



# THE CONDOR

A JOURNAL OF AVIAN BIOLOGY

Volume 99

August 1997

Number 3

## CONTENTS

- The Influence of Habitat, Prey Abundance, Sex, and Breeding Success on the Ranging Behavior of Prairie Falcons  
JOHN M. MARZLUFF, BRYAN A. KIMSEY, LINDA S. SCHUECK, MARY E. McFADZEN, MARK S. VEKASY AND JAMES C. BEDNARZ . . . . . 567
- Hybridization and Reproductive Performance in Gulls of the *Larus glaucescens-occidentalis* Complex  
DOUGLAS A. BELL . . . . . 585
- Influence of Alternate Host Densities on Brown-headed Cowbird Parasitism Rates in Black-capped Vireos  
DAVID R. BARBER AND THOMAS E. MARTIN . . . . . 595
- Brood Parasitism, Nest Predation, and Season-Long Reproductive Success of a Tropical Island Endemic  
BETHANY L. WOODWORTH . . . . . 605
- Nest Predation and Cowbird Parasitism Create a Demographic Sink in Wetland-Breeding Song Sparrows  
CHRISTOPHER M. ROGERS, MARY J. TAITT, JAMES N. M. SMITH AND GWEN JONGEJAN . . . . . 622
- Characteristics and Competition for Nest Cavities in Burrowing Procellariiformes  
JAIME A. RAMOS, LUIS R. MONTEIRO, ENCARNACION SOLA AND ZITA MONIZ . . . . . 634
- Intraspecific Competition Influences Food Return-Predation Risk Trade-Off by White-crowned Sparrows  
ROBERT SLOTOW AND ELLEN PAXINOS . . . . . 642
- The Response of Male and Female Song Sparrows to Geographic Variation in Song  
WILLIAM A. SEARCY, STEPHEN NOWICKI AND MELISSA HUGHES . . . . . 651
- The Distribution of Neotropical Migrant Birds Wintering in the El Cielo Biosphere Reserve, Tamaulipas, Mexico  
WENDY K. GRAM AND JOHN FAABORG . . . . . 658

(Continued on outside back cover)

*Published Quarterly by the Cooper Ornithological Society*

# COOPER ORNITHOLOGICAL SOCIETY

- President:** J. MICHAEL SCOTT, IDCWRU, Department of Fish and Wildlife, University of Idaho, Moscow, ID 83844-1141, 208-885-6960, 208-885-9080 fax, mscott@uidaho.edu
- President-elect:** GLENN E. WALSBERG, Department of Zoology, Arizona State University, Tempe, AZ 85287-1501, 602-965-3543, 602-965-3209 fax, atgew@asuvm.inre.asu.edu
- Secretary:** EILEEN M. KIRSCH, Biological Resources Division of the U.S. Geological Survey, PO Box 818, La Crosse, WI 54602, 608-783-6451, 608-783-6066 fax, kirsche@mail.fws.gov
- Assistant Secretary:** PETER STETTENHEIM, Meriden Road, #64-255, Lebanon, NH 03766, 603-448-4655.
- Treasurer:** ERICK G. CAMPBELL, Bureau of Land Management, 2114 NE 90th Ave., Vancouver, WA 98664, 503-952-6382, 503-952-6021 fax, ecampbel@sc0126wp.sc.blm.gov
- Assistant Treasurer:** LARRY MANGAN, Bureau of Land Management, 1300 Airport Lane, North Bend, OR 97459, 541-756-0100, 541-756-9303 fax, lmangan@or.blm.gov
- Editor of THE CONDOR:** WALTER D. KOENIG, Hastings Natural History Reservation, 38601 E. Carmel Valley Road, Carmel Valley, CA 93924, 408-659-5981, 408-659-3649 fax, wicker@uclink.berkeley.edu
- Managing Editor of THE CONDOR:** DAVID J. GUBERNICK, Condor Editorial Office, Hastings Natural History Reservation, 38601 E. Carmel Valley Road, Carmel Valley, CA 93924, 408-659-1369, condor@socrates.berkeley.edu
- Editor of STUDIES IN AVIAN BIOLOGY:** JOHN ROTENBERRY, Department of Biology, University of California, Riverside, CA 92521, 909-787-3953, 909-787-4286 fax, rote@ucr.ac1.ucr.edu

