebral Commissures of the Vertebrata.** *Morph. Jahrb.*, Band xii, 1886, Pt. i, pp. 223-247, and Pt. ii, pp. 530-543, pll. xiii, xiv, xxv. **Neur. 5**

25. Note upon the Cerebral Commissures in the lower Vertebrata and a probable fornix rudiment in the Brain of *Tropidonotus*. *Zool. Anz.*, Band ix, No. 233, Sept. 27, 1886, pp. 577-578. Neur. 6
26. Observations upon the Upper Triassic Mammals, *Dromatherium* and *Microconodon*. *Proc. Acad. Nat. Sci. Phila.*, Vol. xxxviii, Pt. iii, Oct.-Dec., 1886, pp. 359-363. Pal. 7
27. [Letter to Professor Edward D. Cope endorsing the completion by U. S. Geol. Survey of his work on the Tertiary Vertebrata.] Nov. 22, 1886, p. 4. Privately printed by Professor Cope with similar letters from other leading palæontologists. Pal. 8
- 1887 28. A Pineal Eye in the Mesozoic Mammalia. *Science*, Vol. ix, No. 208, Jan. 28, 1887, p. 92. Pal. 9
29. The Pineal Eye in *Tritylodon*. *Science*, Vol. ix, No. 209, Feb. 4, 1887, p. 114. Pal. 10
30. Preliminary Account of the Fossil Mammals from the White River Formation contained in the Museum of Comparative Zoology. [With W. B. Scott.] *Bull. Mus. of Comp. Zool.*, Vol. xiii, No. 5, Sept., 1887, pp. 151-171, pll. i-ii. Pal. 11
31. The Relation of the Dorsal Commissures of the Brain to the Formation of the Encephalic Vesicles. *Amer. Naturalist*, Vol. xxi, No. 10, Oct., 1887, pp. 940-941. Abstr. *Proc. Amer. Assoc. Adv. Sci.*, Vol. xxxvi, Mar., 1888 (meeting of Aug., 1887), p. 262. Neur. 7
32. Note upon the Genus *Athrodon*. *Amer. Naturalist*, Vol. xxi, No. 11, Nov., 1887, p. 1020. Pal. 12
33. The Origin of the Tritubercular Type of Mammalian Dentition. *Science*, Vol. x, No. 254, Dec. 16, 1887, p. 300. Pal. 13
34. The Fœtal Membranes of the Marsupials. *Journ. of Morphology*, Vol. i, No. 2, Dec., 1887, pp. 373-382, pl. xvii. Embr. 3
35. The Triassic Mammals, *Dromatherium* and *Microconodon*. *Proc. Amer. Phil. Soc.*, Vol. xxiv, No. 125, Jan.-June, 1887, pp. 109-111, 1 pl. Pal. 14
36. [Abstr.] On the Structure and Classification of the Mesozoic Mammalia. *Proc. Acad. Nat. Sci. Phila.*, Vol. xxxix, Pt. ii, Apr.-Aug., 1887, pp. 282-292 (published, Nov., 1887). Pal. 15
37. Preliminary Report on the Vertebrate Fossils of the Uinta Formation collected by the Princeton Expedition of 1886. [With W. B. Scott.] *Proc. Amer. Phil. Soc.*, Vol. xxiv, No. 126, July-Dec., 1887, pp. 255-264. Pal. 16
- 1888 38. The Melychoid Groove in the Mesozoic and Recent Mammalia. *Amer. Naturalist*, Vol. xxii, No. 253, Jan., 1888, pp. 75-76. Pal. 17
39. Report of the Committee on Anatomical Nomenclature, with Special Reference to the Brain. [With Frank Baker.] *Proc. Amer. Assoc. Adv. Sci.*, Vol. xxxvi, Mar., 1888 (meeting of Aug., 1887), p. 56. Neur. 8
40. A Review of Mr. Lydekker's Arrangement of the Mesozoic Mammalia. *Amer. Naturalist*, Vol. xxii, No. 255, Mar., 1888, pp. 232-236. Pal. 18

41. A Contribution to the Internal Structure of the Amphibian Brain. *Journ. of Morph.*, Vol. ii, No. 1, July, 1888, pp. 51-96, pll. iv-vi. **Neur. 9**
42. On the Structure and Classification of the Mesozoic Mammalia. *Journ. Acad. Nat. Sci. Phila.*, Vol. ix, 2d ser., Art. v, July 25, 1888, pp. 186-265, pll. viii, ix. *Abstr. Nature*, Vol. xxxviii, Oct. 25, 1888, pp. 611-614. **Pal. 19**
43. The Nomenclature of the Mammalian Molar Cusps. *Amer. Naturalist*, Vol. xxii, No. 262, Oct., 1888, pp. 926-928. **Odont. 1**
44. Additional Observations upon the Structure and Classification of the Mesozoic Mammalia. *Proc. Acad. Nat. Sci. Phila.*, Vol. xl, Pt. iii, Oct.-Dec., 1888, pp. 292-301, pll. xxv, xxvi. **Pal. 20**
45. The Evolution of Mammalian Molars to and from the Tritubercular Type. *Amer. Naturalist*, Vol. xxii, No. 264, Dec., 1888, pp. 1067-1079. *Abstr. Rept. Brit. Assoc. Adv. Sci.*, 1889 (58th meeting, Bath, 1888), p. 660. **Odont. 2**
- 1889 46. The Palæontological Evidence for the Transmission of Acquired Characters. *Amer. Naturalist*, Vol. xxiii, No. 271, July, 1889, pp. 561-566. *Proc. Amer. Assoc. Adv. Sci.*, Vol. 38, July, 1890 (meeting, Toronto, Aug., 1889), pp. 273-276. *Rept. Brit. Assoc. Adv. Sci.*, 1890 (59th meeting, Newcastle-upon-Tyne, 1889), pp. 621-623. **Evol. 1**
- 1890 47. The Palæontological Evidence for the Transmission of Acquired Characters. *Nature*, Vol. xli, Jan. 9, 1890, pp. 227-228. **Evol. 2**
48. Evolution and Heredity. Biological Lectures, Marine Biological Laboratory, Woods Hole, 1890, Ginn & Company, Boston, pp. 130-141. **Evol. 3**
49. A Reply to the Statement of Dec. 18th of the Committee on the Regulation of Athletic Sports of Harvard University, by the Princeton Advisory Committee and Foot Ball Managers. [As Chairman of Advisory Committee on Athletic Sports at Princeton University.] Privately Printed, Feb. 24, 1890, 14 pp. **Educ. 1**
50. Preliminary Account of the Fossil Mammals from the White River and Loup Fork Formations, contained in the Museum of Comparative Zoology, Part II. [Carnivora and Artiodactyla by Scott, Perissodactyla by Osborn.] *Bull. Mus. of Comp. Zool.*, Vol. xx, No. 3, Nov., 1890, pp. 65-100, pll. i-iii. **Pal. 21**
51. The Mammalia of the Uinta Formation. [Parts i and ii, Scott; Parts iii and iv, Osborn.] III. The Perissodactyla. IV. The Evolution of the Ungulate Foot. *Trans. Amer. Phil. Soc.*, N. S., Vol. xvi, Pt. iii, 1890, pp. 461-572, pll. vii-x. *Abstr. Nature*, by R. L., Vol. 43, No. 1104, Dec. 25, 1890, pp. 177-179. **Pal. 22**
52. A Review of the Cernaysian Mammalia. [Upon the Collection of M. Lemoine, Rheims, France.] *Proc. Acad. Nat. Sci. Phila.*, Vol. xlii, May 13, 1890, pp. 51-62. **Pal. 23**
- 1891 53. Are Acquired Variations Inherited? [Opening a Discussion upon the Lamarckian Principle in Evolution. American Society of Naturalists,

- Boston, Dec. 31, 1890.] *Amer. Naturalist*, Vol. xxv, No. 291, Mar., 1891, pp. 191-216. Evol. 4
54. **The Present Problem of Heredity.** *Atlantic Monthly*, Vol. lxxvii, No. 401, Mar., 1891, pp. 353-364. Evol. 5
55. **A Review of the Cretaceous Mammalia.** [Review of Marsh's "Discovery of the Cretaceous Mammalia" Pts. I and II. (*Amer. Journ. Sci.*, Vol. xxxviii, 3d Ser. (whole No. cxxxviii), 1889, No. 223, pp. 81-90, No. 224, pp. 177-180).] Presented to the Soc. of Morphologists, Boston, Dec. 30, 1890, to the Acad. of Natural Sciences of Philadelphia, Tuesday, Jan. 20, 1891, to the Biological Society of Washington, Feb. 6, 1891. *Abstr. Am. Naturalist*, Vol. xxv, No. 289, Jan., 1891, pp. 44-45. *Proc. Acad. Nat. Sci. Phila.*, Vol. xliii, Apr. 15, 1891, pp. 124-135. *Amer. Naturalist*, Vol. xxv, No. 295, July, 1891, pp. 595-611. Pal. 24
56. **A Reply to Professor Marsh's "Note on Mesozoic Mammalia."** *Amer. Naturalist*, Vol. xxv, No. 297, Sept., 1891, pp. 775-783. Pal. 25
57. **Meniscotheriidae and Chalicotherioidea.** *Amer. Naturalist*, Vol. xxv, No. 298, Oct., 1891, pp. 911-912. Pal. 26
- 1892 58. **The Cartwright Lectures for 1892 before the Alumni of the College of Physicians and Surgeons, New York.—Present Problems in Evolution and Heredity.** 1. The Contemporary Evolution of Man. 2. Difficulties in the Heredity Theory. 3. Heredity and the Germ Cells. *Medical Record*, Vol. 41, 1892, No. 8 (whole No. 1111), Feb. 20, pp. 197-204, No. 10 (whole No. 1113), Mar. 5, pp. 253-261, No. 17 (whole No. 1120), Apr. 23, pp. 449-456, No. 20 (whole No. 1123), May 14, pp. 533-534. *Amer. Naturalist*, Vol. xxvi, No. 306, June, 1892, pp. 455-481; No. 307, July, pp. 537-567; No. 308, Aug., pp. 642-670. Evol. 6
59. **Nomenclature of Mammalian Molar Cusps.** *Amer. Naturalist*, Vol. xxvi, No. 305, May, 1892, pp. 436-437. Odont. 3
60. **Palæonictis in the American Lower Eocene.** *Nature*, Vol. 46, No. 1176, May 12, 1892, p. 30. Pal. 27
61. **The Ancestry of Chalicotherium.** *Science*, Vol. xix, No. 484, May 13, 1892, p. 276. Pal. 28
62. **Is Meniscotherium a Member of the Chalicotherioidea?** *Amer. Naturalist*, Vol. xxvi, No. 306, June, 1892, pp. 506-509. Pal. 29
63. [Review.] **Odontogenesis in the Ungulates.** *Amer. Naturalist*, Vol. xxvi, No. 307, July, 1892, pp. 621-623. Odont. 4
64. [Abstr.] **A Reply to Professor Marsh's "Note on Mesozoic Mammalia."** *Proc. Amer. Assoc. Adv. Sci.*, Vol. xl, July, 1892, p. 290 (meeting of Aug., 1891). Pal. 30
65. **What is Lophiodon?** *Amer. Naturalist*, Vol. xxvi, No. 309, Sept., 1892, pp. 763-765. Pal. 31
66. [Review.] **Darwin Expounded by Romanes.** *N. Y. Nation*, Vol. 55, No. 1423, Oct. 6, 1892, p. 266. Evol. 7

