

Program for the
Third North American Ornithological Conference
a joint meeting incorporating the

One Hundred and Twentieth Stated Meeting of the
American Ornithologists' Union

72nd Annual Meeting of the
Cooper Ornithological Society

The 2002 Annual Meeting of the
Raptor Research Foundation

The 2002 Symposium of the
**Sección Mexicana del Consejo Internacional
para la Preservación de las Aves (CIPAMEX)**

21st Annual Meeting of the
**Society of Canadian Ornithologists/
Société des Ornithologistes du Canada**

The 2002 Workshop of the
**Society for the Conservation and Study
of Caribbean Birds**

24 - 28 September 2002 in New Orleans, Louisiana

Local Host Institutions
Tulane University
The Audubon Nature Institute

Committee on Local Arrangements

Tom Sherry and Kimberly Smith, Co-Chairs

Art Exhibitions: John O'Neill and Douglas Pratt (Co-chairs), Josie Babin, Anne Bradburn, J. Randal Slocum

Audio-Visual: Jim Ingold (Chair), Josie Babin, Cindy Gullede, Bryan Sigel, Phil Stouffer, Carlos Valderrama

Consultants: Hank Bart, Bonnie Bowen, Bob Cashner, Kai Fujita, Bette Loiselle, Anne Jakob and her staff of UNO Conference Services, Bob Thomas

Field Trips: Jennifer Coulson (Chair), David Muth, Dan Purrington, Amy Smith-Kyle, Peter Yaukey

Fund-Raising: Jim Ingold (Chair), Tom Sherry

Graduate Student Coordination: Donata Roome (Chair)

Listserve Manager: Van Remsen

Logo Design: Michael Wilcox

Publicity: Jennifer Coulson (Chair), Tom Sherry

Resolutions: Ellen Paul

Scientific Program: Phil Stouffer (Chair), Rebecca Holberton, Jim Ingold, Brian Millsap, Frank Moore, Van Remsen, Betty Anne Schreiber, Fred Sheldon, Tom Sherry, Kimberly Smith

Scientific Program Coordinator: Peter Lowther

Social Activities & Entertainment: Tom Sherry, Kimberly Smith, Shannon Tanner

Student Awards: Frank Rohwer (Chair), Maria del Coro Arizmendi, Bob Beason, Rosemarie Gnam, Pete Marra, Greg Robertson, Fred Sheldon, Kimberly Smith, Michael Sorenson, Petra Bohall Wood

Vendors/Exhibitors: Jennifer Barg (Chair), Tom Sherry

Web Master/Designer: Bruce Fleury

Co-Hosts & Sponsors

Audubon Nature Institute, Aquarium of the Americas
Audubon Nature Institute, Zoological Park (Bird Department)
Barataria-Terrebonne National Estuary Program
Cornell University, Laboratory of Ornithology
Gulf Coast Bird Observatory
Louisiana Ornithological Society
Louisiana State University Baton Rouge
Louisiana State University Shreveport
Mobil Oil Corporation (Robert and Nancy Brown Family)
National Wetlands Research Center (Lafayette, LA)
Orleans Audubon Society
Our Lady of Holy Cross College
Southeastern Louisiana University
The Reed Foundation
Tulane University, Office of the President
University of Arkansas
University of Southern Mississippi
U.S. Fish & Wildlife Service, Division of International Conservation
U.S. Fish & Wildlife Service, Southeast Louisiana Refuges
Weyerhaeuser Corporation

Additional Contributors

Anne and Donald Bradburn
Carla Cicero
Coffee Roasters of New Orleans
Family of Walter I. Anderson
Jolee and Mark Zola
Paul Hamel
The McIlhenny Company
Robert and Nancy Brown
Roger Thayer Stone Center for Latin American Studies, Tulane University
Smithsonian Migratory Bird Center
The Hummingbird Society
The Nature Conservancy/Wings of the Americas Program
Tulane-Xavier Center for Bioenvironmental Research
Wild Birds Unlimited

GENERAL INFORMATION

REGISTRATION/INFORMATION DESK

The Conference Registration/Information Desk will be located on the third floor conference center of the Hotel Inter-Continental, opposite the escalators that connect to the Lobby (where Hotel Check-in Desk is located). Conference registration hours are Noon-5:00 PM, Tuesday, 24 Sep; 8:00 AM-5:00 PM, Wednesday-Friday, 25-27 Sep; and 8:00 AM-Noon, Saturday, 28 Sep.