## BOARD OF DIRECTORS

1995-1998	1996-1999	1997-2000
SALLIE HEJL	BONNIE S. BOWEN	BETTE A. LOISELLE
BARABARA E. KUS	CHARLES T. COLLINS	ROBERT E. RICKLEFS
THOMAS E. MARTIN	DAVID S. DOBKIN	DIANA F. TOMBACK

**STANDING COMMITTEES.** BYLAWS: B. S. Bowen,\* T. Edwards, S. Russell, K. Sullivan. CONSERVATION-RESOLUTIONS: M. G. Raphael,\* C. Beardmore, M. Bechard, E. Kirsch, T. Root, M. Sogge. FINANCE: E. A. Schreiber,\* T. Bucher, E. Campbell, J. W. Fitzpatrick. HISTORY: L. F. Kiff,\* H. Cogswell, R. J. Quigley. HARRY R. PAINTON AWARD: G. E. Walsberg, B. C. Livezey, M. G. Raphael. HONORARY MEMBERS: M. L. Morton,\* G. E. Walsberg. MEMBERSHIP: T. E. Martin,\* T. Balgooyen, L. Hall, C. R. Preston, R. O. Russell. MEWALDT-KING AWARD: J. R. Faaborg,\* T. C. Grubb Jr., B. L. Woodworth. MILLER AWARD: G. W. Woolfenden,\* W. R. Dawson, V. Nohan Jr., D. F. Tomback, J. Verner. PUBLICATIONS: F. Knopf,\* F. Chavez-Ramirez, K. J. Gutzwiller, W. D. Koenig, B. A. Loiselle, J. Rotenberry.

**AD HOC COMMITTEES.** NOMINATING FOR DIRECTORS: R. F. Johnston, F. E. Lohrer, S. A. Mahoney, G. E. Walsberg. STUDENT PARTICIPATION: T. L. George,\* R. Dixon, S. Hejl, S. Jones, R. R. Koford, K. Sullivan, B. Wolf. MEMBERSHIP IN DEVELOPING COUNTRIES: D. M. Finch.\* 1998 ANNUAL MEETING: K. G. Smith.\* SCIENTIFIC PROGRAM: J. D. Brawn,\* J. R. Herkert, D. K. Niven, S. K. Robinson. HOME PAGE: K. G. Smith.\* (\*Chair or Co-chair.)

**REPRESENTATIVES.** ORNITHOLOGICAL COUNCIL: S. L. L. Gaunt.

## MEMBERSHIP AND SUBSCRIPTIONS

Any person interested in avian biology may become a member of the Cooper Ornithological Society. All members receive *THE CONDOR*. North American members also receive the bimonthly *ORNITHOLOGICAL NEWSLETTER*. Membership rates are \$35 per year for regular members in the United States, Canada, Australia, Belgium, Denmark, Finland, France, Germany, Iceland, Israel, Japan, Luxembourg, The Netherlands, New Zealand, Norway, Sweden, and the United Kingdom. Regular membership rates are \$20 per year for members in all other countries. Rates are \$20 for student and emeritus members, and \$40 for families. Institutional subscriptions are \$90. Send check or money order in U.S. funds with complete name and address to: Ornithological Societies of North America (O.S.N.A.), P.O. Box 1897, Lawrence, KS 66044-8897. If applying for student rates, include a brief, signed statement from an academic advisor certifying student status.

## PUBLICATIONS

*THE CONDOR* (ISSN 0010-5422) is a quarterly journal devoted to the biology of wild species of birds. It publishes research reports and occasional review articles. *Contributors should follow instructions on the preparation and submission of articles given in the February issue.*

**Manuscripts, announcements, and advertising:** to Walter D. Koenig, address above.

**Books for review:** to Kimberly G. Smith, Department of Biological Sciences, University of Arkansas, Fayetteville, AR 72701.

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

**Purchases of back issues:** to Erick G. Campbell, Treasurer, address above.

*STUDIES IN AVIAN BIOLOGY*, a series of works too long for the journal, is published at irregular intervals.

**Manuscripts:** to John Rotenberry, Editor, address above.

**Purchase of issues:** Erick G. Campbell, Treasurer, address above.

POSTMASTER: Send address changes to *THE CONDOR*, O.S.N.A., P.O. Box 1897, Lawrence, KS 66044-8897. Periodicals postage paid at Lawrence, KS 66044, U.S.A., and additional mailing offices. Printed quarterly at Lawrence, Kansas, U.S.A. by Allen Press, Inc. and is published by the Cooper Ornithological Society, 810 East 10th Street, Lawrence, Kansas 66044-8897. © The Cooper Ornithological Society 1997.