67. Fossil Mammals of the Wahsatch and Wind River Beds. Collection of 1891. [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. iv, Art. xi, Oct. 20, 1892, pp. 81-147. Pal. 32
68. The History and Homologies of the Human Molar Cusps. *Anat. Anz.*, vii Jahrg., Nos. 23, 24, 1892, pp. 740-747. Odont. 5
69. Characters of Protoceras (Marsh), the New Artiodactyl from the Lower Miocene. [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. iv, Art. xviii, Dec. 30, 1892, pp. 351-371. Pal. 33
70. Biology and Other Science in the Schools. *Rept. Schoolmasters Assoc. of New York and Vicinity*, 1892-3, pp. 35-42. Educ. 2
71. Sur La Découverte du Palæonictis en Amérique. *Bull. Soc. Géol. de France*, Sér. 3, T. xx, No. 7, 1892, pp. 434-436. Pal. 34
- 1893 72. Artionyx, a New Genus of Ancylopoda. [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. v, Art. i, Feb., 1893, pp. 1-18. Pal. 35
73. The Ancylopoda, Chalicotherium and Artionyx. *Amer. Naturalist*, Vol. xxvii, No. 314, Feb., 1893, pp. 118-133. Pal. 36
74. Protoceras, the New Artiodactyl. *Nature*, Vol. 47, No. 1214, Feb. 2, 1893, pp. 321-322. Pal. 37
75. [Abstr.] Protoceras celer. *Anat. Anz.*, Jahrg. viii, No. 4, Jan. 18, 1893, p. 128 [report of meeting of N. Y. Acad. Sci.]. Pal. 38
76. [Abstr.] Foot of Artionyx. *Trans. N. Y. Acad. Sci.*, Vol. xii, Mar. 25, 1893, pp. 95, 96. *Anat. Anz.*, Jahrg. viii, Nos. 10, 11, Apr. 8, 1893, p. 368 [report of meeting of N. Y. Acad. Sci.]. Pal. 39
77. Artionyx—A Clawed Artiodactyl. *Nature*, Vol. 47, No. 1226, Apr. 27, 1893, pp. 610-611. Pal. 40
78. Aceratherium tridactylum from the Lower Miocene of Dakota. *Bull. Amer. Mus. Nat. Hist.*, Vol. v, Art. vii, April 29, 1893, pp. 85-86. Pal. 41
79. The Collection of Fossil Mammals in the American Museum of Natural History, New York. *Science*, Vol. xxi, No. 536, May 12, 1893, p. 261. Pal. 42
80. Recent Researches upon the Succession of Teeth in Mammals. *Amer. Naturalist*, Vol. xxvii, No. 318, June, 1893, pp. 493-508. Abstr. *Trans. N. Y. Acad. Sci.*, Vol. xii, June 6, 1893, pp. 187-188. *Nature*, Vol. 48, No. 1236, July 6, 1893, p. 238. Odont. 6
81. Heredity in the Ovum and Spermatozoön. *Reference Handbook of the Medical Sciences*, Supplement to Vol. ix, 1893, pp. 396-408. Evol. 8
82. Rise of the Mammalia in North America. [Vice-Presidential Address Before the American Association for the Advancement of Science. Section of Zoölogy, Madison, Wis., Aug. 17, 1893.] Abstr. *Nature*, Vol. 48, No. 1246, Sept. 14, 1893, p. 462. *Amer. Journ. Sci.*, 3d Ser., Vol. xlvi, No. 275, Nov., and No. 276, Dec., 1893, pp. 379-392, 448-466, pll. v-x. *Proc. Amer. Assoc. Adv. Science*, Vol. 42, 1894, pp. 189-227 (meeting Aug., 1893, Madison, Wis.). *Studies from the Biol. Laboratories of Columbia College*, Vol. i, No. 2, 1893, pp. 61-103. Pal. 43

83. [As Dean.] School of Pure Science. Report of the Dean for the Academic Year Ending June 30, 1893. *Fourth Annual Report of President Low to the Trustees*, Oct. 2, 1893, pp. 141-149. Educ. 3
84. [Review.] Darwin and After Darwin, An Exposition of the Darwinian Theory and a Discussion of Post-Darwinian Questions (Vol. I. The Darwinian Theory)—by George John Romanes, M.A., LL.D., F.R.S., Chicago: Open Court Publ. Co., 1892, pp. xiv, 460. *Educational Review*, Nov. 1893, pp. 390-391. Evol. 9
85. Fossil Mammals of the Upper Cretaceous Beds. *Bull. Amer. Mus. Nat. Hist.*, Vol. v, Art. xvii, Dec. 15, 1893, pp. 311-330, pll. vii-viii. Pal. 44
86. Alte und Neue Probleme der Phylogenese. *Ergebnisse der Anatomie und Entwicklungsgeschichte* (von Fr. Merkel u. R. Bonnet, Göttingen), Band iii, 1893, pp. 584-619. Evol. 10
87. A Three Year Course for the Degree (Ph.D.). Columbia University Miscellaneous Pub., 1893. Educ. 4
- 1894 88. The Degree of Doctor of Philosophy. Suggestions. Reported in Minutes of Columbia Univ. Council dated January 16, 1894. On file in office of Provost of the University with Secretary of University Council. Privately Printed for members of University Council only. Educ. 5
89. A Division of the Eutherian Mammals into the Mesoplacentalia and Cenoplacentalia [terms subsequently altered to *Meseutheria* and *Ceneutheria*.] *Trans. N. Y. Acad. Sci.*, Vol. xiii, June 4, 1894, pp. 234-237. Pal. 45
90. Fossil Mammals of the Lower Miocene White River Beds. Collection of 1892. [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. vi, Art. vii, July 28, 1894, pp. 199-228, pll. ii-iii. Pal. 46
91. FROM THE GREEKS TO DARWIN. AN OUTLINE OF THE DEVELOPMENT OF THE EVOLUTION IDEA. Vol. I of the Columbia University Biological Series, 8vo. Macmillan & Co., Aug. 17, 1894, pp. 259. Reprinted Sept., 1896, December, 1899, December, 1902, November, 1905, October, 1908. Italian translation: *Dai Greci a Darwin. Disegno Storico dello Sviluppo dell'idea dell'Evoluzione*. Translator, Dr. Giuseppe Nobili, Assistente al Museo Zoologico dell'Università di Torino. 8vo. Torino, 1901. Evol. 11
92. Certain Principles of Progressively Adaptive Variation Observed in Fossil Series. *Rept. Brit. Assoc. Adv. Sci.*, 1894, p. 693 (title). *Nature*, Vol. 50, No. 1296, Aug. 30, 1894, p. 435. Evol. 12
93. [As Dean] School of Pure Science. Report of the Dean for the Academic Year ending June 30, 1894. *Fifth Annual Report of President Low to the Trustees*, Oct. 1, 1894, pp. 125-150. Educ. 6
- 93a. [Preface to "Amphioxus and the Ancestry of the Vertebrates" by Arthur Willey.] *Columbia University Biological Series II*, Macmillan & Co., 1894, pp. vii-ix. Zool. 1a
- 1895 94. Environment in its Influence upon the Successive Stages of Development and as a Cause of Variation. [Opening discussion before the American Society of Naturalists, Baltimore, Dec. 27, 1894.] *Science*, N. S., Vol. I, No. 2, Jan. 11, 1895, pp. 35-36. Evol. 13

95. **Fossil Mammals of the Puerco Beds. Collection of 1892.** [With Charles Earle.] *Bull. Amer. Mus. Nat. Hist.*, Vol. vii, Art. i, Mar. 8, 1895, pp. 1-70. Pal. 47
96. **A Visit to the Exhibit of the New York Academy of Sciences.** *Scientific American*, Vol. lxxii, No. 15, Apr. 13, 1895, pp. 233-234. Misc. 5
97. **The Hereditary Mechanism and the Search for the Unknown Factors of Evolution.** *Biol. Lectures, Marine Biol. Lab. of Woods Holl, 1894*, Ginn & Co., Boston, 1895. *Amer. Naturalist*, Vol. xxix, No. 341, May, 1895, pp. 418-439. Evol. 14
98. **Fossil Mammals of the Uinta Basin. Expedition of 1894.** *Bull. Amer. Mus. Nat. Hist.*, Vol. vii, Art. ii, May 18, 1895, pp. 71-105. Pal. 48
99. **Joints in the Vertebrate Skeleton.** [Review of "The Origin of the forms of Joints in the Vertebrate Skeleton," by Gustav Tornier, 1895.] *Science*, N. S., Vol. i, No. 21, May 24, 1895, pp. 581-582. Pal. 49
100. **The History of the Cusps of the Human Molar Teeth.** [Address at the Founding of the New York Institute of Stomatology.] *International Dental Journal*, July, 1895, pp. 1-26, pl. AA. Odont. 7
101. [Review.] **Richard Owen and the Evolution Movement.** "The Life of Richard Owen." By Rev. Richard Owen. *The Nation*, Vol. 61, No. 1569, July 25, 1895, pp. 66-67. Evol. 15
102. **Vertebrate Paleontology in the American Museum.** *Science*, N. S., Vol. ii, No. 33, Aug. 16, 1895, pp. 178-179. Pal. 50
103. [As Dean] **School of Pure Science. Report of Dean for the Academic Year Ending June 30, 1895.** *Sixth Annual Report of President Low to the Trustees*, Oct. 7, 1895, pp. 151-181. Educ. 7
104. **Memorial Tribute to Professor Huxley.** [Address before the Biological Section of New York Academy of Sciences. Nov. 11, 1895.] *Trans. N. Y. Acad. Sci.*, Vol. xv, 1895-96, Sig. dated Jan. 14, 15, 1896, pp. 40-50. *Science*, N. S., Vol. iii, No. 57, Jan. 31, 1896, pp. 147-154. Biog. 3
105. **Perissodactyls of the Lower Miocene White River Beds.** [With J. L. Wortman.] *Bull. Amer. Mus. Nat. Hist.*, Vol. vii, Art. xii, Dec. 23, 1895, pp. 343-375, pll. viii-xi. Pal. 51
- 1896 106. **A Student's Reminiscences of Huxley.** *Biol. Lectures, Marine Biol. Lab. of Woods Holl, Ginn & Co., Boston, 1896*, pp. 29-42. Biog. 4
107. **Titanotheres of the American Museum of Natural History.** *Amer. Naturalist*, Vol. xxx, No. 350, Feb., 1896, pp. 162-163 (Secretary's rept. session of the N. Y. Acad. Sci., Dec. 9, 1895.) *Abstr. Anat. Anz.*, Bd. xl, No. 16-17, Jan. 27, 1896, p. 512, and *Zool. Anz.*, xix Bd., No. 494, Jan. 30, 1896, p. 48. Pal. 52
108. [Abstr.] **A Mode of Evolution requiring neither Natural Selection nor the Inheritance of Acquired Characters.** *Trans. N. Y. Acad. Sci.*, Vol. xv, March 9 and Apr. 13, 1896, pp. 141-142, 148. Evol. 16
109. **The Corner-Stones of Learning.** [Address on the laying of the Corner-stone of Schermerhorn Hall, Columbia University.] *Program of Dedi-*

- cation of the New Site, Morningside Heights*, May 2, 1896, pp. 43-49. Educ. 8
110. **The Cranial Evolution of Titanotherium.** *Bull. Amer. Mus. Nat. Hist.*, Vol. viii, Art. ix, July 31, 1896, pp. 157-197. Pal. 53
111. **The World's Debt to Biology.** *The Chautauquan*, Vol. xxiii, No. 5, Aug., 1896, pp. 564-569. Educ. 9
112. **The Aim and Method of Science Study in Schools Below the College. Biological Work in the High Schools.** [Discussion before the State Convocation at Albany, July.] *Regents Bulletin*, No. 36, Sept., 1896, pp. 62-64. Educ. 10
113. **Prehistoric Quadrupeds of the Rockies.** *Century Magazine*, Vol. lii, No. 5, Sept. 1896, pp. 705-715. Pal. 54
114. **Ontogenic and Phylogenetic Variation.** *Science*, N. S., Vol. iv, No. 100, Nov. 27, 1896, pp. 786-789. Evol. 17
115. **Preliminary Plan for the Prosecution of the Work of the Zoological Society.** Submitted to the Executive Committee, November 26, 1895 [with C. Grant La Farge & Andrew H. Green], pp. 3-8 of *N. Y. Zool. Soc. Reports on Site of Garden*. Printed by order of the Bd. of Managers for Distribution among Managers only, not to be given to the Press or Public. Forest & Stream Publishing Co., 1896. 20 pp. Adm. 1
- 1897 116. **Lambdotherium not related to Palæosyops or the Titanotheres.** *Amer. Naturalist*, Vol. xxxi, No. 361, Jan., 1897, pp. 55-57. Pal. 55
117. **Goode as a Naturalist.** [Address at the G. Brown Goode Memorial Meeting, U. S. National Museum, February 13.] *Science*, N. S., Vol. v, No. 114, March 5, 1897, pp. 373-378. Biog. 5
118. [As Chairman] **Report of the Executive Committee to the Board of Managers.** [With other members, for the year 1906.] *First Ann. Rept. New York Zoological Society*, Mar. 15, 1897, pp. 23-25. Adm. 2
119. **The Origin of the Teeth of the Mammalia.** [Relations of the Triconodonta and Protodonta, Osborn, Multituberculata, Cope, to the South African Cynodontia and Gomphodontia, described by Seeley.] *Science*, N. S., Vol. v, No. 119, April 9, 1897, pp. 576-577. Pal. 56
120. **The Ganodonta or Primitive Edentates with Enamelled Teeth.** *Science*, N. S., Vol. v, No. 120, April 16, 1897, pp. 611-612. Pal. 57
121. **Edward D. Cope.** [Memorial Biography.] *Science*, N. S., Vol. v, No. 123, May 7, 1897, pp. 705-717. Biog. 6
122. **[Phylogeny of the early Eocene Titanotheres: Redefinition of the Ceneutheria and Meseutheria: Origin of the Multituberculate teeth among the Gomphodontia.]** *Abstr. Science*, N. S., Vol. vi, No. 133, July 16, 1897, p. 107. Pal. 58
123. **[Resolution of Committee of N. Y. Acad. of Sciences Relating to Death of Professor E. D. Cope.]** *Science*, N. S., Vol. vi, No. 133, July 16, 1897, p. 108. With J. L. Wortman, *Trans. N. Y. Acad. Sci.*, Vol. xvi, Oct. 1896-Dec. 1897 (1898) pp. 319-320. Biog. 7