GENERAL ASSISTANCE

For general questions or assistance contact someone at the Conference Registration/Information Desk (ph. 504-258-7113; incoming queries and messages only) or a member of the local committee or volunteer, who will be identifiable by ribbons:

- Local Committee chair—navy blue ribbon
- Local Committee member—light blue ribbon
- Student volunteer—green ribbon

For information about the hotel service and New Orleans (tours, entertainment, childcare, restaurants, etc.) see the Concierge Desk, near the registration desk of the Hotel Inter-Continental Lobby—but also see sections below on food, entertainment, alternative activities, and childcare options.

PARKING

Parking is simplest and safest in the parking garage for the Hotel Inter-Continental (Pan-American Building), just off Camp Street (between Poydras and Commercial). Valet parking fee is \$10.00 for 0-2 hours, \$14.00 for 2-12 hours, and \$25.00 for 12-24 hours. Self-parking in Pan-American Building lot (connecting to Hotel Inter-Continental) overnight \$14.00 (no in-and-out privileges). Limited street parking is available, but primarily outside business hours (metered parking during the day).

Valet parking is \$17.00 per day at La Quinta Inn, and \$17.50 + tax for the day at Hampton Inn.

TRANSPORTATION

Most conference events were planned for easy walking access from the Hotel Inter-Continental (see Downtown New Orleans Map). More distant lodging, restaurants, or events—e.g., uptown—can be reached by convenient public transportation—bus, streetcar, or taxi.

Conference attendees should plan to walk if possible to the Opening Reception at the Aquarium of the Americas (foot of Canal St.), and to the House of Blues social (across Canal St., just inside the French Quarter). However, handicap-accessible shuttle bus service is available for these two events from the Hotel Inter-Continental, both before and afterwards. Shuttle bus service is also available to the AOU Fellows and Guests Dinner at Michaul's Live Cajun and Jazz Music Restaurant on Tuesday evening.

New Orleans' Regional Transit Authority (RTA) provides excellent service on several streetcar and numerous bus lines throughout the city, most of which originate within several blocks of the Hotel Inter-Continental, just off Canal St. (see hotel concierge for details). RTA rates are \$1.25 (\$1.50 with transfer) for single ride, \$4.00 for Daily Pass (purchasable on any bus or streetcar), or \$12.00 for a Three-Day Pass (purchasable at any Visitor Information Booth, e.g. near Aquarium of the Americas).

Don't miss the easy and inexpensive tour of St. Charles Ave. via the world famous St. Charles Street Car line, including the Garden District, Audubon Park, and Tulane and Loyola universities.

FOOD

Information about local restaurants and eateries is enclosed with your registration materials. However, in order to savor some of the best that New Orleans has to offer please take a few minutes to tour Bruce Fleury's "Everything's Hot Down In New Orleans" guide to food and just about everything else in the Big Easy (<http://www.tulane.edu/~bflleury/neworleans/NewOrleans.htm>). Convention Hospitality Services will also operate a booth near the Conference Registration/Information desk, and they can help you with restaurant information and reservations.

Breakfast options include a complimentary (with registration) continental breakfast from 8:00-9:00 AM each morning in the Third Floor Conference Center of the Hotel Inter-Continental. In addition to 24-hour room service for guests, the Hotel Inter-Continental serves breakfast in the Veranda Restaurant from 6:30-11:00 AM, and pastries and such in its Sweet Car bistro (open 7:00 AM-5:00 PM). Coffee and beignets may still be had at Café du Monde, across from Jackson Square, French Quarter.

Lunch spots at the Hotel Inter-Continental include the Veranda Restaurant (featuring internationally recognized chef Willy Coln), the Sweet Car (sandwiches), and Pete's Pub. Fast food is available in all flavors, Monday-Friday (7:00 AM- 2:00 PM) at the Food Court on the Second Level of the Bank One/Hampton Inn Building (across St. Charles Ave. from Hotel Inter-Continental, towards Canal St.). A variety of fast food is also available on Canal Street. While foraging, don't miss seafood Po-Boys (or any other kind, for that matter), a New Orleans specialty. All attendees are responsible for their own lunch.

Plenty of delicious dinnertime food comes gratis with registration: Louisiana hors d'oeuvres at Opening Reception Tuesday, wine & cheese (light hors d'oeuvres) at the Wednesday poster session, cajun buffet dinner at the House of Blues Picnic Thursday, and New Orleans dessert specialties at the Friday poster session.

