

The Auk

*A Quarterly Journal
of Ornithology*

Vol. 112 No. 1 January 1995

(ISSN 0004-8038)



CONTENTS

- MOLTS AND PLUMAGES OF ORANGE-BREASTED BUNTINGS (*PASSERINA LECLANCHERII*): IMPLICATIONS FOR THEORIES OF DELAYED PLUMAGE MATURATION. *Christopher W. Thompson and Matthias Leu* 1
- STRUCTURE AND FUNCTION OF THE DIGESTIVE TRACT OF THE HOATZIN (*OPISTHOCOMUS HOAZIN*): A FOLIVOROUS BIRD WITH FOREGUT FERMENTATION. *Alejandro Grajal* 20
- SONG DEVELOPMENT BY BLACK-CAPPED CHICKADEES (*PARUS ATRICAPILLUS*) AND CAROLINA CHICKADEES (*P. CAROLINENSIS*). *Donald E. Kroodsma, Daniel J. Albano, Peter W. Houlihan, and Judith A. Wells* 29
- SURVIVAL OF GREAT HORNED OWLS IN RELATION TO THE SNOWSHOE HARE CYCLE. *C. Stuart Houston and Charles M. Francis* 44
- EFFECTS OF GROWTH-RATE VARIATION ON FLEDGING OF RHINOCEROS AUKLETS (*CERORHINCA MONOCERATA*). *Anne Harfenist* 60
- AGE-SPECIFIC COSTS OF FIRST-TIME BREEDING. *Anne Viallefont, Fred Cooke, and Jean-Dominique Lebreton* 67
- NESTING HENDERSON REED-WARBLERS (*ACROCEPHALUS VAUGHANI TAITI*) STUDIED BY DNA FINGERPRINTING: UNRELATED COALITIONS IN A STABLE HABITAT? *M. de L. Brooke and Ian R. Hartley* 77
- CONFIRMATION OF A PORTION OF THE SIBLEY-AHLQUIST "TAPESTRY." *Robert Bleiweiss, John A. W. Kirsch, and Naveed Shafi* 87
- PATTERNS OF OVENBIRD (*SEIURUS AUROCAPILLUS*) PAIRING SUCCESS IN MISSOURI FOREST TRACKS. *Michele A. Van Horn, Robert M. Gentry, and John Faaborg* 98
- IMPORTANCE OF DOMINANCE STATUS AND DISTANCE FROM COVER TO FORAGING WHITE-CROWNED SPARROWS: AN EXPERIMENTAL ANALYSIS. *Robert Slotow and Stephen I. Rothstein* 107
- INTRASPECIFIC AND INTERSPECIFIC VARIATION IN MOLT PATTERNS OF SOME TROPICAL HUMMINGBIRDS. *F. Gary Stiles* 118
- LIGHT PATTERNS AS CUES FOR MATE CHOICE IN THE LEKKING WHITE-THROATED MANAKIN (*CORAPIPO GUTTURALIS*). *Marc Théry and Sandra L. Vehrencamp* 133

(Continued on outside back cover)

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

The American Ornithologists' Union



THE COUNCIL FOR 1994-1995

Officers and Editors

President: RICHARD C. BANKS, National Biological Service, MRC-111, National Museum of Natural History, Washington, D.C. 20560.

President-Elect: NED K. JOHNSON, Museum of Vertebrate Zoology, University of California, Berkeley, California 94720.

Vice President: MERCEDES S. FOSTER, National Biological Service, MRC-111, National Museum of Natural History, Washington, D.C. 20560.

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 Living Past Presidents

1995: Sidney A. Gauthreaux, Jr., Jared Verner, Robert M. Zink. 1996: Scott M. Lanyon, Terry Root. 1997: James A. Kushlan, Martin L. Morton, Glenn E. Walsberg.

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), John T. Emlen (1975-76), Wesley E. 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), Brina Kessel (1992-94).

Membership, Subscription, and Correspondence



Persons interested in birds are invited to join the American Ornithologists' Union. Regular membership is \$42 per year; student memberships are \$20. Membership is \$20 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 \$70. A Life Membership is \$1,260, paid in one sum or four annual installments of \$315. 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 \$70 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 1995 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.