

- U. S. NAVAL advisory board, report of, on mild steel. Washington, Government. 216 p. 8°.
- department. Annual report of the hydrographer to the bureau of navigation for the year ending June 30, 1886. Washington, Government. 51 p. 8°.
- U. S. SENATE. Report of the select committee on ordinance and war ships, with appendix. Washington, Government. 512 p. 8°.
- WHITNEY, W. D. Practical French grammar. New York, Holt. 442 p. 12°.

### Calendar of Societies.

#### *Philosophical society, Washington.*

- Jan. 15. — G. K. Gilbert, The graphic method in research; C. D. Walcott, Geologic age of the lowest formation of Emmons's Taconic system; H. A. Hazen, The sky glows of 1883; H. A. Hazen, Lunar atmospheric tides.
- Jan. 22. — F. W. Clarke, Present status of mineralogy; R. T. Hill, The topography and geology of the cross timbers of Texas.

#### *Chemical society, Washington.*

- Jan. 13, election of officers for 1887. — President, Prof. E. I. Fristoe; vice-presidents, Prof. F. W. Clarke and Dr. J. H. Kidder; treasurer, Prof. William H. Seaman; secretary, Dr. A. C. Peale; members at large of executive committee, Mr. Edgar Richards, Prof. H. W. Wiley, Mr. J. S. Diller, Prof. Thomas Robinson.
- W. H. Seaman, Models of molecular structure.

#### *Biological society, Washington.*

- Jan. 22. — G. Brown Goode, The beginnings of natural history in America: the third century.

#### *Natural science association, Staten Island.*

- Jan. 8. — Mr. Gratacap, Drift fossils of Staten Island; W. T. Davis, Short account of two interesting insects from the island.

#### *Torrey botanical club, New York.*

- Jan. 11. — Dr. Britton, Curtis's latest fascicle of southern plants; H. H. Reesby, Botanical notes from South America.

Annual meeting, election of officers. — President, Dr. J. S. Newberry; vice-president, Thomas Hogg; treasurer, F. J. H. Merrill; recording secretary, Arthur Hollick; corresponding secretary, Miss H. C. Gaskin; curator, Miss M. O. Steele; librarian, Dr. N. L. Britton; editor, Elizabeth G. Britton; associate editors, F. J. H. Merrill, Jos. Schrenk, H. H. Reesby, C. H. Kain.

#### *Connecticut academy of arts and sciences.*

- Jan. 19. — J. W. Fewkes, Is the vast mass of oceanic water, between the surface and bottom, barren of life, or occupied by a peculiar fauna?

#### *New England meteorological society, Boston.*

- Jan. 18. — G. L. Goodale, Some supposed relations between forests and atmospheric ozone; F. V. Pike, Comparisons of rain-gauges at Newburyport; W. M. Davis, Winter temperatures about Mount Washington.

#### *Society of arts, Boston.*

- Jan. 20. — Edward Burgess, The evolution of the modern yacht.

#### *Society of natural history, Boston.*

- Jan. 19. — J. S. Kingsley, Arthropod development.

### Advertised Books of Reference.

THE STANDARD NATURAL HISTORY. By all the leading American scientists. Edited by J. S. Kingsley, Ph.D. Vol. I. Lower Invertebrates. Vol. II. Crustacea and Insects. Vol. III. Fishes and Reptiles. Vol. IV. Birds. Vol. V. Mammals. Vol. VI. Man. 6 vols., nearly 2,500 illustrations and 3,000 pages. Imp. 8vo, cloth, \$36.00; half morocco, \$48.00. S. E. Cassino & Co. (Bradlee Whidden), Publishers, Boston.

THE BUTTERFLIES OF THE EASTERN UNITED STATES. For the use of classes in zoölogy and private students. By G. H. French, A.M. Illustrated by 93 engravings and a map of the territory represented. Large 12mo. Cloth. \$2.00. J. B. Lippincott Company, Pubs., Philadelphia.

LIPPINCOTT'S BIOGRAPHICAL DICTIONARY. A new, thoroughly revised, and greatly enlarged edition. A universal pronouncing dictionary of biography and mythology. Containing complete and concise biographical sketches of the eminent persons of all ages and countries. By J. Thomas, M.D., LL.D. Imperial 8vo. 2550 pages. Sheep. \$12.00. J. B. Lippincott Company, Pubs., Philadelphia.

MANUAL OF THE BOTANY OF THE ROCKY MOUNTAINS. Coulter (Wabash Coll.), 8vo., 49 pp. \$1.85. Ivison, Blakeman, Taylor & Co., Pubs., New York.

STRUCTURAL BOTANY; or, Organography on the basis of Morphology; the principles of Taxonomy and Phytography and a Glossary of Botanical terms. Gray (Harvard), 8vo., 454 pp. \$2.30. Ivison, Blakeman, Taylor & Co., Pubs. New York.

INSTRUCTION FOR THE DETERMINATION OF ROCK-FORMING MINERALS. By Dr. Eugen Hussak, Privat Dozent in the University of Grau. Translated from the German by Erastus G. Smith, Professor of Chemistry and Mineralogy, Beloit College. With 103 plates, 8vo, cloth. \$3.00. John Wiley & Sons, Pubs., Astor Place, New York.

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ANNALS OF MATHEMATICS. Edited by Ormond Stone and William M. Thornton. Office of Publication: University of Virginia. \$2 per vol. of 6 nos.

SCIENCE ECONOMIC DISCUSSION. A controversy between the adherents of the old and new schools of political economy regarding their main points of difference, by Henry C. Adams, Richard T. Ely, Arthur T. Hadley, E. J. James, Simon Newcomb, Simon N. Patten, Edwin R. A. Seligman, Richmond M. Smith, and Frank W. Taussig. 12mo. Paper, 50 cts. Science Company, Pubs., New York.

PHYSIOLOGICAL BOTANY: I. Outlines of the Histology of Phaenogamous Plants; II. Vegetable Physiology. Goodale (Harvard), 8vo., 560 pp. \$2.30. Ivison, Blakeman, Taylor & Co., Pubs., New York.

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