124. **Homologies and Nomenclature of the Elements of the Molar Teeth.** *Science*, N. S., Vol. vi, No. 142, Sept. 17, 1897, p. 436. Abstr. *Proc. Amer. Assoc. Adv. Sci.*, Vol. xlvi, June, 1898 (meeting of Aug., 1897), p. 238. Odont. 8
125. **Organic Selection.** *Science*, N. S., Vol. vi, No. 146, October 15, 1897, pp. 583-587. Evol. 18
126. **The Huerfano Lake Basin, Southern Colorado, and its Wind River and Bridger Fauna.** *Bull. Amer. Mus. Nat. Hist.*, Vol. ix, Art. xxi, Oct. 20, 1897, pp. 247-258. Pal. 59
127. **The Limits of Organic Selection.** *Amer. Naturalist*, Vol. xxxi, No. 371, Nov., 1897, pp. 944-951. Abstr. *Proc. Amer. Assoc. Adv. Sci.*, Vol. xlvi, June, 1898 (meeting of Aug., 1897), p. 239. Evol. 19
128. **A Great Naturalist: Edward D. Cope.** *The Century Magazine*, Vol. lv, No. 1, Nov., 1897, pp. 10-15. Biog. 8
129. **Wind River and Bridger Beds in the Huerfano Lake Basin.** [Read before Amer. Assoc. Adv. Sci., Detroit, Aug., 1897.] *Amer. Naturalist*, Vol. xxxi, No. 371, Nov., 1897, pp. 966-968. Pal. 60
130. **Reconstruction of Phenacodus primævus, the most primitive ungulate.** Abstr. *Science*, N. S., Vol. vi, No. 142, 1897, p. 435. *Amer. Naturalist*, Vol. xxxi, No. 371, Nov., 1897, p. 980. *Proc. Amer. Assoc. Adv. Sci., Section Zool.* Vol. xlvi, June, 1898 (meeting of Aug., 1897), p. 238. Pal. 61
131. **Trituberculy: A Review Dedicated to the Late Professor Edward D. Cope.** *Amer. Naturalist*, Vol. xxxi, No. 138, Dec., 1897, pp. 893-1016. Odont. 9
132. **Zoology at Columbia.** *Columbia Univ. Bull.*, No. xviii, Dec., 1897, pp. 17-26. Educ. 11
- 1898 133. [Abstr.] [The Origin of the Mammalia.] *Ann. N. Y. Acad. Sci.*, Vol. xi, Jan. 10, 1898, p. 447. Pal. 62
134. **The Biological Problems of To-day: Palæontological Problems.** [Discussion before the annual meeting of the American Society of Naturalists.] *Science*, N. S., Vol. vii, No. 162, Feb. 4, 1898, pp. 145-147. Evol. 20
135. **Palæontological Notes.** *Science*, Vol. vii, No. 162, Feb. 4, 1898, pp. 164-165. Pal. 63
136. [Origin of the Mammalia.] Discussion before Amer. Soc. of Naturalists. *Science*, N. S., Vol. vii, No. 162, Feb. 4, 1898, pp. 176-178. Pal. 64
137. **The Characters and Phylogeny of the Amblypoda.** *Science*, N. S., Vol. vii, No. 164, Feb. 18, 1898, p. 226 [abstr. of paper read before Amer. Morphological Soc.]. Pal. 65
138. **Preface to Fossil Vertebrates in the American Museum of Natural History. Vol. I.** Articles collected from the *American Museum Bulletins of the Years 1892-1897*, Jan., 1898, pp. iii-vi. Pal. 66
139. [As Chairman.] **Report of the Executive Committee to the Board of Managers for the Year 1897.** [With Madison Grant, Sec'y.] *Second Ann. Rept. New York Zoological Society*, Mar. 15, 1898, pp. 23-39. Adm. 3

140. **A Complete Skeleton of *Teleoceras fossiger*. Notes on the growth and Sexual Characters of this Species.** *Bull. Amer. Mus. Nat. Hist.*, Vol. x, Art. iv, Mar. 18, 1898, pp. 51-59, pll. iv, iva. Pal. 67
141. **A Placental Marsupial.** *Science*, N. S., Vol. vii, No. 170, April 1, 1898, pp. 454-456. Embr. 4
142. **A Complete Skeleton of *Coryphodon radians*. Notes upon the Locomotion of this Animal.** *Bull. Amer. Mus. Nat. Hist.*, Vol. x, Art. vi, April 4, 1898, pp. 81-91, pl. x. *Science*, N. S., Vol. vii, No. 174, April 29, 1898, pp. 585-588. Pal. 68
143. **The Extinct Rhinoceroses.** *Memoirs Amer. Mus. Nat. Hist.*, Vol. i, Pt. iii, April 22, 1898, pp. 75-164, pll. xii-a-xx. Review, *Natural Sci.*, Vol. xiii, No. 79, Sept., 1898, pp. 157-159. Pal. 69
144. **A Complete Skeleton of *Teleoceras*, the True *Rhinoceros* from the Upper Miocene of Kansas.** *Science*, N. S., Vol. vii, No. 173, April 22, 1898, pp. 554-557. Pal. 70
145. **Address of the President at the Fifth Annual Reception of the New York Academy of Sciences.** *Science*, N. S., Vol. vii, No. 176, May 13, 1898, pp. 649-650. Educ. 12
146. **The Origin of the Mammalia [I].** [Address before Brit. Assoc. Adv. Sci., Toronto meeting, and in full before N. Y. Acad. of Sciences, Jan. 10, 1898.] *Amer. Naturalist*, Vol. xxxii, No. 377, May, 1898, pp. 309-334. Abstr. *Ann. N. Y. Acad.*, Vol. xi, No. 22, Jan. 18, 1899, p. 447. Pal. 71
147. **Remounted Skeleton of *Phenacodus primævus*. Comparison with *Euprotogonia*.** *Bull. Amer. Mus. Nat. Hist.*, Vol. x, Art. ix, May 6, 1898, pp. 159-164, pl. xii. Pal. 72
148. **Evolution of the Amblypoda, Part I. Taligrada and Pantodonta.** *Bull. Amer. Mus. Nat. Hist.*, Vol. x, Art. xi, June 3, 1898, pp. 169-218. Pal. 73
149. **The New York Zoological Park.** *Science*, N. S., Vol. vii, No. 179, June 3, 1898, pp. 759-764. Adm. 4
150. **Additional Characters of the Great Herbivorous Dinosaur *Camarasaurus*.** *Bull. Amer. Mus. Nat. Hist.*, Vol. x, Art. xii, June 4, 1898, pp. 219-233. Pal. 74
151. **Models of Extinct Vertebrates.** *Science*, N. S., Vol. vii, No. 182, June 24, 1898, pp. 841-845. Pal. 75
152. **Wasatch and Bridger Beds in the Huerfano Lake Basin.** *Proc. Amer. Assoc. Adv. Sci., Section Zool.*, Vol. xlvi, June, 1898, pp. 205-206. Pal. 76
153. **Modification and Variation, and the Limits of Organic Selection.** [A Joint Discussion with Professor Edward B. Poulton, of Oxford University.] Abstr. *Proc. Amer. Assoc. Adv. Sci.*, Vol. xlvi, June, 1898, p. 239 (meeting of August, 1897). Evol. 21
154. **[Origin of the Mammalia.]** Abstract of remarks at the International Congress of Zoologists, Cambridge, England. *Science*, N. S., Vol. viii, No. 194, Sept. 16, 1898, p. 358. *N. Y. Tribune*, Sept. 18, 1898. Pal. 77

155. **Senff Zoological Expedition to the Nile Valley.** *Science*, N. S., Vol. viii, No. 199, Oct. 21, 1898, pp. 541-542. Pal. 78
156. **On the Presence of a Frontal Horn in *Aceratherium incisivum* Kaup.** Abstr. *Science*, N. S., Vol. viii, No. 207, Dec. 16, 1898, p. 880. Pal. 79
157. **On Some Additional Characters of *Diplodocus*.** Abstr. *Science*, N. S., Vol. viii, No. 207, Dec. 16, 1898, p. 880. Pal. 80
158. **Life and Works of Cope. Illustrating the Training of a Naturalist and The Essential Characteristics of a Great Comparative Anatomist.** [Introduction to Syllabus, Lectures on the Vertebrata by E. D. Cope.] Univ. of Penn., 1898, pp. iii-xxxv. Biog. 9
159. **Casts, Models, Photographs, and Restorations of Fossil Vertebrates.** Pamphlet issued by Department of Vertebrate Palæontology, Amer. Mus. Nat. Hist., pp. 1-21, with 7 illustr. Adm. 5
160. **[Address at Twentieth Re-Union of Class of '77 Princeton.] "After Twenty Years," the Record of the Class of 1877.** Printed, not published, Trenton, N. J., 1898, pp. 72-75. Misc. 6
- 1899 161. **Frontal Horn on *Aceratherium incisivum*. Relation of this Type to Elasmotherium.** [Read before N. Y. Acad. Sci., Nov. 14, 1898.] *Ann. N. Y. Acad. Sci.*, Vol. xi, No. 22, Jan. 18, 1899, p. 487. *Science*, N. S., Vol. ix, No. 214, Feb. 3, 1899, pp. 161-2. Pal. 81
162. **On Some Additional Characters of *Diplodocus*.** [Read before N. Y. Acad. Sci., Nov. 14, 1898.] *Ann. N. Y. Acad. Sci.*, Vol. xi, No. 22, Jan. 18, 1899, p. 487. *Science*, N. S., Vol. ix, No. 218, Mar. 3, 1899, pp. 315-316. Pal. 82
163. **Habits of *Thylacoleo*.** *Amer. Naturalist*, Vol. xxxiii, No. 386, Feb., 1899, pp. 174-175. Pal. 83
164. **[Review.] Vertebrate Palæontology. Outlines of Vertebrate Palæontology for Students of Zoology, by A. Smith Woodward.** *Natural Science*, Vol. xiv, No. 84, Feb., 1899, pp. 156-159. Pal. 84
165. **Origin of Mammals.** [Opening discussion in conjunction with Professor H. G. Seeley before the International Congress of Zoologists at Cambridge, August 25, 1898.] *Proc. 4th Intern. Cong. Zool.*, 1899, pp. 70-71, 413-419. Pal. 85
166. **Abstr. *Amer. Journ. Sci.*, 4th Ser., Vol. vii [Whole Number, clvii], No. 38, Art. xi, Feb., 1899, pp. 92-96.** See also paper on this subject in *Amer. Naturalist*, Vol. xxxiv, No. 408, Dec., 1900, pp. 943-947. [Same contribution as No. 165.] Pal. 86
167. **[As Chairman.] Report of the Executive Committee to the Board of Managers.** [With Madison Grant, Secretary.] *Third Ann. Report New York Zoological Society*, May 1, 1899, pp. 25-38. Adm. 6
168. **[Abstr.] [Upon the Structure of *Tylosaurus dyspeltor*.]** [Read before N. Y. Acad. Sci., Mar. 8, 1899.] *Science*, N. S., Vol. ix, No. 235, June 30, 1899, p. 913. *Ann. N. Y. Acad. Sci.*, Vol. xii, No. 15, June 2, 1900, p. 660. Pal. 87
169. **[Abstr.] [Anatomy of the Mule-footed Hog of Texas.]** [Read before

- N. Y. Acad. Sci., Mar. 8, 1899.] *Science*, N. S., Vol. ix, No. 235, June 30, 1899, p. 913. *Ann. N. Y. Acad. Sci.*, Vol. xii, No. 15, June 2, 1900, pp. 660-661. Zool. 2
170. **The International Catalogue of Scientific Literature.** [With J. McK. Cattell and R. S. Woodward.] *Science*, N. S., Vol. x, No. 241, Aug. 11, 1899, pp. 165-167. Adm. 7
171. [International Catalogue of Scientific Literature]: **K. Paleontology: L. Zoology.** *Science*, N. S., Vol. x, No. 241, Aug. 11, 1899, pp. 170-171. Pal. 88
172. **Recent Zoopaleontology. 2. Triassic Life in Germany** [Review of "Die Bildung der germanischen Trias, eine petrogenetische Studie," by Fraas], A Triassic Chelonian [Review of paper by same author on *Proganochelys Quenstedtii* Baur], The Newburgh Mastodon. *Science*, N. S., Vol. x, No. 250, Oct. 13, 1899, pp. 538-539. Pal. 89
173. **A Complete Mosasaur Skeleton, Osseous and Cartilaginous.** *Mem. Amer. Mus. Nat. Hist.*, Vol. i, Pt. iv, Oct. 25, 1899, pp. 167-189, pll. xxi-xxiii. Abstr. *Science*, N. S., Vol. x, No. 260, Dec. 22, 1899, pp. 919-925. Pal. 90
174. **A Skeleton of Diplodocus.** *Mem. Amer. Mus. Nat. Hist.*, Vol. i, Pt. v, Oct. 25, 1899, pp. 191-214, pll. xxiv-xxviii. Abstr. **A Skeleton of Diplodocus Recently Mounted in the American Museum.** *Science*, N. S., Vol. x, No. 259, Dec. 15, 1899, pp. 870-874. Pal. 91
175. **Fore and Hind Limbs of Carnivorous and Herbivorous Dinosaurs from the Jurassic of Wyoming.** Dinosaur Contributions No. 3. *Bull. Amer. Mus. Nat. Hist.*, Vol. xii, Art. xi, Oct. 30, 1899, pp. 161-172. Pal. 92
176. **On Pliohyrax Kruppi Osborn, a Fossil Hyracoid, from Samos, Lower Pliocene, in the Stuttgart Collection. A New Type, and the First Known Tertiary Hyracoid.** *Proc. Fourth International Congress of Zoology*, 1899, pp. 172-173 (meeting at Cambridge, 1898). Pal. 93
177. **Restoration of Extinct Vertebrates, from the American Museum of Natural History.** *Proc. Fourth Internat. Congress of Zoology*, 1899, p. 174 (meeting at Cambridge, 1898). Pal. 94
- 1900 178. **Intercentra and Hypapophyses in the Cervical Region of Mosasaurs, Lizards and Sphenodon.** *Amer. Naturalist*, Vol. xxxiv, No. 397, Jan., 1900, pp. 1-7. Abstr. *Ann. N. Y. Acad. Sci.*, Vol. xii, No. 15, June 2, 1900, p. 680. Pal. 95
179. **A Glacial Pot-hole in the Hudson River Shales near Catskill, N. Y.** *Amer. Naturalist*, Vol. xxxiv, No. 397, Jan., 1900, pp. 33-36. Geol. 1
180. **Recent Zoopaleontology. Adaptive Radiation of Camels and Llamas. The Pliocene Hyrax. Exploration for Dinosaurs. Ear Bones of Marsupials. The fins of Ichthyosaurus.** *Science*, N. S., Vol. xi, No. 264, Jan. 19, 1900, pp. 115-116. Pal. 96
181. **The Angulation of the Limbs of Proboscidea, Dinocerata, and Other Quadrupeds in Adaptation to Weight.** *Amer. Naturalist*, Vol. xxxiv, No. 398, Feb., 1900, pp. 89-94. Pal. 97

