



THE CONDOR

A JOURNAL OF AVIAN BIOLOGY

Volume 97

February 1995

Number 1

CONTENTS

- Unusual Patterns of Incomplete Primary Molt in Laysan and Black-footed Albatrosses
NANCY E. LANGSTON and SIEVERT ROHWER 1
- Homing Experiments with Starlings Deprived of the Sense of Smell
H. G. WALLRAFF, J. KIEPENHEUER, M. F. NEUMANN and A. STRENG 20
- Characteristics, Use and Possible Functions of the Perch Songs and Chatter Calls of Male Common Yellowthroats
GARY RITCHISON 27
- Assessing Vocal Variety in the Winter Wren, a Bird with a Complex Repertoire
BEATRICE VAN HORNE 39
- A Test of Whether Economy or Nutrition Determines Fecal Sac Ingestion in Nesting Corvids
KEVIN J. MCGOWAN 50
- Grit Use by House Sparrows: Effects of Diet and Grit Size
JAMES P. GIONFRIDDO and LOUIS B. BEST 57
- Habitat-Related Factors Affecting the Distribution of Nonbreeding American Avocets in Coastal South Carolina
RUTH BOETTCHER, SUSAN M. HAIG and WILLIAM C. BRIDGES, JR. 68
- Genetic Analyses of Wild Populations of Hawaiian Geese Using DNA Fingerprinting
ELIZABETH H. RAVE 82
- Black Brant Winter and Spring-Staging Use at Two Washington Coastal Areas in Relation to Eelgrass Abundance
ULRICH W. WILSON and JAMES B. ATKINSON 91

(Continued on outside back cover)

Published Quarterly by the Cooper Ornithological Society

COOPER ORNITHOLOGICAL SOCIETY

President: LLOYD F. KIFF, The Peregrine Fund, 5666 West Flying Hawk Lane, Boise, ID 83709. FAX: 208/362-2376.

President-elect: SHEILA A. MAHONEY, Department of Biological Sciences, Florida Atlantic University, Boca Raton, FL 33431.

Secretary: TERRELL D. RICH, Bureau of Land Management, 3380 American Terrace, Boise, ID 83706.

Assistant Secretary: PETER STETTENHEIM, Meriden Road, #64-255, Lebanon, NH 03766.

Treasurer: DONALD R. POWERS, Department of Biology, George Fox College, Newberg, OR 97132.

Assistant Treasurer: WALTER WEHTJE, Western Foundation of Vertebrate Zoology, 439 Calle San Pablo, Camarillo, CA 93010. FAX: 805/388-8663.

Editor of THE CONDOR: GLENN E. WALSBERG, Department of Zoology, Arizona State University, Tempe, AZ 85287-1501. FAX: 602/965-3209.

Editor of STUDIES IN AVIAN BIOLOGY: JOHN ROTENBERRY, Department of Biology, University of California, Riverside, CA 92521.

BOARD OF DIRECTORS

1992-1995	1993-1996	1994-1997
DEBORAH M. FINCH	THOMAS C. EDWARDS, JR.	STEPHEN M. RUSSELL
WALTER D. KOENIG	RICHARD F. JOHNSTON	KIMBERLY A. SULLIVAN
ELIZABETH A. SCHREIBER	KIMBERLY G. SMITH	WESLEY W. WEATHERS

STANDING COMMITTEES. BYLAWS: T. C. Edwards, Jr.,* D. M. Bird, W. M. Block. CONSERVATION-RESOLUTIONS: M. G. Raphael.* FINANCE: E. A. Schreiber,* J. L. Cracraft, J. W. Fitzpatrick, M. L. Morrison, D. R. Powers, C. J. Ralph. HISTORY: H. L. Cogswell,* B. B. DeWolfe, R. J. Quigley. HONORARY MEMBERS: E. C. Collias,* N. E. Collias,* D. M. Power. MEMBERSHIP: L. A. Brennan,* T. Balgooyen, L. Hall, C. R. Preston, R. O. Russell. PUBLICATIONS: C. Vleck,* A. Dufty, J. T. Rotenberry, G. E. Walsberg, W. Wehtje. MEWALDT-KING AWARD: D. Tomback,* C. Bock, R. L. Hutto. MILLER AWARD: L. F. Baptista,* C. Carey, S. I. Rothstein. PAINTON AWARD: R. T. Holmes,* M. L. Morton, G. E. Woolfenden.

AD HOC COMMITTEES. 1995 COS/CIPAMEX MEETING: J. Guzman,* R. Rodríguez,* P. Escalante (Scientific Program), D. W. Anderson (COS Representative). NOMINATING FOR DIRECTORS: E. A. Schreiber,* F. Lohrer. STUDENT PARTICIPATION: S. Hejl,* R. Dixon, L. George, S. Jones, T. Scott, K. Sullivan, B. Wolf. MEMBERSHIP IN DEVELOPING COUNTRIES: D. M. Finch.* (*Chair or Co-chair.)

REPRESENTATIVES. AAAS: J. R. Phillips. ICBP: H. L. Cogswell. 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 \$30 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 \$15 for student and emeritus members, and \$35 for families. Institutional subscriptions are \$60. 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 Condor 97:295-296 (February 1995).*

Manuscripts, announcements, and advertising: to Glenn E. Walsberg, Editor, address above.

Books for review: to Christopher W. Thompson, Book Review Editor, The Burke Museum, DB-10, University of Washington, Seattle, WA 98195.

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

Purchases of back issues: to Walter Wehtje, Assistant 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: Walter Wehtje, Assistant Treasurer, address above.

POSTMASTER: Send address changes to *THE CONDOR*, O.S.N.A., P.O. Box 1897, Lawrence, KS 66044-8897. Second-class 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. © The Cooper Ornithological Society 1995.