



## Front Matter

Source: The Condor, 110(4)

Published By: American Ornithological Society

URL: <https://doi.org/10.1525/cond.2008.110.4.fm>

---

BioOne Complete ([complete.BioOne.org](http://complete.BioOne.org)) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at [www.bioone.org/terms-of-use](http://www.bioone.org/terms-of-use).

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

---

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

# THE COOPER ORNITHOLOGICAL SOCIETY

## OFFICERS

THOMAS E. MARTIN  
PRESIDENT

MERCEDES S. FOSTER  
PRESIDENT-ELECT

KATIE M. DUGGER  
TREASURER

ABBY POWELL  
SECRETARY

BETH A. HAHN  
ASSISTANT SECRETARY

KIMBERLY A. SULLIVAN  
ASSISTANT TREASURER

DAVID S. DOBKIN  
EDITOR OF *THE CONDOR*

CARL D. MARTI  
EDITOR OF *STUDIES IN AVIAN BIOLOGY*

**Membership:** Any person interested in avian biology may become a member of the Cooper Ornithological Society. Regular membership rates (which include both online and print versions of *The Condor*) are US\$80 per year in select countries (United States, Canada, Western Europe, Iceland, Australia, New Zealand, Israel, Japan, Republic of Korea, and Taiwan), \$25 per year in all other countries, \$55 for student members, \$30 for emeritus members, \$100 for families. Individuals may opt to receive *only* the online version for a reduced membership rate of \$40 per year, \$25 for student members. If applying for student rates, include a brief, signed statement from an academic advisor certifying student status. North American members also receive the bimonthly *Ornithological Newsletter*. All correspondence regarding membership, including dues payments and changes of address, should go to Ornithological Societies of North America (OSNA), 5400 Bosque Blvd., Suite 680, Waco, TX 76710, or [business@osnabirds.org](mailto:business@osnabirds.org)

**Publications:** *The Condor* is a quarterly journal devoted to the biology of wild species of birds. It publishes research reports, review articles, and commentary. Contributors should refer to the Instructions for Authors published in the February issue and on the Cooper Ornithological Society website, [www.cooper.org](http://www.cooper.org). *The Condor* (ISSN 0010-5422, e-ISSN 1938-5129) is published quarterly (February, May, August, November) by the University of California Press, Journals and Digital Publishing, for the Cooper Ornithological Society. Periodicals postage paid at Berkeley, CA, and additional mailing offices. POSTMASTER: Send address changes to *The Condor*, University of California Press, Journals and Digital Publishing, 2000 Center Street, Suite 303, Berkeley, CA 94704-1223.

Manuscripts: to David S. Dobkin, Editor, *The Condor*, High Desert Ecological Research Institute, 15 SW Colorado Avenue, Suite 300, Bend, OR 97702, USA.

Books for review: to David L. Swanson, Biology Department, University of South Dakota, Vermillion, SD 57069, e-mail: [dlswanso@usd.edu](mailto:dlswanso@usd.edu)

*Studies in Avian Biology*, a series of works too long for the journal, is published at irregular intervals. Manuscripts: to Carl D. Marti, Editor, *Studies in Avian Biology*, 1310 East Jefferson Street, Boise, ID 83712, e-mail: [sab@spro.net](mailto:sab@spro.net)

**Subscriptions:** Institutional subscriptions are \$220 (print and electronic) and \$198 (electronic only). \$20 postage added to all subscriptions shipped outside North America. Canadian subscribers, add 5% GST. Single copies are \$57 for institutions and non-member individuals. \$5 postage added to single copies shipped outside North America. Go to <http://www.ucpressjournals.com> for single issue and subscription orders, back issue orders, claims information, and advertising inquiries for the journal.