182. **The Geological and Faunal Relations of Europe and America during the Tertiary Period and the Theory of the Successive Invasions of an African Fauna.** *Science*, N. S., Vol. xi, No. 276, Apr. 13, 1900, pp. 561-574. Zoog. 1
183. [As Chairman.] **Report of the Executive Committee to the Board of Managers for the Year 1899.** [With Levi P. Morton and other members.] *Fourth Ann. Rept. New York Zoological Society*, May, 1900, pp. 27-41. Adm. 8
184. [Address of welcome at the Opening of the New York Zoological Park.] *Fourth Ann. Rept. New York Zoological Society*, May, 1900, pp. 76-78. Adm. 9
185. **Progress of the New York Zoological Park.** *Science*, N. S., Vol. xi, No. 286, June 22, 1900, pp. 963-965. Adm. 10
186. **The International Catalogue of Scientific Literature.** *Science*, N. S., Vol. xii, No. 290, July 20, 1900, p. 113. Adm. 11
187. **Correlation Between Tertiary Mammal Horizons of Europe and America.** An Introduction to the More Exact Investigation of Tertiary Zoogeography. Preliminary Study with Third Trial Sheet. Part I. Parallels between Tertiary Horizons. [Presidential address before N. Y. Acad. Sci. delivered February 27, 1899.] Part II. Faunal Relations of Europe and America During the Tertiary Period and Theory of Successive Invasions of an African Fauna into Europe. [Presidential address before N. Y. Acad. Sci. delivered February 26, 1900.] [With a list of the Author's Scientific Publications, 1878-1899, appended by direction of the Council of the Academy.] *Ann. N. Y. Acad. Sci.*, Vol. xiii, No. 1, July 21, 1900, pp. 1-72. Corr. Zoog. 1
188. **The Eighth International Geological Congress at Paris.** *Science*, N. S., Vol. xii, No. 299, Sept. 21, 1900, pp. 440-442. Geol. 2
189. **Reconsideration of the Evidence for a Common Dinosaur-Avian Stem in the Permian.** *Amer. Naturalist*, Vol. xxxiv, No. 406, Oct., 1900, pp. 777-799. Pal. 98
190. **Recent Zoopaleontology.** A Rhinoceros with a Complete Set of Cutting Teeth. Extinct Lemurs from Madagascar. Pareiasaurians or Theriodonts in Northern Russia. Fossil Mammals from Egypt. Extinct Birds of Patagonia. Large Turtles from the Fort Pierre of South Dakota. *Dinotherium gigantissimum*. Fossil Camels of Europe. The Devonian Lamprey and the Classification of the Fishes. *Science*, N. S., Vol. xii, No. 307, Nov. 16, 1900, pp. 767-769. Pal. 99
191. **Origin of the Mammalia, III. Occipital Condyles of Reptilian Tri-partite Type.** [Presented before Section of Zoölogy, American Association for the Advancement of Science, June, 1900.] *Amer. Naturalist*, Vol. xxxiv, No. 408, Dec., 1900, pp. 943-947. Pal. 100
192. **Phylogeny of the Rhinoceroses of Europe.** Rhinoceros Contributions No. 5. *Bull. Amer. Mus. Nat. Hist.*, Vol. xiii, Art. xix, Dec. 11, 1900, pp. 229-267. Pal. 101

193. *Oxyæna* and *Patriofelis* Restudied as Terrestrial Creodonts. *Bull. Amer. Mus. Nat. Hist.*, Vol. xiii, Art. xx, Dec. 21, 1900, pp. 269-281. Pal. 102
194. *Work in the Mammals*. Addresses in Memory of Edward Drinker Cope delivered at the meeting in the hall of the American Philosophical Society held at Philadelphia for Promoting Useful Knowledge, Nov. 12, 1897. *Proc. Amer. Philos. Soc. Memorial Volume I*, 1900, pp. 296-303. Biog. 10
- 1901 195. *The Recent Progress of Vertebrate Palæontology in America*. Introduction and Conclusions of a Lecture illustrated by Field and Museum Photographs, delivered at Trinity College, Hartford, Conn., on the Occasion of the opening of the Hall of Natural History. *Science*, N. S., Vol. xiii, No. 315, Jan. 11, 1901, pp. 45-49. Pal. 103
196. *The Attitude of the State Toward Scientific Investigation*. Annual Discussion before the American Society of Naturalists. *Science*, N. S., Vol. xiii, No. 316. Jan. 18, 1901, pp. 81-85. Abstr. *N. Y. Evening Post*, Dec. 28, 1900. Educ. 13
197. *Recent Progress in Paleontology*. Congestion of Museums, Special Investigations, Evolution of the Horse. *Science*, N. S., Vol. xiii, No. 335, May 31, 1901, pp. 872-873. Pal. 104
198. [As Chairman] *Report of the Executive Committee of the Board of Managers of the New York Zoological Society for the year 1900*. [With other members.] *Fifth Ann. Report New York Zoological Society*, June 1, 1901, pp. 33-42. Adm. 12
199. *Fore and Hind Limbs of Sauropoda from the Bone Cabin Quarry*. [With Walter Granger.] *Bull. Amer. Mus. Nat. Hist.*, Vol. xiv, Art. xiii, July 9, 1901, pp. 199-208. Pal. 105
200. *Mémoires présentés au Congrès de Paris*: (1) Des Méthodes précises mises actuellement en œuvre dans l'étude des vertébrés fossiles des États Unis d'Amérique; (2) Corrélation des horizons de mammifères tertiaires en Europe et en Amérique. *Congrès Géologique International, Comptes Rendus du viii^e Session en France* [1900]. Fasc. 1, pp. 353-356, 357-363, 8vo, Paris, 1901. Pal. 106
201. *Professor Fraas on the Aqueous vs. Æolian Depositions of the White River Oligocene of S. Dakota*. [Unsigned.] *Science*, N. S., Vol. xiv, No. 345, Aug. 9, 1901, pp. 210-212. Geol. 3
202. *Recent Zoopaleontology*. A Marsupial Evolution. Geology of the John Day Basin. Discoveries of Plesiosaurs and of *Portheus*. *Science*, N. S., Vol. xiv, No. 348, Aug. 30, 1901, pp. 330-331. Pal. 107
203. *Recent Zoopaleontology*. [Refers to explorations in America and other Countries.] *Science*, N. S., Vol. xiv, No. 352, Sept. 27, 1901, pp. 498-499. Pal. 108
204. [Review of J. B. Hatcher's memoir on *Diplodocus* Marsh in Mem. Carnegie Mus., Vol. I.] *Science*, N. S., Vol. xiv, No. 353, Oct. 4, 1901, pp. 531-532. Pal. 109

205. **Recent Zoopaleontology.** Vertebrate Paleontology at the Carnegie Museum. Discoveries in Northern Africa. Notes on Primitive and Fossil Birds. *Science*, N. S., Vol. xiv, No. 354, Oct. 11, 1901, pp. 578-580. Pal. 110
206. **Recent Zoopaleontology.** Fossil Reptiles of Europe. Marsh's Collection of Bridger Mammalia. Pleistocene Horses of North America. *Science*, N. S., Vol. xiv, No. 357, Nov. 1, 1901, pp. 699-700. Pal. 111
- 1902 207. **Dolichocephaly and Brachycephaly in the Lower Mammals.** [Read before N. Y. Acad. Sci., Nov. 11, 1901.] *Bull. Amer. Mus. Nat. Hist.*, Vol. xvi, Art. vii, Feb. 3, 1902, pp. 77-89. Abstr. *Ann. N. Y. Acad. Sci.*, Vol. xiv, No. 5, Mar. 4, 1902, p. 147. Pal. 112
208. **The Four Phyla of Oligocene Titanotheres.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xvi, Art. viii, Feb. 18, 1902, pp. 91-109. Pal. 113
209. **Recent Zoopaleontology.** A Fossil Camel from Southern Russia. Fossil Remains of Lake Callabona [Australia]. Transference of Secondary Sexual Characters from Males to Females. *Homo neanderthalensis* a Distinct Species. Distinctions between the skulls of Lemurs and Monkeys. Distinct Phyla of Rhinoceroses. *Science*, N. S., Vol. xv, Feb. 28, No. 374, 1902, pp. 355-357. Pal. 114
210. **Recent Zoopalaeontology.** Fritsch's Fauna der Gaskohle und der Kalksteine der Permformation, Böhmens. *Science*, N. S., Vol. xv, No. 378, Mar. 28, 1902, p. 514. Pal. 115
211. **A Sea Shore Laboratory** [at Woods Hole, Mass.]. *Harper's Monthly Magazine*, Vol. civ, No. dcxxii, Mar., 1902, pp. 552-558. Zool. 3
212. **Homoplasy as a Law of Latent or Potential Homology.** *Amer. Naturalist*, Vol. xxxvi, No. 424, Apr., 1902, pp. 259-271. Evol. 21
213. [As Chairman] **Report of the Executive Committee.** [With other members, for the year 1901.] *Sixth Ann. Rept. New York Zoological Soc.*, Apr. 1, 1902, pp. 35-43. Adm. 13
214. **The Law of Adaptive Radiation.** *Amer. Naturalist*, Vol. xxxvi, No. 425, May, 1902, pp. 353-363. Pal. 116
215. **Henri Filhol, Paleontologist.** *Science*, N. S., Vol. xv, No. 388, June 6, 1902, p. 912. Biog. 11
216. **American Eocene Primates, and the Supposed Rodent Family Mixodectidae.** [Read before N. Y. Acad. Sci., Mar. 11, 1901.] Abstr. *Ann. N. Y. Acad. Sci.*, Vol. xiv, No. 5, Mar. 4, 1902, p. 111. *Bull. Amer. Mus. Nat. Hist.*, Vol. xvi, Art. xvii, June 28, 1902, pp. 169-214. Pal. 117
217. **On Vertebrata of the Mid-Cretaceous of the North West Territory.** 1. Distinctive Characters of the Mid-Cretaceous Fauna, by Henry Fairfield Osborn. 2. New Genera and Species from the Belly River Series (Mid-Cretaceous) by Lawrence M. Lambe. *Contributions to Canadian Palaeontology*, Vol. iii (4to), Pt. ii, Ottawa, Sept., 1902, pp. 1-81, pll. i-xxi. Pal. 118
218. **Recent Zoopaleontology.** New Vertebrates of the Mid-Cretaceous. *Science*, N. S., Vol. xvi, No. 408, Oct. 24, 1902, pp. 673-676. Pal. 119

