

# The Journal of Raptor Research

Volume 37 Number 3 September 2003



Published by  
The Raptor Research Foundation, Inc.

THE RAPTOR RESEARCH FOUNDATION, INC.  
(FOUNDED 1966)

OFFICERS

PRESIDENT: BRIAN A. MILLSAP  
VICE-PRESIDENT: DAVID M. BIRD

SECRETARY: JUDITH HENCKEL  
TREASURER: JIM FITZPATRICK

BOARD OF DIRECTORS

NORTH AMERICAN DIRECTOR #1:

JEFF SMITH

NORTH AMERICAN DIRECTOR #2:

LAURIE J. GOODRICH

NORTH AMERICAN DIRECTOR #3:

TED SWEM

INTERNATIONAL DIRECTOR #1:

BEATRIZ ARROYO

INTERNATIONAL DIRECTOR #2:

RICARDO RODRÍGUEZ-ESTRELLA

INTERNATIONAL DIRECTOR #3:

STEVE REDPATH

DIRECTOR AT LARGE #1: JEMIMA PARRY-JONES

DIRECTOR AT LARGE #2: PETRA BOHALL WOOD

DIRECTOR AT LARGE #3: MICHAEL W. COLLOPY

DIRECTOR AT LARGE #4: CAROL MCINTYRE

DIRECTOR AT LARGE #5: ROBERT N. ROSENFELD

DIRECTOR AT LARGE #6: DANIEL E. VARLAND

\*\*\*\*\*

EDITORIAL STAFF

EDITOR: JAMES C. BEDNARZ, Department of Biological Sciences, P.O. Box 599, Arkansas State University, State University, AR 72467 U.S.A.

ASSISTANT EDITOR: REBECCA S. MAUL

ASSOCIATE EDITORS

JAMES R. BELTHOFF

CLINT W. BOAL

FABRIZIO SERGIO

JOAN L. MORRISON

JUAN JOSÉ NEGRO

MARCO RESTANI

IAN G. WARKENTIN

BOOK REVIEW EDITOR: JEFFREY S. MARKS, Montana Cooperative Research Unit, University of Montana, Missoula, MT 59812 U.S.A.

SPANISH EDITOR: CÉSAR MÁRQUEZ REYES, Instituto Humboldt, Colombia, AA. 094766, Bogotá 8, Colombia  
EDITORIAL ASSISTANTS: JAIMIE VARNER, JOAN CLARK

*The Journal of Raptor Research* is distributed quarterly to all current members. Original manuscripts dealing with the biology and conservation of diurnal and nocturnal birds of prey are welcomed from throughout the world, but must be written in English. Submissions can be in the form of research articles, short communications, letters to the editor, and book reviews. Contributors should submit a typewritten original and three copies to the Editor. All submissions must be typewritten and double-spaced on one side of 216 × 278 mm (8½ × 11 in.) or standard international, white, bond paper, with 25 mm (1 in.) margins. The cover page should contain a title, the author's full name(s) and address(es). Name and address should be centered on the cover page. If the current address is different, indicate this via a footnote. A short version of the title, not exceeding 35 characters, should be provided for a running head. An abstract of about 250 words should accompany all research articles on a separate page.

Tables, one to a page, should be double-spaced throughout and be assigned consecutive Arabic numerals. Collect all figure legends on a separate page. Each illustration should be centered on a single page and be no smaller than final size and no larger than twice final size. The name of the author(s) and figure number, assigned consecutively using Arabic numerals, should be pencilled on the back of each figure.

Names for birds should follow the A.O.U. Checklist of North American Birds (7th ed., 1998) or another authoritative source for other regions. Subspecific identification should be cited only when pertinent to the material presented. Metric units should be used for all measurements. Use the 24-hour clock (e.g., 0830 H and 2030 H) and "continental" dating (e.g., 1 January 1999).

Refer to a recent issue of the journal for details in format. Explicit instructions and publication policy are outlined in "Information for contributors," *J. Raptor Res.*, Vol. 36(4), and are available from the editor. Submit manuscripts to J. Bednarz at the address listed above.

**COVER:** Red-shouldered Hawk (*Buteo lineatus*). Painting by James Coe. Visit [www.jamescoe.com](http://www.jamescoe.com) to view more of his artwork.