**Copying and permissions notice:** Authorization to copy article content beyond fair use (as specified in Sections 107 and 108 of the U.S. Copyright Law) for internal or personal use, or the internal or personal use of specific clients, is granted by the Regents of the University of California on behalf of the Cooper Ornithological Society for libraries and other users, provided that they are registered with and pay the specified fee through the Copyright Clearance Center (CCC), [www.copyright.com](http://www.copyright.com). To reach the CCC's Customer Service Department, dial 978-750-8400 or write to 222 Rosewood Drive, Danvers, MA 01923. For permission to distribute electronically, republish, resell, or repurpose material from 2008 forward, and to purchase article offprints, contact CCC's Rightslink service, available on Caliber at <http://caliber.ucpress.net>. Submit all other permissions and licensing inquiries through the University of California Press's Rights and Permissions website: [www.ucpressjournals.com/reprintInfo.asp](http://www.ucpressjournals.com/reprintInfo.asp)

**Abstracting and indexing:** Articles appearing in *The Condor* are abstracted and indexed in many select databases, including: Biological Abstracts, BioOne Abstracts and Indexes, BIOSIS Previews, Current Contents: Agriculture Biology & Environmental Sciences, Ecology Abstracts (Bethesda), Science Citation Index, Zoological Record. For complete abstracting and indexing information, please visit <http://www.ucpressjournals.com>

Printed by Allen Press.

© 2008 Cooper Ornithological Society. All rights reserved. No part of this journal may be reprinted or reproduced in any form or by any means without prior permission from the publisher except as noted above.



# THE CONDOR

AN INTERNATIONAL JOURNAL  
OF AVIAN BIOLOGY

VOLUME 110

NUMBER 4

NOVEMBER 2008

A PUBLICATION OF THE COOPER ORNITHOLOGICAL SOCIETY

## EDITORIAL STAFF

DAVID S. DOBKIN  
*Editor*

ALEXA L. BONTRAGER  
THALIA SACHTLEBEN  
*Managing Editors*

NICHOLE C. PATRICK  
*Editorial Assistant*

DAVID L. SWANSON  
*Book Review Editor*

LUCIO R. MALIZIA  
CINTIA CORNELIUS  
DANIEL CADENA  
*Spanish Abstract Translations*

## EDITORIAL OFFICE

High Desert Ecological Research Institute  
15 S.W. Colorado Ave., Suite 300 Bend, OR 97702 USA <[condor@hderi.org](mailto:condor@hderi.org)>

*Publishing new research from the full spectrum of ornithology since 1899.*

THE CONDOR ONLINE: Access the Cooper Ornithological Society's website, <[www.cooper.org](http://www.cooper.org)>, to find Tables of Contents and Abstracts for issues from February 2001 through the forthcoming issue, in English and Spanish. The COS website also provides prospective authors with current instructions for authors.

COVER: Remarkably similar plumage patterns often appear in distantly related taxa. Riegner (p. 599) examined the recurrence of plumage-pattern elements across class Aves and their association with morphological features, such as body size and degree of anterior emphasis. He found that streaks and countershading are common in small taxa, but bold patterning, elements of reverse countershading, and exaggerated anterior morphology often appear in relatively large morphotypes, as exemplified in the White-necked Raven (*Corvus albicollis*), among the largest of corvids. Photograph of a White-necked Raven in Giant's Castle Nature Reserve, Drakensberg, South Africa, by Greg Meyer, [greg\\_meyer@csumb.edu](mailto:greg_meyer@csumb.edu)

# THE COOPER ORNITHOLOGICAL SOCIETY

President: Thomas E. Martin, USGS Montana Cooperative Wildlife Research Unit, University of Montana, Missoula, MT 59812, phone: 406-243-5372, fax: 406-243-6064, e-mail: [tom.martin@umontana.edu](mailto:tom.martin@umontana.edu)

President-Elect: Mercedes S. Foster, USGS Patuxent Wildlife Research Unit, National Museum of Natural History, P.O. Box 37012, Washington, DC 20013-7012, phone: 202-633-0778, fax: 202-357-1932, e-mail: [fosterm@si.edu](mailto:fosterm@si.edu)