219. **Recent Zoopaleontology.** A Remarkable New Mammal from Japan. Its Relationship to the Californian Genus *Desmostylus*, Marsh. Eocene Sirenians in Egypt. Progress of the Explorations for Fossil Horses. The Perissodactyls typically Polyphyletic. *Science*, N. S., Vol. xvi, No. 409, Oct. 31, 1902, pp. 713-715. **Pal. 120**
220. **Recent Zoopaleontology.** Triassic Ichthyosaurs from California and Nevada. Relations of the Ostracoderm and Arthrodiran Fishes. Origin of the Turtles. Abandonment of the Oligocene and Miocene Lake Basin Theory. Studies of Eocene Mammalia in the Marsh Collection, Peabody Museum. A New Pleistocene Rhinoceros related to the Sumatran Form. Relations of Okapia. *Science*, N. S., Vol. xvi, No. 410, Nov. 7, 1902, pp. 749-752. **Pal. 121**
221. **The Fossil Tree Bridge in the Arizona Petrified Forest.** *Science*, N. S., Vol. xvi, No. 416, Dec. 19, 1902, p. 991. **Geol. 4**
222. [On the Origin and Contemporary Evolution of Man.] Contr. to "The Record-Herald's Answers by Experts." *The Record Herald*, Chicago (some time during 1902). **Anthr. 1**
- 1903 223. **Recent Zoopaleontology.** The Cope Pampean Collection. *Science*, N. S., Vol. xvii, No. 421, Jan. 23, 1903, pp. 157-158. **Pal. 122**
224. **Report of Advisory Committee on Paleontology.** [With Henry Shaler Williams.] Report of Advisory Committee on Zoology. [With Edmund B. Wilson and W. K. Brooks.] *Year Book of Carnegie Institution*, No. 1, for the year 1902, Washington, Jan., 1903, pp. 174-184. **Pal. 123**
225. **The New York Zoological Park and Aquarium.** *Science*, N. S., Vol. xvii, No. 424, Feb. 13, 1903, pp. 265-267. **Adm. 14**
226. **On the Primary Division of the Reptilia into two Sub-Classes, Synapsida and Diapsida.** [Presented to the N. Y. Acad. of Sciences, Sec. of Biology, Feb. 9, 1903.] *Science*, N. S., Vol. xvii, No. 424, Feb. 13, 1903, pp. 275-276. **Pal. 124**
227. **Recent Zoopaleontology.** An Upper Pliocene Cave. A New Rhinoceros from Southern Bavaria. The Basal Eocene Mammalian Fauna in the Ft. Union Beds of Montana. A Review of the Reptilia of the Trias. A Horned Eocene Ungulate from Egypt [*Arsinoitherium*]. *Science*, N. S., Vol. xvii, No. 425, Feb. 20, 1903, pp. 312-314. **Pal. 125**
228. **Recent Zoopaleontology.** Age of the Typical Judith River Beds. *Science*, N. S., Vol. xvii, No. 426, Feb. 27, 1903, pp. 356-357. **Pal. 126**
229. **On the Age of the Belly River Series or Formation in Canada.** *The Ottawa Naturalist*, Vol. xvi, No. 11, Feb., 1903, pp. 227-228. **Pal. 127**
230. [As Chairman] **Report of the Executive Committee for the year 1902.** [With other members.] *Seventh Ann. Rept. New York Zoological Society*, Apr. 1, 1903, pp. 33-49. **Adm. 15**
231. **The Mediæval and the True Modern Spirit in Education.** 8vo, New York, April, 1903, privately printed, not published. **Educ. 14**
232. [Address on the occasion of the dedication of the Fairfield Memorial Library, June 11, 1903.] 12mo, privately printed, 1903. **Educ. 15**

233. **Progress of the Concilium Bibliographicum.** *Science*, N. S., Vol. xvii, No. 441, June 12, 1903, pp. 951-952. Adm. 16
234. **Ornitholestes hermanni, a New Compsognathoid Dinosaur from the Upper Jurassic.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xix, Art. xii, July 23, 1903, pp. 459-464. Pal. 128
235. **New York Zoological Park.** *Science*, N. S., Vol. xviii, No. 450, Aug. 14, 1903, pp. 218-219. Adm. 17
236. **Glyptotherium texanum, A new Glyptodont, from the Lower Pleistocene of Texas.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xix, Art. xvii, Aug. 17, 1903, pp. 491-494, pl. xliii. Pal. 129
237. **A World's Congress of Lions, the Lion-House in the New York Zoological Park.** *The Century Magazine*, Vol. lxvii, No. 1, 1903, pp. 79-84. Zool. 4
238. **The Reptilian Subclasses Diapsida and Synapsida and the Early History of the Diaptosauria.** *Mem. Amer. Mus. Nat. Hist.*, Vol. i, Pt. viii, Nov. 1903, pp. 451-507. *Abstr. Amer. Naturalist*, Vol. xxxviii, No. 446, Feb., 1904, pp. 93-115. Pal. 130
239. **Recent Zoopaleontology.** Additional Discoveries in Egypt. Recent Discoveries in France. South American Mammals, Marsupials and Monotremes, Horses and Man. *Science*, N. S., Vol. xviii, No. 464, Nov. 20, 1903, pp. 665-668. Pal. 131
240. **Recent Zoopaleontology.** Schlosser's Literaturbericht. American Oligocene Microfauna. Triassic Reptilia. Cretaceous Reptiles. Jurassic Reptiles. *Science*, N. S., Vol. xviii, No. 465, Nov. 27, 1903, pp. 699-702. Pal. 132
241. **The Skull of Creosaurus.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xix, Art. xxxi, Dec. 24, 1903, pp. 697-701. Pal. 133
242. **Recent Zoopaleontology.** Vertebrate Paleontology in the United States Geological Survey. *Science*, N. S., Vol. xviii, No. 467, Dec. 25, 1903, pp. 835-837. Pal. 134
243. **Explorations and Researches of the Department of Vertebrate Paleontology.** Preface to *Fossil Vertebrates in the American Museum of Natural History*, Vol. ii. Articles Collected from the *American Museum Bulletins* of the years 1898-1903. 8vo, Dec., 1903, pp. iii-xix. Pal. 135
- 1904 244. **Recent Zoopaleontology.** Field Explorations during the Past Season. *Science*, N. S., Vol. xix, No. 470, Jan. 1, 1904, pp. 35-36. Pal. 136
245. **Karl Alfred von Zittel.** *Science*, N. S., Vol. xix, No. 474, Jan. 29, 1904, pp. 186-188. Biog. 12
246. **Preservation of the Wild Animals of North America.** Address before the Boone and Crockett Club, Washington, Jan. 23, 1904. Publ. Boone and Crockett Club, 8vo, 1904, pp. 1-27. *Forest and Stream*, Apr. 16, 1904, pp. 312-313. *Abstr. Self Culture for Young People*, Vol. vii. Edited by A. S. Draper and Charles Welsh, Boston, 1906. Cons. 1

247. [Summaries of papers read before the Society of Vertebrate Paleontologists of America, Dec. 29, 1903.] On the Position of the Bones of the Fore-arm in the Opisthocoelia or Sauropoda. On the Use of the Sandblast in Cleaning Fossils. Conclusive Palæontological Evidence for the Tritubercular Theory. A Reclassification of the Reptilia. On the Primary Components of Vertebræ and their Relation to Ribs. *Science*, N. S., Vol. xix, No. 476, Feb. 12, 1904, pp. 255-257. Pal. 137
248. Recent Zoopaleontology. The Sauropoda. *Science*, N. S., Vol. xix, No. 476, Feb. 12, 1904, pp. 271-272. Pal. 138
249. [Resting Position of the Tasmanian Wolf.] *Nature*, Vol. 69, No. 1799, Apr. 21, 1904, p. 587. Zool. 5
250. Paleontological Evidence for the Original Tritubercular Theory. *Amer. Journ. Sci.*, 4th Ser., Vol. xvii [Whole No. clxvii], No. 100, Art. xxix, Apr., 1904, pp. 321-323, pl. xxi. Odont. 10
251. Recent Advances in our Knowledge of the Evolution of the Horse. *Proc. Amer. Phil. Soc.*, Vol. xliii, No. 176, Apr., 1904, pp. 156-157. Pal. 139
252. An Armadillo from the Middle Eocene (Bridger) of North America. *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xii, May 10, 1904, pp. 163-165. Pal. 140
253. Progress of the Concilium Bibliographicum. *Science*, N. S., Vol. xix, No. 490, May 20, 1904, pp. 802-805. Adm. 18
254. New Oligocene Horses. *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xiii, May 28, 1904, pp. 167-179, pl. v. Pal. 141
255. Manus, Sacrum, and Caudals of Sauropoda. *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xiv, May 28, 1904, pp. 181-190. Pal. 142
256. *Teleorhinus browni*—A Teleosaur in the Fort Benton. *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xxi, July 1, 1904, pp. 239-240. Pal. 143
257. New Miocene Rhinoceroses with Revision of Known Species. *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xxvii, Sept. 24, 1904, pp. 307-326. Pal. 144
258. Fossil Wonders of the West, the Dinosaurs of the Bone-Cabin Quarry, Being the First Description of the Greatest "Find" of Extinct Animals Ever made. *Century Magazine*, Vol. lxxviii, No. 5, September, 1904, pp. 680-694. Pal. 145
259. The Great Cretaceous Fish *Portheus molossus* Cope. *Bull. Amer. Mus. Nat. Hist.*, Vol. xx, Art. xxxi, Oct. 15, 1904, pp. 377-381. Pal. 146
260. Fossil Wonders of the West, The Evolution of the Horse in America. *The Century Magazine*, Vol. lxxix, No. 1, November, 1904, pp. 3-17. Pal. 147
- 1905 261. The Evolution of the Horse. *Rept. Brit. Assoc. Adv. Sci.* [74th meeting, Cambridge, 1904], 1905, pp. 607-608. Pal. 148
262. Fossil Wonders of the West, Ichthyosaurs, The Evolution of Fitness in Ichthyosaurs. *The Century Magazine*, Vol. lxxix, No. 3, January, 1905, pp. 414-424. Pal. 149

263. **Recent Discoveries of Extinct Animals in the Rocky Mountain Region and Their Bearings on the Present Problems of Evolution.** [Read before N. Y. Acad. Sci., Dec. 12, 1904.] [Rept. of Dec., 1904, meeting of N. Y. Acad. of Sciences.] *Science*, N. S., Vol. xxi, No. 523, Jan. 6, 1905, p. 28. *Ann. N. Y. Acad. Sciences*, Vol. xvi, No. 7, Aug. 2, 1905, pp. 358-359. Pal. 150
264. **The Present Problems of Paleontology.** [Address before Section of Zoology of the International Congress of Arts and Science, September 22, 1904, St. Louis.] *Pop. Sci. Monthly*, Vol. lxvi, No. 3, Jan. 1905, pp. 226-242. *Congress of Arts and Science, Universal Exposition*, St. Louis, 1904, Vol. iv, June, 1906, pp. 566-585. Pal. 151
265. **The American Palæontological Society Section A—Vertebrata [Discussion of the Phylogeny and Classification of the Reptilia.]** *Science*, N. S., Vol. xxi, No. 530, Feb. 24, 1905, pp. 294-296. Pal. 152
266. **Recent Zoopaleontology.** [Abstr., lecture delivered by Professor Osborn before Society of Naturalists at the Philadelphia meeting.] *Science*, N. S., Vol. xxi, No. 530, Feb. 24, 1905, pp. 315-316. Pal. 153
267. **Ten Years' Progress in the Mammalian Palæontology of North America.** *Comptes rendus du 6me Congrès intern. de Zoologie*, Session de Berne, 1904, May 25, 1905, pp. 86-113, pll. i-xv. *American Geologist*, Vol. xxxvi, No. 4, Oct., 1905, pp. 199-229. Pal. 154
268. **Evolution of the Horse. Recent Studies and Discoveries.** *Comptes rendus du 6me Congrès intern. de Zoologie*, Session de Berne, 1904, May 25, 1905, p. 282. Pal. 155
269. **History of a White Rhinoceros Skull.** *Nature*, Vol. 72, No. 1858, June 8, 1905, p. 127. Pal. 156
270. **Recent Vertebrate Paleontology. Fossil Mammals of Mexico.** *Science*, N. S., Vol. xxi, No. 546, June 16, 1905, pp. 931-932. Pal. 157
271. **The Ideas and Terms of Modern Philosophical Anatomy.** [Read before the Section of Biology, N. Y. Acad. of Sciences, Apr. 10, 1905.] *Science*, N. S., Vol. xxi, No. 547, June 23, 1905, pp. 959-961. *Jour. of Philosophy, Psychology and Scientific Methods*, Vol. ii, No. 17, Aug. 17, 1905, pp. 455-458 (condensed). Evol. 23
272. **The Fossil Arachnida of Bohemia.** [Review of memoir by Fritsch, "Neue Fische und Reptilien".] *Science*, N. S., Vol. xxii, No. 550, July 14, 1905, p. 57. Pal. 158
273. **The Classification of the Reptilia.** [Read before N. Y. Acad. Sci., Jan. 11, 1904.] *Ann. N. Y. Acad. Sci.*, Vol. xvi, No. 7, Aug. 2, 1905, pp. 302-303. Pal. 159
274. **Recent Vertebrate Paleontology.** *Science*, N. S., Vol. xxii, No. 554, Aug. 11, 1905, pp. 188-189. Pal. 160
275. **Skull and Skeleton of the Sauropodous Dinosaurs, Morosaurus and Brontosaurus.** *Science*, N. S., Vol. xxii, No. 560, Sept. 22, 1905, pp. 374-376. Pal. 161

