

or calls without first having read, indeed thoroughly studied, Saunders' essay. Every field student, most especially, should seek from it instruction as to proper graphic methods to adopt for recording bird voices at the moment they are heard out-of-doors.

MINUTES OF COOPER CLUB MEETINGS

NORTHERN DIVISION

JUNE.—The regular monthly meeting of the Northern Division of the Cooper Ornithological Club was held on June 27, 1929, at 8:00 p. m., in Room 101, Zoology Building, University of California, Berkeley, with about sixty members and guests in attendance. Vice-president Clabaugh occupied the chair. The reading of minutes of last meetings of both divisions was waived. Applications for membership were read as follows: Earl C. O'Roke, Zoology Department, University of California, Berkeley, proposed by J. Grinnell; Ward C. Russell, R. 2, Box 13, Santa Cruz, Calif., by Edna M. Fisher; Miss Gwynedd Webster, 1424 Allston Way, Berkeley, by J. Grinnell; Claude T. Silva, R. F. D. 628, San Lorenzo, Calif., by E. R. Hall.

A letter was read from Miss Emily Smith, Secretary of the Santa Clara Valley Audubon Society, cordially inviting the Northern Division of the Cooper Club to "come home" to a joint meeting with the Audubon Society in San Jose on the fourth Thursday in October. [It will be recalled here that the Club was originally organized in San Jose.] Because of the absence of many Northern Division members on vacation, action on the invitation was deferred until the July meeting.

Miss Margaret Wythe reported the presence during the past three weeks of a singing Cassin Vireo in Faculty Glade. A paper on the "Meaning of Migration in Birds" was read by Mr. Grinnell, but discussion of it was deferred because of the presence of a notable visitor. The Chairman thereupon introduced Dr. T. S. Palmer, who outlined in a most interesting way the early ornithological history of California, the natural history recorded by members of the Geological Survey of California, and so on down to the twenty-five year period ending about 1895. Dr. Palmer himself, during his residence in Oakland and Berkeley, was a member of this group and it was a great pleasure

to listen to his reminiscences of the collectors and collecting grounds of those days. He urged that today's students regard the recording of the activities of the earlier group as an imperative duty, since with each year the opportunity lessens for accurate study of that period.

In closing, Dr. Palmer told of the very large number of foreign birds imported each year into California and of the large aviaries which have been established, notably one on Catalina Island, which is said to contain 300 species of exotic birds. He pointed out the fact that nowhere else in the United States has the student of ornithology such an excellent opportunity to broaden his knowledge of native species through comparison with related genera from other countries.

Adjourned.—HILDA W. GRINNELL, *Secretary*.

SOUTHERN DIVISION

JUNE.—The regular monthly meeting of the Southern Division of the Cooper Ornithological Club was held on June 25, 1929, at 8:00 p. m., at the Los Angeles Museum, Los Angeles, California, with about twenty members and friends present. President Harris was in the chair, and in the absence of Mr. Michener, Mr. Willett acted as secretary. Minutes of the Southern Division meeting in May were read.

The following were applications for membership. John Edwin Coe, 4015 N. Ashland Ave., Chicago, Ill., by W. Lee Chambers; W. R. Penny, Hotel Carlton, Berkeley, Calif., by Genevieve S. Burk; G. A. Frick, 5922 Tipton Way, Los Angeles, Calif., by W. Lee Chambers; S. A. Glassell, 1533 Santa Monica Blvd., Beverly Hills, Calif., by W. Lee Chambers; Walter M. Avis, 129 S. Thomas St., Pomona, Calif., by Harold Michener; Alva Oakes, 586 Everett St., Portland, Oreg., by Stanley G. Jewett; B. J. Hales, Brandon Normal School, Brandon, Manitoba, Canada, by H. H. Bailey; Lucile Hinze, 813 S. Adams St., Glendale, Calif., by L. H. Miller.

It was voted that no meetings of the Southern Division be held during July and August. Mr. Hubricht reported finding a nest of the Ash-throated Flycatcher in an upright steel pipe. Mr. Reis exhibited a double nest of the Bullock Oriole.

The meeting then adjourned for inspection of several trays of skins of Central American birds.—G. WILLETT, *Acting Secretary*.