The local committee hereby denies any responsibility for guests who put on body mass prior to post-conference migration.

PHONE, FAX, AND COPYING

A message board will be set up at the Conference Registration/Information Desk. Voice mail can be left there at 504-258-7113, which will be checked regularly throughout the conference until Saturday noon.

The Hotel Inter-Continental's Business Center provides diverse and excellent services for a fee, including FAX, copying, PC/printer, Internet and e-mail access, cell phone rental, secretarial services, and shipping. Thirty business rooms are also

available with FAX/printer/copier, dataport, oversized desk, ergonomic chair, and halogen lamp.

The nearest Kinko's (copy, computer, and printing services) to the hotel is located on 762 St. Charles Ave. (Julia St.; ph 581-2541).

WHEELCHAIR ACCESSIBILITY

All events at the Hotel Inter-Continental, and all other social events are fully wheelchair accessible. For assistance, contact the Conference Registration/Information Desk (or phone 504-258-7113).

EMERGENCIES

Hotel guests can receive messages via their hotel switchboards. Urgent messages for conference participants can be directed to the Conference Registration/Information desk (504-258-7113) during conference hours. Messages will be relayed to conference organizers and participants as quickly as possible. The Hotel Inter-Continental switchboard number (Hotel Check-in Desk) is 504-525-5566.

SAFETY IN THE CITY

Please exercise common-sense caution in New Orleans, just as in any other big city. A few simple precautions include ditching your badge outside the conference site (why advertise your tourist status?). Avoid the warehouse district adjacent to the Convention Center after dark. Bourbon Street is safe if crazed after dark, but be extremely careful elsewhere in the French Quarter at night (travel in a group at night in general). Ignore the "gutter punks", who live to torment travelers. Jackson Square, and the Cafe du Monde are generally well populated until fairly late at night. Avoid the riverfront after dark unless in a group. DO NOT try to see the famous cemeteries unless on a guided tour (the National Park Service tour is recommended). They are unsafe at all hours. Avoid Armstrong Park unless in a group, and avoid all city parks after dark. The end of Canal Street nearest the River is the safest part of main street after dark, but late travelers should always exercise caution on or near Canal Street (section modified from Bruce Fleury's web site).

SLIDE PREVIEW AND AUDIO-VISUAL INSTRUCTIONS

Speakers should deliver their slides or PowerPoint presentations on a Zip 100 or CD-ROM (preferred) to the projectionist at least 15 min before start of their session (we are not accepting any other e-formats than PowerPoint). Do not bring your own laptop or a Zip 250. Copy your file onto the desktop of the computer that is assigned to the room where you will be giving your presentation. Name the file with the last name of the first author and the day and time of the presentation (e.g. stouffer_thu_2:30). Preview and troubleshooting will be available daily from 9:00 AM to 5:00 PM, Tuesday-Saturday (24-28 Sep) in the audiovisual room (**Cypress**). Although it is a good idea to check your presentation in Cypress, in most cases you should be able to load and check your presentation during any break in the room where you will be presenting. Remember that your presentation time is limited to 15 minutes, which includes any time that you may lose to technical problems during your talk!

POSTER PRESENTATION INSTRUCTIONS

All poster presentations will take place during one of two poster sessions to be held in LaSalle A of the Hotel Inter-Continental. Poster presenters should be available to discuss their posters during the reception for the session to which they are assigned, Wednesday 6:00-9:00 PM or Friday 6:30-9:30 PM. Refreshments, including a cash bar, will be available at both poster sessions. First session posters should be put up from 11:00 AM-2:00 PM Wednesday, and taken down by 6:00 PM Thursday. Second session posters should be put up from 11:00 AM -2:00 PM Friday, and taken down by noon on Saturday. Please bring your own thumbtacks. Neither the participating societies nor the Local Committee is responsible for any posters left after 12 noon on Saturday, 28 Sep.

VENDORS & EXHIBITORS

Vendors & exhibitors are located primarily in Pelican Rooms 1 & 2 ("Pelican" in the Program map) and Acadian Room, but some exhibitors are also in Le Salon and LaSalle A (in the latter after Wednesday's Plenary talk). All these rooms are in the main conference area on the third Floor of the hotel. Vendor booths will be open from 8:00-5:00 PM, Wednesday-Friday (25-27 Sep), and 10:00-noon (optional) on Saturday, 28 Sep.

