THE WILSON BULLETIN

Editor KEITH L. BILDSTEIN
Department of Biology
Winthrop College

Rock Hill

South Carolina 29733

Associate Editors MICHAEL W. COLLOPY

RICHARD N. CONNER

J. P. MYERS

WILLIAM M. SHIELDS JEFFREY R. WALTERS

Assistant Editors ALBERT E. CONWAY

ELIZABETH HAWFIELD JULIE A. HOVIS

JAMES W. JOHNSTON JOHN B. OLSON DAVID L. RANKIN Review Editor GEORGE A. HALL

Department of Chemistry

P.O. Box 6045

West Virginia University Morgantown, WV 26506

Color Plate Editor

WILLIAM A. LUNK 865 North Wagner

Road Ann Arbor, MI 48103 Index Editor KATHY G. BEAL

Department of Biology Capital University Columbus, OH 43209

SUGGESTIONS TO AUTHORS

See Wilson Bulletin, 97:138, 1985 for more detailed "Information for Authors."

Manuscripts intended for publication in *The Wilson Bulletin* should be submitted in triplicate, neatly typewritten, double-spaced, with at least 3 cm margins, and on one side only of good quality white paper. Do not submit xerographic copies that are made on slick, heavy paper. Tables should be typed on separate sheets, and should be narrow and deep rather than wide and shallow. Follow the AOU Check-list (Sixth Edition, 1983) insofar as scientific names of U.S., Canadian, Mexican, Central American, and West Indian birds are concerned. Summaries of major papers should be brief but quotable. Where fewer than 5 papers are cited, the citations may be included in the text. All citations in "General Notes" should be included in the text. Follow carefully the style used in this issue in listing the literature cited; otherwise, follow the "CBE Style Manual" (1983, AIBS). Photographs for illustrations should have good contrast and be on gloss paper. Submit prints unmounted and attach to each a brief but adequate legend. Do not write heavily on the backs of photographs. Diagrams and line drawings should be in black ink and their lettering large enough to permit reduction. Original figures or photographs submitted must be smaller than 22 × 28 cm. Alterations in copy after the type has been set must be charged to the author.

NOTICE OF CHANGE OF ADDRESS

If your address changes, notify the Society immediately. Send your complete new address to Ornithological Societies of North America, P.O. Box 21618, Columbus, OH 43221.

The permanent mailing address of the Wilson Ornithological Society is: c/o The Museum of Zoology, The University of Michigan, Ann Arbor, Michigan 48109. Persons having business with any of the officers may address them at their various addresses given on the back of the front cover, and all matters pertaining to the Bulletin should be sent directly to the Editor.

MEMBERSHIP INQUIRIES

Membership inquiries should be sent to Dr. Richard Stiehl, Department of Biology, Southeast Missouri State Univ., Cape Girardeau, Missouri 63701.

CONTENTS

BEHAVIOR AND NESTING BIOLOGY OF THE ST. ANDREW VIREO	
John C. Barlow and Stephen V. Nash	265
DISPLAY AND RELATED BEHAVIOR OF MALE PIN-TAILED MANAKINS Barbara K. Snow and D. W. Snow	273
SPERM RELEASE IN MIGRATING WOOD-WARBLERS (PARULINAE) NESTING AT HIGHER LATITUDES $W.\ B.\ Quay$	283
MOLT MIGRATION OF LARGE CANADA GEESE ON THE WEST COAST OF HUDSON BAY Rolph A. Davis, Rene N. Jones, Charles D. MacInnes, and Allan J. Pakulak	296
AN AERODYNAMIC BASIS FOR SELECTING TRANSMITTER LOADS IN BIRDS $Donald\ F.\ Caccamise\ and\ Robert\ S.\ Hedin$	306
NEST SITE USE BY CAVITY-NESTING BIRDS OF THE CARIBOO PARKLAND, BRITISH COLUMBIA Barbara Peterson and Gilles Gauthier	319
EFFECT OF VOLES ON MATING SYSTEMS IN A CENTRAL WISCONSIN POPULATION OF HARRIERS Frances Hamerstrom, Frederick N. Hamerstrom, and Charles J. Burke	332
Comparative habitat use by Louisiana and Northern waterthrushes $__Robert\ J.\ Craig$	347
GENERAL NOTES	
AN ECOLOGICAL COMPARISON OF THE AVIFAUNAS OF GRENADA AND TOBAGO, WEST INDIES Joseph M. Wunderle, Jr.	356
SEASONAL DISTRIBUTION OF SUBADULT BALD EAGLES IN THREE MINNESOTA HABITATS James D. Fraser, L. D. Frenzel, John E. Mathisen, and Mark E. Shough	365
SKUA PREDATION ON PENGUIN EGGS: THE INFLUENCE OF EGG QUALITY AND LOCATION $M.\ de\ L.\ Brooke$	366
EARLY AUTUMN MOVEMENTS AND PREBASIC MOLT OF SWAINSON'S THRUSHES ${\it Jeffrey~D.~Cherry}$	368
NEST-DEFENSE OF THE FLORIDA SCRUB JAY AND THE PROBLEM OF "INCUBATION" BY MALE PASSERINES	370
NESTLING FEEDING SCHEDULES OF TURQUOISE-BROWED MOTMOTS IN YUCATÁN, MEXICO Mark W. Martin and Robert F. Martin	372
ARRIVAL AND DEPARTURE PATTERNS OF GREAT BLUE HERONS AT A SOUTH DAKOTA COLONY Eileen M. Dowd and Lester D. Flake	374
NOTES ON THE RELATIONSHIPS OF ISLAND AREA AND DISTANCE FROM MAINLAND TO THE PRESENCE OF HERRING GULL COLONIES IN LAKE NIPIGON, ONTARIO Kevin Timoney, Jim Rogers, and Anne Robinson	378
INTERACTIONS BETWEEN HOUSE SPARROWS AND COMMON GROUND-DOVES ON WALKER'S CAY, BAHAMAS	379
COMMENTARY AND OBSERVATIONS ON THE ALLEGED TRANSPORTATION OF EGGS AND YOUNG BY CAPRIMULGIDS	
TEMPERATURE FLUCTUATIONS AND NESTING BEHAVIOR OF ROCK WRENS IN A HIGH-ALTITUDE ENVIRONMENT	
Licia Wolf, Richard M. Lejnieks, Cathy R. Brown, and Joseph Yarchin	385
A SECOND BROOD BY CANADA GEESE	387
A FOUR-EGG CLUTCH OF THE MOUNTAIN PLOVER	
Michael J. Hamas and Walter D. Graul	
TERRITORIAL BEHAVIOR OF AMERICAN CROWSLawrence Kilham	389
THE STATUS OF THE SOOTY STORM-PETREL IN HAWAII Mark J. Rauzon, Craig S. Harrison, and Sheila Conant	390
VOCAL IMITATION IN A CAPTIVE PURPLE MARTIN Eugene S. Morton	392
OBSERVATIONS OF A TUFTED TITMOUSE AND A CATTLE EGRET ASSOCIATING WITH A BLACK BEAR	395
ABNORMAL YELLOW EYE RING ON A TROPICAL KINGBIRD Floyd E. Hayes, William S. Baker, and Kent R. Beaman	395
ORNITHOLOGICAL LITERATURE	397
ADDITIONS TO THE BOOK LIST OF THE JOSSELYN VAN TYNE MEMORIAL LIBRARY	405
ANNOUNCEMENTS331,	411