Treasurer: Katie M. Dugger, Department of Fisheries and Wildlife, Oregon State University, 104 Nash Hall, Corvallis, OR 97331, phone: 541-737-2473, fax: 541-737-3590, e-mail: [katie.dugger@oregonstate.edu](mailto:katie.dugger@oregonstate.edu)

Assistant Treasurer: Kimberly A. Sullivan, Department of Biology, Utah State University, Logan, UT 84322-5305, phone: 435-797-3713, fax: 435-797-1575, e-mail: [yejunco@cc.usu.edu](mailto:yejunco@cc.usu.edu)

Secretary: Abby Powell, Alaska Cooperative Fish and Wildlife Research Unit, University of Alaska, Fairbanks, Fairbanks, AK 99775-7020, phone: 907-474-5505, fax: 907-474-7872, e-mail: [ffanp@uaf.edu](mailto:ffanp@uaf.edu)

Assistant Secretary: Beth Hahn, USDA Forest Service, 619 Howell St., Missoula, MT 59802, phone: 405-546-3139, e-mail: [bhahn@fs.fed.us](mailto:bhahn@fs.fed.us)

Editor of *The Condor*: David S. Dobkin, High Desert Ecological Research Institute, 15 S.W. Colorado Ave., Suite 300, Bend OR 97702, phone: 541-382-1117, e-mail: [dobkin@hderi.org](mailto:dobkin@hderi.org)

Managing Editor of *The Condor*: Alexa L. Bontrager, High Desert Ecological Research Institute, 15 S.W. Colorado Ave., Suite 300, Bend, OR 97702, phone: 541-382-1117, e-mail: [condor@hderi.org](mailto:condor@hderi.org)

Editor of *Studies in Avian Biology*: Carl D. Marti, 1310 East Jefferson Street, Boise, ID 83712, phone: 208-426-8996, fax: 208-426-3117, e-mail: [sab@spro.net](mailto:sab@spro.net)

## BOARD OF DIRECTORS

### 2006–2009

ALEXANDER BADYAEV  
MARILYN RAMENOFSKY  
KATIE M. DUGGER

### 2007–2010

JANIS DICKINSON  
MATTHIAS LEU  
MARK REYNOLDS

### 2008–2011

STEPHEN BEISSINGER  
PATRICIA KENNEDY  
FRANK MOORE

## COMMITTEE CHAIRS

PUBLICATIONS: LINDA A. WHITTINGHAM	PAINTON AWARD: MATTHIAS LEU
BYLAWS: JANIS DICKINSON	MILLER AWARD: BONNIE BOWEN
FINANCE: PETER STACEY	KATMA AWARD: ALEX BADYAEV
HISTORY: LLOYD F. KIFF	MEWALDT-KING AWARD: PAUL NOLAN
MEMBERSHIP: MARTIN RAPHAEL	GRINNELL AWARD: WALTER WEHTJE
HONORARY MEMBERSHIP: MARTIN RAPHAEL	PAPER AWARDS: BARBARA E. KUS AND MATTHIAS LEU
CONSERVATION-RESOLUTIONS: T. LUKE GEORGE	WEBSITE COMMITTEE: CARL MARTI AND
STUDENT PARTICIPATION: MATTHIAS LEU AND	TY C. M. HOFFMAN
DANIEL BARTON	STUDENT MEMBERSHIP: SHELDON J. COOPER
NOMINATING FOR DIRECTORS: KATIE M. DUGGER	STUDENT TRAVEL: ROLF KOFORD

2009 ANNUAL MEETING LOCAL COMMITTEE: JOSEPH J. FONTAINE

## REPRESENTATIVES

AAAS: ELLEN PAUL      JOURNAL EXCHANGE: MERCEDES FOSTER  
NORTH AMERICAN BANDING COUNCIL: STEPHEN RUSSELL AND PATRICIA HEGLUND  
ORNITHOLOGICAL COUNCIL: IRENE PEPPERBERG AND JILL DEPPE