EARLY MORNING BIRD WALKS

Early morning bird walks will go out with experienced local birders every morning of the conference (Wednesday - Saturday, 25-28 Sep) to Audubon Park, uptown. Meet no later than 6:30 AM at the park fountains just off St. Charles Avenue (and easily visible from the street), across from the Tulane University Uptown Campus. Habitats include groomed live oak woodlands, golf course, bike paths, and lagoons (with a wading bird roost and other water birds). This should also provide an opportunity to see migratory birds in passage.

Audubon Park is easily accessible via the St. Charles Street Car Line (\$1.25 per person; please allow about 30 minutes to get to the park once you board in front of Hotel Inter-Continental. Get off at the Tulane University stop, just uptown from the Loyola University stop—you'll see Audubon Park on the left (river side) of the tracks as you approach your stop. Ask at registration desk for more information and sign-up sheets. Be sure to sign up, so we know how many people are interested in these trips.

West Nile Virus information available via conference web site (<http://www.tulane.edu/~naoc-02>).

ORNITHOLOGICAL COLLECTIONS AT LSU, BATON ROUGE

The Museum of Natural Science at LSU in Baton Rouge has a major research collection of birds, with over 175,000 specimens. For more details, including a partially searchable data base, see <http://www.museum.lsu.edu/LSUMNS/index.html>. Conference participants who wish to use the collection should make arrangements with Van Remsen (najames@lsu.edu) or Steve Cardiff (scardif@lsu.edu). Driving time from New Orleans is roughly 80 minutes. Given sufficient interest, a once-per-day shuttle service may be arranged from the conference. Also contact Remsen if

interested in convenient, reasonably priced on-campus housing overnight before, during, or after the conference. Visiting researchers are generally given 24/7 access to collections.

“THE AUDUBON LEGACY: THE ORNITHOLOGIST AS ARTIST” EXHIBIT

An exhibit featuring the works of avian scientists who are also artists or illustrators—the first show of its kind to our knowledge. It will showcase the works of over 50 artists, including many well-known contemporary illustrators, the “old masters” (including Peterson, Eckelberry, and Sutton), and some of your friends and colleagues whose talents may not be widely appreciated. The exhibit represents diverse styles and media, from woodcarvings to fabrics, pencil sketches to large oil canvases, and technical illustrations to purely artistic efforts.

This exhibit runs concurrently with the conference (9:00 AM-5:00 PM, Wednesday-Saturday) in the Hotel Inter-Continental’s Jackson and Fulton Rooms, across the hall from Vendors/Exhibitors. Many of the artists will be present to meet visitors during the poster session on Friday evening. Many pieces will be available for sale through the Metal Orchids & Wildlife gallery in Covington, LA, owned by J. Randal Slocum, whose assistance has made this show possible. The exhibit is conceived and organized by Doug Pratt and John O’Neill, assisted by Josie Babin, of the LSU Museum of Natural Science.

“ANDERSON, AUDUBON, *ET ALIA*” EXHIBIT

An exhibit of ornithological works of art presented by the Special Collections Division of the Howard-Tilton Library and the Department of Ecology and Evolutionary Biology of Tulane University.

Walter Inglis Anderson (1903-1965) was a Mississippi artist well known for his representations of all facets of natural history. The exhibit presents all phases of his work, including early drawings for a never published field guide to the birds of Mississippi along with bird portraits from throughout his life. Anderson used ceramics and linoleum blocks for his birds, but the flowering of his love for feathered creatures appears in his watercolors. A second edition of the book *Walter Anderson: Birds* is being published by the University Press of Mississippi, and should be available by the time of the meeting.

Beginning with the Francis Willughby *Ornithologiae libri tres* printed in London in 1678, selected treasures from the Tulane Collection will also be displayed. Focusing primarily on the birds of North America via Wilson, Bonaparte, Studer, and of course lots of Audubon. You will also view volumes including Swainson’s *Zoological illustrations*, Gould’s *Birds of Paradise*, Selby’s *Natural History of Pigeons*, and Elizabeth Butterworth’s spectacular *Parrots of the Amazon*.

Exhibit takes place on Tulane Uptown Campus, Jones Hall, 2nd Floor (Special Collections), from 10 AM-5 PM throughout the conference. Wine and cheese reception: Wednesday, 25 Sep, 5-7 PM. To get there on your own, take the Freret St. Bus Line (see map in Program; one-way fee \$1.25) to Tulane Uptown Campus, get off the bus by Jones Hall/Howard Tilton Library on Tulane Campus (uptown, near end of line), and go to 2nd Floor Jones Hall, Special Collections Room. The exhibition and reception are due to the efforts, loans, and generosity of Anne and Donald Bradburn,

and to the generosity of the Walter Inglis Anderson Family.

