

# The Auk

*A Quarterly Journal  
of Ornithology*

Vol. 110 No. 4 October 1993

(ISSN 0004-8038)



## CONTENTS

INHERITANCE OF EGG-COLOR POLYMORPHISM IN THE VILLAGE WEAVER ( <i>PLOCEUS CUCULLATUS</i> ). Elsie C. Collias .....	683
TIME OF BREEDING IN RELATION TO FOOD AVAILABILITY OF FEMALE GREAT BLUE HERONS ( <i>ARDEA HERODIAS</i> ). Robert W. Butler .....	693
STRUCTURE, SEQUENCE AND EVOLUTION OF SONG ELEMENTS IN WILD AUSTRALIAN ZEBRA FINCHES. Richard Zann .....	702
VARIATION IN SONG STRUCTURE WITHIN AND AMONG POPULATIONS OF AUSTRALIAN ZEBRA FINCHES. Richard Zann .....	716
PREY SELECTION BY URBAN-BREEDING MERLINS. Navjot S. Sodhi and Lynn W. Oliphant .....	727
COMMUNICATIVE BEHAVIOR IN BREEDING OSPREYS ( <i>PANDION HALIAETUS</i> ): DESCRIPTION AND RELATIONSHIP OF SIGNALS TO LIFE HISTORY. Vincent Bretagnolle and Jean-Claude Thibault .....	736
OPTIMAL ALLOCATION OF POINT-COUNT SAMPLING EFFORT. Richard J. Barker, John R. Sauer, and William A. Link .....	752
HABITAT FRAGMENTATION AND PAIRING SUCCESS IN THE OVENBIRD ( <i>SEIURUS AUROCAPILLUS</i> ). Marc-André Villard, Paul R. Martin, and Christopher G. Drummond .....	759
NEST-SITE CHARACTERISTICS AND NEST PREDATION IN HARRIS' SPARROWS AND WHITE-CROWNED SPARROWS IN THE NORTHWEST TERRITORIES, CANADA. Christopher J. Norment .....	769
SENSORY CONTROL OF CLUTCH SIZE IN THE ZEBRA FINCH ( <i>TAENIOPYGIA GUTTATA</i> ). Sacha Haywood .....	778
SEASONAL CHANGES IN BODY MASS AND USE OF TORPOR IN A MIGRATORY HUMMINGBIRD. Sara Hiebert .....	787
INTERGENERIC PHYLOGENETIC RELATIONSHIPS OF SWALLOWS ESTIMATED BY DNA-DNA HYBRIDIZATION. Frederick H. Sheldon and David W. Winkler .....	798
MITOCHONDRIAL-DNA VARIATION AND EVOLUTIONARY RELATIONSHIPS IN THE AMAKIHI COMPLEX. Cheryl L. Tarr and Robert C. Fleischer .....	825
MORPHOMETRIC VARIABILITY IN REDPOLLS FROM CHURCHILL, MANITOBA. Gilles Seutin, Peter T. Boag, and Laurene M. Ratcliffe .....	832

(Continued on outside back cover)

PUBLISHED BY  
THE AMERICAN ORNITHOLOGISTS' UNION  
Washington, D.C.

# The American Ornithologists' Union



## THE COUNCIL FOR 1993-94

### Officers and Editors

*President:* BRINA KESSEL, University of Alaska Museum, P.O. Box 80211, College, Fairbanks, Alaska 99708.

*President-Elect:* RICHARD C. BANKS, U.S. Fish & Wildlife Service, National Museum of Natural History, Washington, D.C. 20560.

*Vice President:* LEWIS W. ORING, Ecology, Evolution and Conservation Biology/186, 1000 Valley Road, University of Nevada, Reno, Nevada 89512.

*Secretary:* MARY VICTORIA McDONALD, Department of Biology, University of Central Arkansas, Conway, Arkansas 72035.

*Treasurer:* FREDERICK H. SHELDON, Museum of Natural Science, Foster Hall 119, Louisiana State University, Baton Rouge, Louisiana 70803.

*The Auk:* GARY D. SCHNELL, Department of Zoology, Sutton Hall, 625 Elm Avenue, University of Oklahoma, Norman, Oklahoma 73019.

*Ornithological Monographs:* JOHN M. HAGAN III, P.O. Box 1770, Manomet Bird Observatory, Manomet, Massachusetts 02345.

### Elective Councilors and Past Presidents

1994: Keith L. Bildstein, John W. Fitzpatrick, Mercedes S. Foster. 1995: Sidney A. Gauthreaux, Jr., Jared Verner, Robert M. Zink. 1996: Marion A. Jenkinson, Scott M. Lanyon, Terry Root.

*Past Presidents:* Ernst Mayr (1957-59), Dean Amadon (1964-66), Harold F. Mayfield (1966-68), John W. Aldrich (1968-70), Robert W. Storer (1970-72), Joseph J. Hickey (1972-73), John T. Emlen (1975-76), Wesley F. Lanyon (1976-78), Harrison B. Tordoff (1978-80), Thomas R. Howell (1982-84), Frances C. James (1984-86), Charles G. Sibley (1986-88), Glen E. Woolfenden (1988-90), Burt L. Monroe, Jr. (1990-92).

## Membership, Subscription, and Correspondence



Persons interested in birds are invited to join the American Ornithologists' Union. Dues are \$35 per year; student memberships are \$18. Membership is \$18 for persons in all countries *except* the United States, Canada, Israel, Japan, Australia, New Zealand, and the following Western European countries: Iceland, Norway, Sweden, Finland, Denmark, Germany, The Netherlands, Belgium, Luxembourg, France, the United Kingdom, Ireland, Switzerland, Austria, Italy, Spain, and Portugal. All members receive the *Auk* and North American members receive a bimonthly *Ornithological Newsletter*. Subscription price to institutions is \$60. A Life Membership is \$1,050, paid in one sum or four annual installments of \$262.50. Gifts of any amount for the Endowment Fund are welcome and should be sent to the Treasurer. The following major donation categories are recognized: Sponsor (\$1,000), Patron (\$3,000), Benefactor (\$10,000), and Guarantor (\$25,000). The names of Sponsors, Patrons, Benefactors, and Guarantors are inscribed in perpetuity in the AOU records. Gifts to the AOU are tax deductible to the extent permitted by law.

Send requests for information concerning membership, advertising, and back issues to the Treasurer. Information about, or orders for, *Ornithological Monographs* and other special publications should be sent to: Max C. Thompson, Assistant to the AOU Treasurer, Department of Biology, Southwestern College, 100 College St., Winfield, Kansas 67156. Communications also may be routed through the AOU's permanent address: Division of Ornithology, National Museum of Natural History, Washington, D.C. 20560.

Send change of address, payment of dues, subscription requests, or requests for undelivered issues of the *Auk* to Ornithological Societies of North America (OSNA), P.O. Box 1897, Lawrence, Kansas 66044-8897. The *Auk* (ISSN 0004-8038) is published quarterly (January, April, July, and October) for \$60 per year (to institutions) by the American Ornithologists' Union, 810 East 10th St., Lawrence, Kansas 66044-8897. Second-class postage paid at Lawrence, Kansas. POSTMASTER: Send address changes to *The Auk*, P.O. Box 1897, Lawrence, Kansas 66044-8897. Copyright 1994 by the American Ornithologists' Union. All material in this journal may be copied for the noncommercial purpose of educational or scientific advancement without the need to seek specific permission.