



# THE CONDOR

JOURNAL OF THE COOPER ORNITHOLOGICAL SOCIETY

LIBRARY

1988 0 9 1987

UNIVERSITY OF MICHIGAN

Volume 89

February 1987

Number 1

## CONTENTS

- Vocal Dialects and their Possible Relation to Honest Status Signalling in the Brown-Headed Cowbird  
STEPHEN I. ROTHSTEIN and ROBERT C. FLEISCHER . . . . . 1
- Ecology, Behavior, and Conservation of the Maui Parrotbill  
STEPHEN MOUNTAINSPRING . . . . . 24
- Antipredator Behavior and Breeding Success in Greater Golden-Plover and Eurasian Dotterel  
INGVAR BYRKJEDAL . . . . . 40
- On the Composition of Bird Eggs  
P. R. SOTHERLAND and H. RAHN . . . . . 48
- Habitat Use by Mountain Quail in Northern California  
LEONARD A. BRENNAN, WILLIAM M. BLOCK, and R. J. GUTIÉRREZ . . . . . 66
- Songs of the Cocos Flycatcher: Vocal Behavior of a Suboscine on an Isolated Oceanic Island  
DONALD E. KROODSMA, VICTORIA A. INGALLS, THOMAS W. SHERRY, AND TRACEY K. WERNER . . . . . 75
- Breeding Ecology of the Hawaii Common Amakihi  
CHARLES VAN RIPER III . . . . . 85
- Effects of Variation in Food Quality on the Breeding Territoriality of the Male Anna's Hummingbird  
DONALD R. POWERS . . . . . 103
- Sperm Competition after Sequential Mating in the Ringed Turtle-Dove  
M. ELEANOR SIMS, GREGORY F. BALL, and MEI-FANG CHENG . . . . . 112
- Handling of Pinyon Pine Seed by the Clark's Nutcracker  
L. SCOTT JOHNSON, JOHN M. MARZLUFF, and RUSSELL P. BALDA . . . . . 117

(Continued on outside back cover)

# COOPER ORNITHOLOGICAL SOCIETY

## OFFICERS

*President:* C. JOHN RALPH, Redwood Sciences Laboratory, U.S. Forest Service, 1700 Bayview Drive, Arcata, CA 95521.

*President-elect:* RUSSELL P. BALDA, Department of Biological Sciences, Northern Arizona University, Flagstaff, AZ 86011.

*Secretary:* MICHAEL L. MORRISON, Department of Forestry and Resource Management, University of California, Berkeley, CA 94720.

*Assistant Secretary:* MARTIN G. RAPHAEL, Forest Range Watershed Lab., 222 South 22nd St., Laramie, WY 82070.

*Treasurer:* CHARLES T. COLLINS, Department of Biology, California State University, Long Beach, CA 90840.

*Assistant Treasurer:* JAMES R. NORTHERN, Department of Biology, 405 Hilgard Avenue, University of California, Los Angeles, CA 90024.

*Editor, The Condor:* MARTIN L. MORTON, Department of Biology, Occidental College, Los Angeles, CA 90041.

*Editor, Studies in Avian Biology:* FRANK A. PITELKA, Museum of Vertebrate Zoology, University of California, Berkeley, CA 94720.

## BOARD OF DIRECTORS

1984-1987

MARTHA H. BALPH  
RALPH J. RAITT  
JARED VERNER

1985-1988

DANIEL W. ANDERSON  
ROBERT D. OHMART  
CHARLES VAN RIPER III

1986-1989

LLOYD F. KIFF  
J. DAVID LIGON  
GLEN E. WOOLFENDEN

**COMMITTEES. BY-LAWS:** J. Verner,\* L. R. Mewaldt, E. A. Schreiber. **FINANCE:** J. R. Jehl, Jr.,\* R. W. Schreiber. **INVESTING TRUSTEES:** O. P. Pearson,\* N. K. Johnson, E. N. Stone. **HISTORY:** H. Cogswell,\* L. Stone, J. Von Bloeker. **MEMBERSHIP:** M. G. Raphael,\* D. M. Finch, T. A. Scott, S. H. Anderson. **HONORARY MEMBERS:** R. J. Raitt,\* W. R. Dawson. **PUBLICATIONS:** C. van Riper III,\* C. D. Marti, M. L. Morrison. **ANNUAL MEETING:** G. E. Woolfenden,\* J. Tate, Jr., C. Carey, C. van Riper III. **CONSERVATION AND RESOLUTION:** D. F. Tomback,\* C. E. Bock, F. L. Knopf, F. B. Samson, B. T. Thomas. **CENTENNIAL MEETING:** L. R. Mewaldt,\* H. Cogswell, F. A. Pitelka. (\*Chair).

## MEMBERSHIP

Any person interested in ornithology may become a member of the Cooper Ornithological Society upon payment of dues. Additional information about membership and the Society is given in the Bylaws (Condor 83:390). Members of all classes receive THE CONDOR.

**Requests for information concerning membership:** to Charles T. Collins, Treasurer, address above.

**Payment for dues, changes of address, queries about existing membership and subscription rates:** to Ornithological Societies of North America (O.S.N.A.), P.O. Box 21618, Columbus, OH 43221.

## PUBLICATIONS

THE CONDOR (ISSN 0010-5422) is a quarterly journal devoted to the biology of wild species of birds. It publishes research reports and short articles containing new information, as well as occasional review articles. Known office of publication: O.S.N.A., Department of Zoology, 1735 Neil Avenue, Ohio State University, Columbus, OH 43210. Second class postage paid at Columbus, OH 43221, U.S.A. and additional mailing offices.

**Manuscripts and announcements:** to Martin L. Morton, Dept. of Biology, Occidental College, Los Angeles, CA 90041.

**Books for review:** to Marcy F. Lawton, Dept. of Biological Sciences, University of Alabama in Huntsville, Huntsville, AL 35899.

**Queries about advertising:** to Advertising Manager, The Condor, Department of Biology, Occidental College, Los Angeles, CA 90041.

**Subscription orders and queries about missing issues for subscriptions:** to O.S.N.A., address above.

**Purchase of back issues:** to James R. Northern, Assistant Treasurer, address above.

STUDIES IN AVIAN BIOLOGY, as successor to PACIFIC COAST AVIFAUNA, is a series of works too long for the journal, published at irregular intervals.

**Manuscripts:** to Frank A. Pitelka, Editor, address above.

**Purchase of issues:** to James R. Northern, Assistant Treasurer, address above.

THE CONDOR (ISSN 0010-5422) is published quarterly for \$18.00 per year for regular members, \$12.00 for student and emeritus members, \$20.00 for families, and \$25.00 for sustaining members by the Cooper Ornithological Society, O.S.N.A., Department of Zoology, 1735 Neil Avenue, Ohio State University, Columbus, OH 43210. Second class postage paid at Columbus, OH and additional mailing offices. **POSTMASTER:** Send address changes to The Condor, O.S.N.A., P.O. Box 21618, Columbus, OH 43221.

Printed quarterly at Lawrence, Kansas, U.S.A. by Allen Press, Inc.

© The Cooper Ornithological Society 1987.