SPECIALY COMMISSIONED POSTER

The conference features a poster based on a serigraph (silk screen) by well-known Baton Rouge artist Anne Senechal Faust. The image, entitled "Cameron Prairie", features a flock of 6 White Ibis flying in front of massive cumulus clouds so typical of the Gulf Coast in spring and summer. The poster is on sale for \$7.50 plus taxes during the meeting and will be available during the art show "The Audubon Legacy: the Ornithologist as Artist" exhibit (Acadian and Jackson Rooms). Protective mailing tubes will also be available. After the meeting, posters will be obtainable from The Metal Orchid Gallery, Covington, LA, at increased price.

MEETING LOGO

The meeting logo was designed by Michael D. Wilcox, who now resides in southern California and works as a wildlife biologist and ecologist (AMEC Earth & Environmental, Inc.). He works primarily with endangered and threatened amphibians, reptiles, and insects, but also occasionally with sensitive birds and mammals. Inspiration for the winning design came from several trips to observe the native flora and fauna of the southeastern United States, Yucatan, and Costa Rica. Biologists and naturalists who influenced him most include colleagues Lawrence F. Lapre, Stephen J. Myers, Chet M. Mcgaugh, Nathan T. Moorhatch, Wes J. Speake, and Richard F. Montijo; wildlife artists John James Audubon, Robert C. Stebbins, Robert Bateman, Joe Garcia, Carl Brenders, Carl Peiter Brest van Kempen, and Lindsey Foggett. Mike also thanks his wonder wife Denise, loving family and friends for their support and encouragement, and Kenneth O. Walker for technical assistance.

T-SHIRTS

Attractively designed conference t-shirts—which make excellent gifts—are for sale Wednesday-Friday, 10:00 AM-5:00 PM, in Pelican Room of the Hotel Inter-Continental. Proceeds to benefit graduate students of the Gulf Coast region. T-shirt front portrays the colorful conference Anhinga logo ("3rd North American Ornithological Conference/ Birds on the Bayou: In the Footsteps of Audubon"), and back acknowledges participating societies, sponsors, and co-hosts. T-shirts in children's S, M, L sizes and adults S, M, L, XL sizes cost \$10. XXL t-shirts cost \$12. Long-sleeved t-shirts are also available in adults S, M, L, and XL for \$15. A \$4 shipping fee will be added to any special orders made during the conference. To place special orders during or after the meeting contact Donata Roome (droome@tulane.edu).

ALL-OUT OSTRICH UPROAR 5 KM RUN

The All-out Ostrich Uproar 5km race this year will take place in Audubon Park, in the Uptown area of New Orleans under the live oaks and Spanish moss. The race begins at 7:00 AM on Saturday morning, 28 Sep, beginning at the fountains just off St. Charles Avenue (and easily visible from the street). Please register for the race at the Conference Registration/Information Desk by noon on Friday, 27 Sep. Suggested donation: \$10, proceeds to benefit the Van Tyne Memorial Research Fund.

Arrangements will be made for round-trip van transport of all racers from and

back to the main entrance to Hotel Inter-Continental, departing the hotel at 6:00 A.M., and returning prior to the Saturday plenary lecture. Alternatively, Audubon Park is easily accessible via the St. Charles Street Car Line (\$1.25 per person; allow 30 minutes to get to the park once you get aboard a streetcar. Get off at the Tulane University stop, just uptown from the Loyola University stop—you'll see Audubon Park on the river side of the tracks as you approach your stop. Contact: Doug James (at Hotel Inter-Continental).

SILENT AUCTION

The Society for Conservation and Study of Caribbean Birds (SCSCB) is holding a silent auction all day Thursday, 26 Sep, in **Oak and Magnolia Rooms**—great treasure-shopping opportunity! Bidding opens 10 AM and closes at 3:45 PM sharp (during the afternoon break), and is open to all conference delegates. Proceeds to benefit travel expenses of Caribbean Nationals.

Bidding takes place during the designated time period on Thursday by adding one's name and bid to the form provided for each item. Instructions will be posted around the bidding tables. At 3:45 PM the last bidder on each form is the winner. Items may be collected immediately after the bidding closes or on Friday morning from 9 AM to noon in the Oak Room.