276. **Tyrannosaurus and Other Cretaceous Carnivorous Dinosaurs.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xxi, Art. xiv, Oct. 4, 1905, pp. 259-265. Pal. 162
277. **Western Explorations for Fossil Vertebrates.** *Pop. Sci. Monthly*, Vol. lxvii, No. 35, Oct., 1905, pp. 561-568. Pal. 163
278. **Origin and History of the Horse.** Address before the New York Farmers, Dec. 19, 1905, pp. 1-16. Pal. 164
- 1906 279. **Mountain Goat Hunting with the Camera.** With Observations on Other Mammals of Southern British Columbia. *Tenth Annual Report N. Y. Zoological Society*, Jan., 1906, pp. 217-233. Zool. 6
280. **The Skeleton of Brontosaurus and Skull of Morosaurus.** *Nature*, Vol. 73, No. 1890, Jan. 18, 1906, pp. 282-284. Pal. 165
281. **The Seven Factors of Education.** *Educational Review*, Vol. 32, No. 1, June, 1906, pp. 56-82. Educ. 16
282. **Recent Vertebrate Paleontology.** Extinct Mammals of Patagonia [Review of Gaudry's Memoir on the fossils of Patagonia, in *Annales de Paléontologie*, Vol. i]. Eocene Mammalia of Northern Africa [Review of "A Descriptive Catalogue of the Tertiary Vertebrata of the Fayûm, Egypt, based on the Collection of the Egyptian Government in the Geological Museum, Cairo, and on the Collection in the British Museum (Natural History), London," by Charles William Andrews]. *Science*, N. S., Vol. xxiv, No. 602, July 13, 1906, pp. 55-57. Pal. 166
283. **Milk Dentition of the Hyracoid Saghatherium from the Upper Eocene of Egypt.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xxii, Art. xiii, July 25, 1906, pp. 263-266. Pal. 167
284. **Tyrannosaurus, Upper Cretaceous Carnivorous Dinosaur.** (Second Communication.) *Bull. Amer. Mus. Nat. Hist.*, Vol. xxii, Art. xvi, July 30, 1906, pp. 281-296. Editorial abstr. *Nature*, Vol. 74, No. 1921, Aug. 23, 1906, p. 416. Pal. 168
285. **Recent Vertebrate Paleontology.** Small Permian Reptile from Brazilian Coal Commission. *Science*, N. S., Vol. xxiv, No. 606, Aug. 10, 1906, pp. 184-185. Pal. 169
286. **Hunting Prehistoric Animals.** Introduction to article by D. A. Willey, "Bone Cabin Quarry." *Appleton's Magazine*, Vol. viii, No. 5, Nov. 1906, pp. 552-554. Pal. 170
287. **The Causes of Extinction of Mammalia.** [First half of article.] *Amer. Naturalist*, Vol. xl, No. 479, Nov., 1906, pp. 769-795. Zool. 7
287. **The Causes of Extinction of Mammalia.** [Conclusion.] *Amer. Naturalist*, Vol. xl, No. 480, Dec., 1906, pp. 829-859. Zool. 7
288. **[Letter Relating to Secretaryship of Smithsonian Institution.]** *Science*, N. S., Vol. xxiv, No. 625, Dec. 21, 1906, pp. 825-826. Adm. 19
289. **Preface to "The Arab Horse"** by Spencer Borden. Doubleday, Page & Co., 8vo, 1906, pp. vii-xiii. Zool. 8
- 1907 290. **Discovery of a Supposed Primitive Race of Men in Nebraska.** *Century Magazine*, Vol. lxxiii, No. 3, Jan., 1907, pp. 371-375. Editorial abstr. *Nature*, Vol. 75, No. 1941, Jan. 10, 1907, p. 255. Anthr. 2

291. [Address at the Quarter Century Re-Union of the Class of '77, Princeton; June, 1902.] "*An Account of the Quarter-Century Celebration of the Class of '77*" [Princeton Univ.]. Printed, not published, Trenton, N. J., Mar. 1, 1907, pp. 51-57. Misc. 7
292. The American Museum Expedition to the Fayûm Desert. *The Nation*, Vol. 84, No. 2177, Mar. 21, 1907, pp. 271-272. *The N. Y. Evening Post*, Mar. 21, 1907, p. 14. Pal. 171
293. The Fayûm Expedition of the American Museum. *Science*, N. S., Vol. xxv, No. 639, Mar. 29, 1907, pp. 513-516. Pal. 172
294. Tertiary Mammal Horizons of North America. *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiii, Art. xi, Mar. 30, 1907, pp. 237-253. Pal. 173
295. A Mounted Skeleton of the Columbian Mammoth (*Elephas columbi*). *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiii, Art. xii, Mar. 30, 1907, pp. 255-257. Pal. 174
296. Points of the Skeleton of the Arab Horse. *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiii, Art. xiii, Mar. 30, 1907, pp. 259-263. Zool. 9
297. A Mounted Skeleton of Naosaurus, a Pelycosaur from the Permian of Texas. *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiii, Art. xiv, Mar. 30, 1907, pp. 265-270. Pal. 175
298. Archæological Work in Egypt. *The Nation*, Vol. 84, No. 2179, April 4, 1907, pp. 320-321. *The Evening Post*, April 10, 1907, p. 4. Anthr. 3
299. A Mastodon "At Home." *The Evening Post*, Saturday, August 3, 1907, p. 2. Pal. 176
300. Concilium Bibliographicum. *Science*, N. S., Vol. xxvi, No. 660, Aug. 23, 1907, pp. 260-261. Misc. 8
301. EVOLUTION OF MAMMALIAN MOLAR TEETH TO AND FROM THE TRIANGULAR TYPE. Including Collected and Revised Researches on Trituberculy and New Sections on the Forms and Homologies of the Molar Teeth in the Different Orders of Mammals. 8vo, The Macmillan Company, New York and London, Sept., 1907, 250 pp. Edited by Dr. W. K. Gregory. Odont. 11
302. Hunting the Ancestral Elephant in the Fayûm Desert. Discoveries of the Recent African Expedition of the American Museum of Natural History. *The Century Magazine*, Vol. lxxiv, No. 6, Oct., 1907, pp. 815-835. Editorial abstr. *Nature*, Vol. 76, No. 1981, Oct. 17, 1907, p. 622. Abstr. "Hunting the Two Million Year Old Elephant," in the *Illustrated London News*, Suppl., Vol. 132, No. 3594, Mar. 7, 1908. Pal. 177
303. Evolution as it Appears to the Paleontologist. Address before the Seventh International Zoological Congress, Section of Palæozoölogy, Boston, Aug., 1907. (First Paper.) *Science*, N. S., Vol. xxvi, No. 674, Nov. 29, 1907, pp. 744-749. *Proc. Seventh International Zool. Congr.* [Boston Meeting, Aug. 19-24, 1907, Cambridge, Mass.], 1912, pp. 733-739. Evol. 24
304. Science and Sentiment. An Address Before the Graduating Class of the Presbyterian Hospital Training School for Nurses. 8vo, New York, 1907, privately printed. Educ. 17

305. Foreword to the Monographs on Vertebrate Paleontology. [Preface to "The Ceratopsia" by J. B. Hatcher and R. S. Lull.] *Monographs of the U. S. Geological Survey*, Vol. xlix, 1907, pp. xiii-xv. Biog. 13
306. Explorations of John Bell Hatcher for the Paleontological Monographs of the United States Geological Survey, together with a Statement of his Contributions to American Geology and Paleontology. *Monographs of the U. S. Geol. Survey*, Vol. xlix, "The Ceratopsia" by Hatcher, Marsh, Lull. Washington, 1907, pp. xvii-xxvi. Biog. 14
307. [Abstr.] The Reclassification of the Mammalia. [Read before N. Y. Acad. Sci., Nov. 13, 1905.] *Ann. N. Y. Acad. Sciences*, Vol. xvii, Pt. iii, Dec. 1907, pp. 611-613. Pal. 178
- 1908 308. The Four Inseparable Factors of Evolution. Theory of their Distinct and Combined Action in the Transformation of the Titanotheres, an Extinct Family of Hoofed Animals in the Order Perissodactyla. (Second Paper.) *Science*, N. S., Vol. xxvii, No. 682, Jan. 24, 1908, pp. 148-150. Evol. 25
309. [As Chairman.] Report of the Executive Committee to the Board of Managers. [For the year 1907, with other members.] *Twelfth Annual Report of the New York Zoölogical Society*, Jan. 1908, pp. 29-39. Adm. 20
310. Morris K. Jesup. *Science*, N. S., Vol. xxvii, No. 684, Feb. 7, 1908, pp. 235-236. Biog. 15
311. The Horses of Mexico. *The Outing Magazine*, Vol. li, No. 5, Feb., 1908, pp. 587-591. Zool. 10
312. New Fossil Mammals from the Fayûm Oligocene, Egypt. *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiv, Art. xvi, Mar. 25, 1908, pp. 265-272. Pal. 179
313. Explorations and Researches of the Department of Vertebrate Palæontology. [With W. D. Matthew.] Preface to Vol. iii of Articles Collected from the *American Museum Bulletin* of the Years 1904-1908. Issued Apr., 1909. Pal. 180
314. Coincident Evolution Through Rectigradations. (Third Paper.) *Science*, N. S., Vol. xxvii, No. 697, May 8, 1908, pp. 749-752. Evol. 26
315. [As President] Thirty-ninth Annual Report of the Trustees of The American Museum of Natural History [for the year 1907.] 8vo, New York, May 9, 1908, 120 pp. Adm. 21
316. The Board of Trustees of the American Museum of Natural History adopted the following Minute at its Annual Meeting, held February the tenth one thousand Nine Hundred and Eight. [Written by Henry F. Osborn, signed by J. Hampden Robb, Secretary of the Board.] *Resolutions in Appreciation of Morris Ketchum Jesup*, 4to, New York, May 11, 1908, pp. 3-6. Biog. 16
317. A Paleontological Trip to Northwestern Nebraska. *Ann. N. Y. Acad. Sciences*, Vol. xviii, No. 8, Pt. ii, May, 1908, pp. 351-352.
318. New or Little Known Titanotheres from the Eocene and Oligocene. *Bull. Amer. Mus. Nat. Hist.*, Vol. xxiv, Art. xxxii, Sept. 19, 1908, pp. 599-617. Pal. 181

319. **Exhibit Illustrating the Evolution of the Horse.** *Amer. Mus. Journ.*, Vol. viii, No. 8, Dec., 1908, pp. 117-122. Pal. 182
320. **The American Museum and the Public Health.** Introductory Remarks by the President of the American Museum of Natural History, at the opening of the International Tuberculosis Exhibition, November thirtieth, 1908. Privately printed. Educ. 18
- 1909 321. **Cenozoic Mammal Horizons of Western North America.** With Faunal Lists of the Tertiary Mammalia of the West by William Diller Matthew. *Bull.* 361 *U. S. Geological Survey*, Washington, Jan., 1909, pp. 1-138. Corr. Geol. 1
322. [As Chairman] **Report of the Executive Committee to the Board of Managers.** [For the year 1908, with other members.] *Thirteenth Annual Report of the New York Zoölogical Society*, Jan., 1909, pp. 31-43. Adm. 22
323. [Note on Plans of the Amer. Mus. for instruction of the blind, and of young children in love and respect for animals.] *New York Times*, Pt. 5, Mag. Sect., Sunday, Jan. 31, 1909, p. 6. Educ. 19
324. [Remarks on Darwin.] *The Evening Post*, New York, Feb. 12, 1909, p. 3. Biog. 17
325. **Darwin Celebrations in the United States.** *Nature*, Vol. 80, No. 2055, Mar. 18, 1909, pp. 72-73. Biog. 18
326. **Life and Works of Darwin.** [Address delivered Feb. 12, 1909, at Columbia University on the one hundredth anniversary of Darwin's birth, Feb. 12th, 1809, as the first of a series of nine lectures on "Charles Darwin and His Influence on Science."] *Pop. Sci. Monthly*, Vol. lxxiv, No. 4, April, 1909, pp. 315-343. *Abstr. Columbia Spectator*, Vol. lii, No. 102, Feb. 13, 1909. Biog. 19
327. **Darwin and Palæontology.** One of the Addresses in "Fifty Years of Darwinism." 8vo, Henry Holt & Co., New York, April, 1909, pp. 209-250. Evol. 27
328. **Geological Correlation Through Vertebrate Paleontology by International Coöperation.** *Correlation Bull.* No. 1. Plan and Scope. [With Dr. W. D. Matthew.] *Ann. N. Y. Acad. Sci.*, Vol. xix, No. 2, Pt. 1, Apr. 20, 1909, pp. 41-44. Corr. Geol. 2
329. [As President] **Fortieth Annual Report of the Trustees of The American Museum of Natural History for the year 1908.** New York, May 1, 1909, 118 pp. Adm. 23
330. **The Epidermis of an Iguanodont Dinosaur.** *Science*, N. S., Vol. xxix, No. 750, May 14, 1909, pp. 793-795. Pal. 183
331. **To the Philosophic Zoölogist.** *Science*, N. S., Vol. xxix, No. 753, June 4, 1909, pp. 895-896. Evol. 28
332. **The Feeding Habits of Moeritherium and Palæomastodon.** *Nature*, Vol. 81, No. 2074, July 29, 1909, pp. 139-140. Pal. 184
333. **Acceptance of the Portrait of Darwin.** *Ann. N. Y. Acad. Sci.*, Vol. xix, No. 1, Pt. 1, July 31, 1909, pp. 21-22. Biog. 20

