

gether with an account of their varying needs and habits.

The appendix contains a chapter on theories of breeding and a list of reference works. The list will undoubtedly prove useful, but the chapter on the theories of breeding is a disappointment. It is an endeavor to explain in a few short pages the theories of Mendel, Darwin, De Vries, Galton, and Davenport, and it leaves the reader with a conviction of his own utter confusion, and a suspicion that the author, too, was confused.

The book is well illustrated with nearly a hundred reproductions from photographs.

There is among those who come in contact with children a growing belief that in fostering and developing a child's fondness for pets we foster and develop highly desirable character traits in the child himself, and, as Mr. Crandall suggests in the preface to his book, "many of the problems which perplex the adolescent adjust themselves normally by constant contact with reproductive life."

Mr. Crandall's book is the best and most complete work which we have seen in the field treated, and we suggest that every pet-loving son procure a copy for his parents.—  
H. W. GRINNELL.

#### MINUTES OF COOPER CLUB MEETINGS

##### NORTHERN DIVISION

MARCH.—The regular meeting of the Northern Division of the Cooper Ornithological Club was held at the Museum of Vertebrate Zoology on March 15 at eight o'clock. Dr. Evermann called the meeting to order with the following members in attendance: Messrs. Benton, Carriger, Evermann, Grinnell, Hanford, La Jeunesse, Squires, Storer, Wright; Mesdames Allen, Culver, Ferguson, Field, Grinnell, Head, Meade, Newhall, Witter. Visitors: Messrs. Austin, Wm. Hall, Meade; Mesdames Evermann, Boyle, Stone, Straight.

The minutes of the February meeting were read and corrected, and the minutes of the February meeting of the Southern Division were read. Mrs. E. G. Witter, whose name was proposed at the January meeting, and the eleven names passed on for approval from the December and January minutes of the Southern Division, were elected to membership.

The name of J. Harold Evans of Santa Rosa was proposed by H. W. Carriger, and that of Paul J. Hartmann, 1118½ Maple

Ave., Los Angeles, by W. Lee Chambers from the Southern Division.

The resignation of Miss Alice F. Crane was accepted.

A very interesting account of the Birds of San Francisco County was given by Rev. W. A. Squires. The discussion of conditions in Golden Gate Park led to a motion by Dr. Grinnell that a committee be appointed to act in conjunction with the Audubon Association of the Pacific with reference to the attempted extermination of supposedly injurious species in Golden Gate Park. The President appointed on this committee Messrs. Squires, Carriger and Lastreto. Adjourned.—AMELIA S. ALLEN, *Secretary*.

APRIL.—The regular meeting of the Cooper Ornithological Club (Northern Division) was held at the Museum of Vertebrate Zoology, April 19, 1917. There were present: Messrs. Bryant, Evermann, Palmer, Storer, Swarth, Wright; Mesdames Allen, Bryant, Culver, Ferguson, Grinnell, and Knappen. Messrs. Allen and Linforth, Miss Straight and Mrs. Swarth were visitors.

The minutes of the March meeting were read and approved, followed by the minutes of the March meeting of the Southern Division and of the January and February meetings of the Intermountain Chapter. Mr. J. Harold Evans was elected to membership; also Mr. Paul J. Hartmann, whose name was received from the Southern Division.

The following names were proposed for membership: Mrs. Bessie W. Kibbe, 1534 Grove St., Berkeley, by Mr. Swarth; Mrs. Edwin T. Blake, 2233 Piedmont Ave., Berkeley, and Mrs. Arthur Hubbard Cole, 2827 Hillegass Ave., Berkeley, by Mrs. J. T. Allen; also the five names presented at the March meeting of the Southern Division.

Mr. Storer reported to the Club the substance of an inquiry from Mr. E. W. Nelson, Chief of the Biological Survey, with regard to the destruction of water-birds by crude oil floating on the surface of the Pacific Ocean. Pres. Lastreto of the Audubon Association of the Pacific reported that he had been in correspondence with the Inspector of the 18th Lighthouse District, who wrote that unless the discharge of oil in the neighborhood of the Farallones could be prevented, the colonies of nesting birds on those islands would soon be destroyed. Other investigations as to the custom of discharging oil were reported. Dr. Bryant moved the appointment by the Chair of a committee to investigate the question and report at the next meeting. Carried.

On motion of Mr. Swarth, seconded by Mr. Storer, the election of Mr. E. W. Nelson to Honorary membership in the Club was unanimously approved by the Northern Division.