334. **The Upper Cretaceous Iguanodont Dinosaurs.** *Nature*, Vol. 81, No. 2075, Aug. 5, 1909, pp. 160-162. Pal. 185
335. **The Darwin Centenary.** Address in Reply to the Reception of Delegates. [Cambridge, England, June 23, 1909.] *Science*, N. S., Vol. xxx, No. 763, Aug. 13, 1909, pp. 199-200. Biog. 21
336. **New Carnivorous Mammals from the Fayûm Oligocene, Egypt.** *Bull. Amer. Mus. Nat. Hist.*, Vol. xxvi, Art. xxviii, Sept. 9, 1909, pp. 415-424. Pal. 186
337. [Address at Thirtieth Re-Union of Class of '77, Princeton] "*After Thirty Years, Record of the Class of 1877 Princeton University.*" Printed, not published, Trenton, N. J., 1909, pp. 45-47. Misc. 9
- 1910 338. [What the Zoological Society will do With the \$1,000,000 Fund now Being Raised.] *The New York Press*, Jan. 20, 1910, p. 6. Adm. 24
339. **History, Plan and Scope of the American Museum of Natural History.** 4to, New York, Feb. 14, 1910, 176 pp. Adm. 25
340. **Address of Welcome at Commemoration of the Founding of the American Museum of Natural History.** Unveiling of the Statue of Morris K. Jesup. *Amer. Mus. Journ.*, Vol. x, Mar., 1910, pp. 60-67. Biog. 22
340. **Memorial to the Late Morris Ketchum Jesup.** [Same address as above with a few alterations.] *Science*, N. S., Vol. xxxi, No. 792, Mar. 4, 1910, pp. 337-339. Biog. 22
341. **The Paleontologic Correlation Through the Bache Fund.** *Science*, N. S., Vol. xxxi, No. 794, Mar. 18, 1910, pp. 407-408. Corr. Geol. 3
342. **Correlation of the Cenozoic Through its Mammalian Life.** *Journ. of Geol.*, Vol. xviii, No. iii, Apr.-May, 1910, pp. 201-215. *Outlines of Geologic History*, 8vo. Chicago Univ. Press, July 10, 1910, pp. 251-264. Pal. 187
343. [As President] **Forty-first Annual Report of the Trustees of the American Museum of Natural History for the year 1909.** Issued May 1, 1910, 131 pp. Adm. 26
344. [Introduction to] **A Naturalist in the Bahama Islands, A Memorial Volume** [of Dr. John I. Northrop.] 8vo, Columbia University Press, June 15, 1910, 276 pp. Biog. 23
345. **Paleontologic Evidences of Adaptive Radiation.** *Pop. Science Monthly*, Vol. lxxvii, No. 1, July, 1910, pp. 77-81. Pal. 188
346. **THE AGE OF MAMMALS IN EUROPE, ASIA AND NORTH AMERICA.** 8vo, The Macmillan Company, New York, Oct. 25, 1910, pp. 635. German edition, Dr. W. O. Dietrich, Ed., in press. Pal. 189
347. [Abstr.] **A Means of Estimating the Age of the Mastodon and Other Proboscidea.** Separates issued in 1910. *Proc. Seventh International Zoological Congress* (Boston Meeting, Aug. 19-24, 1907), 1912, pp. 782-784. Pal. 190
348. **Great Horses That Were.** *The Evening Post*, Nov. 17, 1910, p. 9. Pal. 191

349. **Huxley on Education.** Opening Address to Columbia Students, Sept. 28 1910. 1st 2000 privately printed, Sept. 28, 1910. Reprint of 500 with some alterations, privately printed, Oct. 10. *Science*, N. S., Vol. xxxii, No. 826, Oct. 28, 1910, pp. 569-578. *Columbia University Quarterly*, Vol. xiii, No. 1, Dec., 1910 (includes some changes not in above printings), pp. 25-38. See next title. Educ. 20
349. **Huxley and Education.** Address at the Opening of the College year, Columbia University, September 28, 1910. [Same address as above with some further alterations.] Charles Scribner's Sons, Dec. 23, 1910, 12mo, 45 pp. Educ. 20
- 1911 350. **A Dinosaur Mummy.** *Amer. Mus. Journal*, Vol. xi, No. 1, Jan., 1911, pp. 7-11. Pal. 192
351. [As President] **Forty-second Annual Report of the Trustees of the American Museum of Natural History for the year 1910.** Issued February 13, 1911, 144 pp. Adm. 27
352. **Florence Nightingale.** [Introductory address at the meeting at Carnegie Hall, May 18, 1910, commemorative of the fiftieth anniversary of the founding of the first training school for nurses, at St. Thomas' Hospital, London, England.] *The Amer. Jour. of Nursing*, Feb., 1911, pp. 339-341. Educ. 21
353. **"Mutations" of Waagen and "Mutations" of De Vries or [and] "Rectigradations" of Osborn.** *Science*, N. S., Vol. xxxiii, No. 844, Mar. 3, 1911, p. 328. Evol. 29
354. **The American Museum and the Public Health.** Second Address. Introductory Remarks by the President of the American Museum of Natural History, at the Opening [May 15, 1911] of a Special Joint Exhibition Signalizing the Inauguration of the Work of the Department of Public Health of the American Museum of Natural History. Privately printed, 3 pp. Educ. 22
355. **Growth of the Building of the American Museum of Natural History.** Plans for the Future Building and Arrangement of Collections. [With the Administrative Staff.] Roy. 4to, New York, May 8, 1911, 23 pp. Adm. 28
356. **Biological Conclusions drawn from the Study of the Titanotheres.** [Read before National Acad. of Sci., Apr. 19, 1911.] *Science*, N. S., Vol. xxxiii, No. 856, May 26, 1911, pp. 825-828. Evol. 30
357. **History, Plan and Scope of the American Museum of Natural History,** 2nd edition. 8vo. New York, July, 1911, 148 pp. Adm. 29
358. **Palæontology.** *The Encyclopædia Britannica*, Eleventh Edition, Vol. xx, pp. 579-591, pll. i-ii, 1911. Pal. 193
359. **Bibliography of the Published Writings of Henry Fairfield Osborn for the Years 1877-1910.** Compiled by H. Ernestine Ripley. Privately printed, issued November 13, 1911, 27 pp. Revised, 1916. Biog. 24
360. **The Museum of the Future.** *Amer. Museum Journ.*, Vol. xi, No. 7, November, 1911, pp. 223-225. Adm. 30

361. **A Review of the Museum's Exploration Work.** *Amer. Museum Journ.*, Vol. xi, No. 8, Dec., 1911, pp. 267-269. **Adm. 31**
- 1912 362. **Darwin's Theory of Evolution by the Selection of Minor Saltations.** *The Amer. Naturalist*, Vol. xlii, No. 542, Feb., 1912, pp. 76-82. **Evol. 31**
363. [As President] **Forty-third Annual Report of the Trustees of the American Museum of Natural History for the year 1911.** Feb. 5, 1912, 173 pp. **Adm. 32**
364. [Address before Groton School on Fossils and Exploration.] *The Grotonian*, Vol. xxviii, No. xvi, Feb. 5, 1912, pp. 1, 2, 5. **Pal. 194**
365. [Abstr.] **Tetraplasy, a Law of the Four Inseparable Factors of Evolution.** *Proc. Acad. Nat. Sci. Phila.*, Vol. xiv, Mar., 1912, pp. 144-146. **Evol. 32**
366. **First Use of the Word "Genotype."** *Science*, N. S., Vol. xxxv, No. 896, Mar. 1, 1912, pp. 340-341. **Evol. 33**
367. **Phylogeny and Ontogeny of the Horns of Mammals.** *Science*, Vol. xxxv, No. 902, Apr. 12, 1912, pp. 595-596. *Ann. N. Y. Acad. Sci.*, Vol. xxii, Apr. 20, 1913, p. 341. **Evol. 34**
368. **Skull Measurements in Man and the Hoofed Mammals.** *Science*, N. S., Vol. xxxv, No. 902, Apr. 12, 1912, p. 596. *Ann. N. Y. Acad. Sci.*, Vol. xxii, Apr. 20, 1913, pp. 341-342. **Anthr. 4**
369. [Address of Welcome to Association of Collegiate Alumnae, Nov. 25, 1911.] *Jour. Assoc. of Collegiate Alumnae*, Vol. v, No. 3, Apr., 1912, pp. 250-251. **Educ. 23**
370. **Preservation of the World's Animal Life.** *Amer. Museum Journ.*, Vol. xii, No. 4, Apr., 1912, pp. 123-124. **Cons. 2**
371. **Committee on Paleontologic Correlation.** [Report of work done on the Bache Fund of National Academy of Sciences.] *Confidential Minutes of the Business Sessions of the Ann. Meet. of the Nat. Acad. of Sci. held at Washington*, Apr. 16-18, 1912, p. 12. **Pal. 195**
372. **The Continuous Origin of Certain Unit Characters as Observed by a Palæontologist.** [Harvey Lecture.] *Amer. Naturalist*, Vol. xlii, No. 544, Apr., 1912, pp. 185-206; No. 545, May, 1912, pp. 249-278. Read by title before National Acad. of Sciences, Nov. 21, 1911. **Evol. 35**
372. **The Continuous Origin of Certain Unit Characters as Observed by a Palæontologist.** [Harvey Lecture.] [Same address as above with some alterations.] *Harvey Soc. Volume*, 7th ser., Nov., 1912, pp. 153-204. **Evol. 35**
373. **Growth of the Building of the American Museum of Natural History.** Plans for Future Building and Arrangement of Collections, with Statistics to Accompany Building Plans of the American Museum of Natural History. Roy. 4to, 2d edition, May, 1912, 42 pp. **Adm. 33**
374. [Abstr.] **Zoogeographical Relations of North Africa in the Upper Eocene.** *Proc. Seventh International Zool. Congr.* (meeting Boston, 1907), Cambridge, 1912, p. 740. **Zoogr. 2**

375. **The Memory of George Borup an Inspiring Chapter in the History of the American Museum.** *Amer. Museum Journ.*, Vol. xii, No. 5, May, 1912, p. 156. Educ. 24
376. **Correlation and Paleogeography.** [Address before the American Society of Vertebrate Paleontologists, December 20, 1911. A summary of three years' study in Correlation, supported by the Bache Fund of the National Academy of Sciences.] *Bull. of the Geol. Soc. of Amer.*, Vol. 23, June 1, 1912, pp. 232-256. Geol. 6
377. **Scientific Worthies.** xxviii.—**Dr. Alfred Russell Wallace.** *Nature*, Vol. 89, No. 2224, June 13, 1912, pp. 367-370. Biog. 25
378. **Tetraplasy, the Law of the Four Inseparable Factors of Evolution.** *Jour. Acad. Nat. Sci. Phila.*, Vol. xv, 2d Ser. Special volume. Published in Commemoration of the One Hundredth Anniversary of the Founding of the Academy, Mar. 21, 1912. Issued Sept. 14, 1912, pp. 275-309. Evol. 36
379. **(Remarks in answer to the Toast "The Academy of Natural Sciences of Philadelphia and its Relation to the Development of Palæontology in America.")** Address at the Meeting in Commemoration of the One Hundredth Anniversary of the Foundation of the Academy of Natural Sciences of Philadelphia held March 19, 20, 21, 1912. *Commemoration Volume, Journ. Acad. Nat. Sci. Phila.*, Vol. xv, 2d Ser. Published in Commemoration of the One Hundredth Anniversary, March 21, 1912. Issued Sept. 14, 1912, pp. xxxii-xxxv. Pal. 196
380. **Crania of Tyrannosaurus and Allosaurus.** (Tyrannosaurus Contributions No. 3.) *Mem. Amer. Mus. of Natural Hist.*, N. S., Vol. i, Pt. i, June, 1912, pp. 1-30, Pl. i-iv, figs. 1-27. Pal. 197
381. **Integument of the Iguanodont Dinosaur Trachodon.** *Mem. Amer. Mus. of Natural Hist.*, N. S., Vol. i, Pt. ii, June, 1912, pp. 33-54, Pl. v-x, figs. 1-13. Pal. 198
382. **Craniometry of the Equidæ.** *Mem. Amer. Mus. of Natural Hist.*, N. S., Vol. i, Pt. iii, June, 1912, pp. 57-100, figs. 1-17. Pal. 199
383. **The State Museum and State Progress.** An Address delivered to the citizens and legislature at Albany, at the Dedication of the New York State Education Building, October 15, 1912. *Science*, N. S., Vol. xxxvi, No. 929, Oct. 18, 1912, pp. 493-504. Educ. 25
384. **Men of the Old Stone Age.** With an Account of a Motor Tour Through the Principal Cavern Regions of Southwestern Europe. *Amer. Mus. Journ.*, Vol. xii, No. 8, Dec. 1912, pp. 279-295. Anthr. 5
385. **(Address as Presiding Officer of Meeting of January 23, 1913, of New York Woman's League for Animals),** *Second Annual Report*, for the Year 1912, pp. 8-9. Misc. 10
- 1913 386. **The Wild Equines of the Zoological Park.** *Zool. Soc. Bull.*, Vol. xvi, No. 55, January, 1913, pp. 941-948. Zool. 11
387. **Foreword to "Our Vanishing Wild Life, Its Extermination and Preservation"** by William T. Hornaday, 1st ed., 3,000 published by the Charles Scribner's Sons, Jan. 18, 1913, the 2d 10,000 by the N. Y. Zoological Society, January 18, 1913, 411 pp. (pp. vii-viii). Cons. 3

388. [As President] **Forty-fourth Annual Report of the Trustees of the American Museum of Natural History for the Year 1912.** Feb. 3, 1913, 208 pp. Adm. 34
389. **Has Evolution "Collapsed"? A Symposium by Scientists.** *The Biblical World*, Vol. xli, No. 2, Feb., 1913, pp. 76-77. Evol. 37
390. **Biographical Memoir of Joseph Leidy, 1823-1891.** [Read by title at meeting of National Acad. of Sci., Apr. 18-20, 1911. Presented to the Academy at the April Meeting, 1912.] *Biographical Memoirs National Acad. of Sciences.* Part of Vol. vii, Feb. 1913, pp. 339-396. Biog. 26
391. **Foreword to "The Arabian National Stud Book" by H. K. Bush-Brown.** Published by the Arabian Horse Club of America, Washington, D. C., Mar. 20, 1913, p. 3. Zööl. 12
392. **Tyrannosaurus, Restoration and Model of the Skeleton.** *Bull. Amer. Mus. Natural Hist.*, Vol. xxxii, Art. iv, Apr. 11, 1913, pp. 91-92, pll. iv-vi. Pal. 200
393. **The New Order of Sainthood.** [Pasteur.] *The Churchman.* Vol. cvii, No. 15 (whole No. 3560), Apr. 12, 1913, pp. 474-475. Reprinted by Charles Scribner's Sons, 12 mo., Oct., 1913, 17 pp. Biog. 27
394. **The American Museum and the Public Health.** Third Address, Introductory Remarks by the President of the American Museum of Natural History at the Public Meeting on April 16th, 1913, in the Interest of the Campaign for Civic Cleanliness Instituted by the New York City Department of Health and at the Opening of the Hall of Public Health of the American Museum of Natural History. Privately printed. 2 pp. Educ. 26
395. **The Gifts of Mr. Morgan to the American Museum, with an Expression of Gratitude and Indebtedness by the Board of Trustees.** *Amer. Museum Journ.*, Vol. xiii, No. 4, April, 1913, pp. 157-158. Misc. 11
396. **The Horse Past and Present in the American Museum of Natural History.** Issued by the American Museum May 6, 1913, 4to, 37 pp. Pal. 201
397. **The Museum and Nature Study in the Public Schools.** [With George H. Sherwood.] *Misc. Publ. Am. Mus. Natural Hist.*, No. 3, May 19, 1913, 13 pp. [Appeared in part in *Ann. Report Am. Mus. Natural Hist.* for the year 1912.] Educ. 27
398. **Eomorphus, an American Eocene Chalicotheres.** *Bull. Am. Mus. Natural Hist.*, Vol. xxxii, Art. xiv, July 25, 1913, pp. 261-274. Pal. 202
399. **The Preservation of Animal Life.** Leaflet No. 16 of Am. Soc. for the Prevention of Cruelty to Animals, Aug., 1913, 1 p. Cons. 4
400. **Lower Eocene Titanotheres. Genera Lambdotherium, Eotitanops.** *Bull. Amer. Mus. Natural Hist.*, Vol. xxxii, Art. xxi, Sept. 2, 1913, pp. 407-415. Pal. 203
401. **The Skull of Bathypsis, Wind River Uintathere.** *Bull. Amer. Mus. Natural Hist.*, Vol. xxxii, Art. xxii, pp. 417-420, Sept. 2, 1913. Pal. 204
402. **Address at dinner tendered on Tuesday, October 21, 1913, to the Delegates to the Dedication of the Graduate College of Princeton Uni-**

- versity. *The Princeton Alumni Weekly*, Vol. XIV, No. 5, Oct. 29, 1913, pp. 110-111. Educ. 28
403. Alfred Russel Wallace. *Pop. Sci. Monthly*, Vol. lxxxiii, No. 6, Dec. 1913, pp. 523-537. Biog. 28
404. A Great Naturalist, Alfred Russel Wallace, 1823-1913. *Amer. Museum Journ.*, Vol. xiii, No. 8, Dec. 1913, pp. 331-333. Biog. 29
- 1914 405. [As President] Forty-fifth Annual Report of the Trustees of the American Museum of Natural History for the Year 1913. Feb. 2, 1914, 102 pp. Adm. 35
406. [Resolution of Board of Trustees of American Museum of Natural History to the Memory of John Pierpont Morgan.] Adopted at Special Meeting of the Board on April 4, 1913. *Forty-fifth Ann. Rept. Amer. Mus. Natural Hist.* Feb. 2, 1914, pp. 15-16. De Luxe edition for family and archives. Misc. 12
407. [Resolution of Board of Trustees of American Museum of Natural History to the Memory of George Sullivan Bowdoin.] Adopted at annual meeting of the Board, Feb. 2, 1914. *Forty-Fifth Annual Report of the Amer. Mus. Natural Hist.* Feb. 2, 1914, p. 88. De Luxe edition for family and archives. Misc. 13
408. Close of the Cretaceous and Opening of Eocene Time in North America. (Read before the Paleontological Society Dec. 31, 1913.) *Bull. Geol. Soc. of America*. Vol. 25, No. 3, Sept. 15, 1914, pp. 321-323. Geol. 7
409. Recent Results in the Phylogeny of the Titanotheres. (Read before the Paleontological Society, Dec. 31, 1913.) *Bull. Geol. Soc. of Amer.* Vol. 25, No. 3, Sept. 15, 1914, pp. 403-405 Abstr. "Final Results in the Phylogeny of the Titanotheres." Vol. 25, No. 1, Mar. 1914, p. 139. Pal. 205
410. [Abstr.] New Methods of Restoring Eotitanops and Brontotherium. (Read before the Paleontological Society Dec. 31, 1913.) *Bull. Geol. Soc. Amer.* Vol. 25, No. 3, Sept. 15, 1914, p. 406. Pal. 206
411. Restoration of the World Series of Elephants and Mastodons. (Read before the Paleontological Society, Jan. 1, 1914.) *Bull. Geol. Soc. of Amer.* Vol. 25, No. 3, Sept. 15, 1914, pp. 407-410. Pal. 207
412. [Abstr.] Rectigradations and Allometrons in Relation to the Conception of the "Mutations of Waagen," Of Species, Genera, and Phyla. (Read before the Paleontological Society, Jan. 1, 1914.) *Bull. Geol. Soc. of Amer.* Vol. 25, No. 3, Sept. 15, 1914, pp. 411-416. Vol. 25, No. 1, Mar. 1914, p. 142. Pal. 208
413. The Broom Fossil Reptile Collection. *Amer. Museum Journ.* Vol. xiv, No. 4, Apr. 1914, pp. 137-138. Pal. 209
414. The Museum of the American People. The Morris K. Jesup Endowment Fund of Five Million Dollars, A Recent Bequest of Mrs. Jesup, Restricted to Educational and Scientific Work. Maintenance and Building of the Institution Still in the Hands of the Citizens of New York City According to the Original Purpose of Foundation. *Amer. Museum Journ.* Vol. xiv, Nos. 6-7, Oct.-Nov. 1914, pp. 219-220. Adm. 36

- 1915 415. [As President] **Forty-sixth Annual Report of the Trustees of the American Museum of Natural History for the Year 1914.** Feb. 1, 1915, 192 pp., 1 map, 17 pls. Adm. 37
416. **Origin of Single Characters as Observed in Fossil and Living Animals and Plants.** Delivered before Section of Biology of N. Y. Acad. of Sciences, Dec. 8, 1913. Presidential Address before the Paleontological Society of America, Dec. 31, 1914. [Sequel to Harvey Lecture, see No. 372.] *Amer. Naturalist*, Vol. xlix, No. 580, Apr. 1915, pp. 193-239. Evol. 38
417. **Eberhard Fraas.** *Science*, N. S. Vol. xli, No. 1059, Apr. 16, 1915, pp. 571-572. Biog. 30
418. **Review of the Pleistocene of Europe, Asia, and Northern Africa** [Revision for German edition of author's work "The Age of Mammals."] *Ann. N. Y. Acad. Sci.*, Vol. xxvi, July 30, 1915, pp. 215-315, 20 text figs. Corr. Geol. 4
419. **Close of Jurassic and Opening of Cretaceous Time in North America.** **Introduction to Symposium.** Presented before The Paleontological Society, Dec. 30, 1914. *Proc. Pal. Soc.* printed in *Bull. Geol. Soc. of Amer.*, Vol. 26, Aug. 17, 1915, pp. 295-302, 1 text fig. Geol. 8
420. **The Pacific Coast Meeting of the American Association for the Advancement of Science.** *Science*, N. S., Vol. xlii, No. 1084, Oct. 8, 1915, pp. 472-473. Educ. 29
421. **The Origin of New Adaptive Characters.** [A Reply.] *Nature*, Vol. 96, No. 2402, Nov. 11, 1915, pp. 284-285. Evol. 39
422. **MEN OF THE OLD STONE AGE, THEIR ENVIRONMENT, LIFE, AND ART.** Hitchcock Lectures of the University of California. Delivered at Berkeley, Feb., 1914. 8vo. Charles Scribner's Sons, Nov. 24, 1915, 545 pp., pls. i-viii, 268 text figs. Second edition with slight alterations, Jan. 28, 1916. Reported as follows: "The Succession of Human Types in the Glacial and Interglacial Epochs of the European Pleistocene," before The Amer. Philosophical Soc., Apr. 17, 1913; "Geological Age and Succession of Early Human Types," before N. Y. Acad. of Sciences, Jan. 12, 1914. [Abstr.] "Men of the Old Stone Age," *Ann. N. Y. Acad. Sciences*, Vol. xxvi, 1915, p. 412. Anthr. 6

SUMMARY

Administration.....	37
Anthropology.....	6
Biography.....	30
Conservation.....	4
Correlation, Geology.....	4
Correlation, Zoogeography.....	1
Education.....	29
Embryology.....	4
Evolution (Biology).....	39
Geology.....	8
Miscellaneous.....	13
Neurology.....	9
Odontology or Odontography.....	11
Palæontology.....	209
Psychology.....	4
Zoogeography.....	2
Zoölogy.....	12

BIBLIOGRAPHY OF HENRY FAIRFIELD OSBORN FOR 1916

-
- 1916 423. John Muir. *Sierra Club Bull.*, Vol. X, No. 1, Jan., 1916, pp. 29-32.
424. [As President] **Forty-seventh Annual Report of the Trustees of the American Museum of Natural History for the Year 1915.** Feb. 7, 1916, 194 pp., 16 pls.
425. **Additional Characters of Tyrannosaurus and Ornithomimus.** *Proc. Paleontological Soc., Bull. Geol. Soc. of Am.*, Vol. 27, Mar. 31, 1916, pp. 150-151.
426. **Mutations of Waagen, Mutationsrichtung of Neumayr, Mutants of De Vries: Relations of these Phenomena in Evolution.** Read before The Paleontological Soc., Dec. 30, 1915. Title *Proc. Paleontological Soc., Bull. Geol. Soc. of Am.*, Vol. 27, Mar. 31, 1916, p. 148. Not published elsewhere.
427. [Tribute to John Muir]. *Rept. Ann. Meeting of the Alpine Club*, 1916, pp. 17-18.
428. **The Museum as the New Force in Public School Development.** *Jour. of the Nat'l Inst. of Social Sciences*, Vol. II, July, 1916, pp. 155-157. *Proc. Nat'l Education Assoc.*, Vol. —, 1916, pp. —, in press.
429. Seth Low [Memorial Resolution]. *Ann. N. Y. Acad. Sciences*, Vol. xxvii, 1916, p. —, in press.
430. Gustav Schwalbe. *Science*, N. S., Vol. xlv, No. 1125, July 21, 1916, p. 97.
431. **The Origin and Evolution of Life upon the Earth.** (In part) *The Scientific Monthly*, Vol. 3, 1916, July, pp. 5-22, Aug., pp. 170-190, Sept., pp. 289-307, Oct., pp. 313-334, Nov., pp. 502-513, Dec., pp. 601-614, illustrated. In full, under title "**The Origin and Evolution of Life**," 8vo. Charles Scribner's Sons, in press. Fourth course of lectures on the William Ellery Hale Foundation, National Academy of Sciences, delivered at the meeting of the Academy at Washington, on April 17 and 19, 1916.
432. **Preface to "The Passing of the Great Race,"** by Madison Grant. 8vo. Charles Scribner's Sons, Oct. 21, 1916, xxi and 245 pp., 3 charts, 4 maps (pp. vii-ix), pp. vii-ix.
433. **Two New Oligocene Titanotheres.** *Bull. Am. Mus. Nat. Hist.*, Vol. xxxv, Art. xl, Nov. 2, 1916, pp. 721-723.
434. **\$1,000,000 Wing to be Built on Museum Here.** *The New York Times Sunday Mag. Sect.*, Nov. 5, 1916, pp. 5-6.

BIBLIOGRAPHY OF HENRY FAIRFIELD OSBORN.

435. **Growth of the Building of the American Museum of Natural History.** Proposed New East Facade Facing Central Park. Plans for the Southeast Wing and New Southeast Court Building. Roy. 4to, 4th edition, Dec. 1, 1916, 13 pp.
436. **A Note from Sweden.** *The New York Times*, Dec. 24, 1916.
437. **Report of the President for 1915.** *Tenth Ann. Rept. Amer. Bison Soc.* (1915-1916), Dec., 1916, pp. 14-23.
438. [As President] **Abstract of Remarks of Henry Fairfield Osborn Pres. American Bison Society.** *Tenth Ann. Rept. Am. Bison Soc.* (1915-1916), Dec., 1916, pp. 33-34.
439. **Foreword to "Autobiographical Notes and a Bibliography of the Scientific Publications of Joel Asaph Allen."** Publ. Am. Mus. Nat. Hist., 8vo, Dec. 26, 1916, xi and 215 pp. (p. v).
440. **Man at War 125,000 Years.** *The Sun*, Vol. lxxxiv, Dec. 31, 1916, Sect. 5, pp. 1, 11.
- 1917 441. **Skeletal Adaptations of Ornitholestes, Struthiomimus, Tyrannosaurus.** *Bull. Am. Mus. Nat. Hist.*, Vol. xxxv, Art. xliii, Jan. 13, 1917, pp. 733-771, figs. 1-21, pls. xxiv-xxvii.