A letter from Dr. A. K. Fisher announcing the celebration of the seventieth birthday of Mr. John H. Sage on April 20 led to a motion which was unanimously carried that a congratulatory telegram be sent by the Northern Division. Messrs. Swarth and Storer were appointed a committee to carry out the Club's wishes.

Mr. Storer reported that House Bill 2612, an enabling act to carry out the Canadian Treaty for protecting migratory birds, was up for consideration, and personal letters to representatives were urged.

Business of the evening having been disposed of, the Club listened with pleasure to a paper by Professor James T. Allen on "Birds in Ancient Greek Literature and Art." Much interest was shown in the ancient history of ornithology in the apt descriptions quoted from Homer, Hesiod, Aristophanes and Aristotle.

Dr. T. S. Palmer then made a plea for broader historical study in connection with ornithology, particularly in the study of the ornithology of California. An exact knowledge of the lives of early collectors in the state would solve many questions of locality and nomenclature.

Before adjournment, the President appointed Messrs. Bryant and Wright as the committee to investigate the question of crude oil and the destruction of bird-life. Adjourned.—AMELIA S. ALLEN, *Secretary*.

MAY.—The May meeting of the Northern Division of the Cooper Ornithological Club was held at the home of the Secretary at 3:30 P. M., May 13, 1917. Dr. Evermann called the meeting to order with the following members and friends in attendance: Messrs. Carriger, Davis, Evermann, Grinnell, Hansen, Holman, Lastreto, Morley, Smith, Steinmetz, Swarth, Wright; Mesdames Allen, Culver, Ferguson, Grinnell, Gunn, Kelley, Kluegel, Knappen, Lombardi, Schlessinger, Swezey. The visitors were: Mr. Allen, Mrs. Essenberg, Mr. and Mrs. Kibbe, Mrs. Morley, Mrs. Smith, Mr. and Mrs. Smythe, Miss Straight, Mrs. Swarth, Master George Swarth and Miss Kelley.

After the reading of the April minutes of the Northern Division and voting their approval, the April applicants, Mrs. Edwin T. Blake, Mrs. A. H. Cole, Mrs. Bessie W. Kibbe, and five others whose names were

proposed at the March meeting of the Southern Division were elected to membership.

Mr. Lastreto reported for the committee appointed to investigate the killing of supposedly obnoxious birds in Golden Gate Park. The committee had agreed to report as really destructive the Cooper and the Sharp-shinned Hawks, but to ask that the Kingfishers, Owls and Red-tailed Hawks be protected. Correspondence with the police having proved unsatisfactory, the committee had written to Mr. John McLaren, Superintendent of the Park. In the absence of Dr. Bryant, Mr. Lastreto reported the activity of the joint committee of the Cooper Club and the Audubon Association of the Pacific with regard to the control of crude oil on the Pacific.

Dr. Grinnell then gave a talk on "The Birds of Death Valley", presenting many interesting problems of migration and adaptation. After adjournment members of the Club went for a walk in Strawberry Canyon. —AMELIA S. ALLEN, *Secretary*.

#### SOUTHERN DIVISION

APRIL.—Regular monthly meeting of the Southern Division was held at the Museum of History, Science and Art, April 27, 1917. President Miller officiated, with other members in attendance as follows: Appleton, Brown, Bishop, Daggett, Holland, Little, Nokes, Wyman and Shepardson. Mr. Hannaford was a visitor.

Minutes of the March meeting were read and approved, followed by reading of minutes of the other Divisions. On motion of Dr. Nokes, seconded by Mr. Brown, the applicants whose names were presented at the March meeting, were elected. New names were presented as follows: Dr. William Henry Bergtold, 1159 Race St., Denver, Colo.; Henry O. Havemeyer, 129 Front St., New York City; Frank Charles Hennessey, 457 Albert St., Ottawa, Ontario, Canada; Charles F. Jenney, 100 Gordon Ave., Hyde Park, Mass.; Harold L. Madison, Curator Park Museum, Providence, R. I.; and Joseph Welsh, Pasadena Hardware Co., Pasadena, Calif.; all presented by W. Lee Chambers; A. W. Hannaford, R. R. 9, Box 700, Los Angeles, by D. I. Shepardson; Harry V. Johnson, R. R. 1, Escondido, Calif., by A. M. Ingersoll; Mrs. Eugene W. Leach, 736 Wisconsin St., Racine, Wis., by Wright M. Pierce.

There being no other business matters for consideration, the members informally discussed bird matters and inspected a series of skins of the duck family. Adjourned.—L. E. WYMAN, *Secretary*.