Anyone wishing to donate items for the silent auction to assist SCSCB with its fund raising efforts should deliver their item(s) to the Oak Room as early as possible at the conference or by Wednesday afternoon at the latest. Items should be bird related, e.g. field guides, t-shirts, used or new stamps, art, pins, CDs, books, totebags, small toys, handcrafts, bird feeders, etc.

RECREATION

The Hotel Inter-Continental provides registered guests its own fitness equipment (weight room) and a pool on its fifteenth floor. Hotel Inter-Continental registered guests can also use the Elmwood Fitness Center's comprehensive athletic facility (sauna, jacuzzi, racquetball, aerobics, etc.) at a reduced rate of \$10.00 per visit, and conveniently located at 1 Shell Square, 701 Poydras St. (www.elmwoodfitness.com).

Any visitor can also use YMCA facilities (including pool, basketball courts, weight rooms, and walking/running tracks) for \$8 per day, or obtain a five-day pass for \$16 (for 24-28 Sep; ask for Ralph). This facility is located five blocks away at 920 St. Charles Ave. (at Lee Circle; ph. 568-9622).

CHILDCARE

ACCENT on Children's Arrangements, a reputable, 12-year-old New Orleans-based company, provides a variety of options for childcare needs (Ph. 524-0188; <http://www.accentoca.com>). If enough families (10 or more children) have shown interest, ACCENT on Children's Arrangements will have provided an exciting on-site program at the Hotel Inter-Continental—inquire during registration as to the status of this program. Fees run about \$10.00 per hour per child (or \$70-\$85 per 10-hour day, depending on child's age). Regular baby-sitting services also available.

The Hotel Inter-Continental Concierge can suggest alternative child-care options.

ALTERNATIVE AND FAMILY ACTIVITIES

Registered participants and guests may attend all conference social events (banquet fee an additional \$50.00). Others may purchase ticket to the Opening Reception, House of Blues Picnic, or Final Banquet (\$50.00 each; children under 12 are free to all except final banquet).

A wealth of other natural, historic, and cultural attractions is available in New Orleans, many within walking distance of the Hotel Inter-Continental. A spouse-and-family orientation session to such activities will be held from 9:00-10:00 Wednesday morning, 25 Sep, in the Poydras Room of the Hotel Inter-Continental. In addition, Convention Hospitality Services will be available to help make reservations for restaurants and sightseeing tours such as steamboat cruises. They will also have an information booth near the Registration/Information area during the first few days of the conference.

Just a few sites of interest in New Orleans include:

Historic Buildings—St. Louis Cathedral, Longue Vue House and Gardens, Hermann-Grima House, Gallier House, Degas House

Plantations—Destrehan, Nottoway, Oak Alley, San Francisco

Science and Nature—Audubon Zoological Gardens, Louisiana Science and Nature Center, Aquarium of the Americas and IMAX theater, Audubon Center for Research of Endangered Species, City Park Botanical Gardens

Parks and Recreation—Audubon Park, City Park, Jean Lafitte National Historical Park (including Chalmette Battle Field, French Quarter, and Barataria [natural history] Units)

Museums—Louisiana State Museum, the Louisiana Children's Museum, the Presbytere, the Old U.S. Mint, the Cabildo, the New Orleans Museum of Art, the Historic New Orleans Collection, the National D-Day Museum

Fine Arts—Contemporary Arts Center, Le Petit Theatre du Vieux Carré, Saenger Performing Arts Center, Preservation Hall, New Orleans Museum of Art, and many art galleries in the Central Business District and Warehouse District

Music—Preservation Hall, Café Istanbul, Famous Door, Snug Harbor, House of Blues, Tipitina's

Shopping—French Market, Jackson Brewery, Canal Place Shopping Centre, The Riverwalk and New Orleans Center

Many tours are available to those not attending scientific sessions. Examples include tours of the French Quarter, plantations, other heritage sites, and local swamps, which feature knowledgeable guides for reasonable fees. For more information consult the Concierge Desk at the Hotel Inter-Continental, as well as the conference web site ("Everything's Hot Down in New Orleans", <http://www.tulane.edu/~bfleury/neworleans/NewOrleans.htm>).

BIRD-FRIENDLY COFFEE

All coffee provided for this conference is certified by the Smithsonian Migratory Bird Center (SMBC) to be bird-friendly, shade-grown, organic coffee. Enjoy this fine brew made possible by donations from Coffee Roasters of New Orleans (CRNO; retail distributor Orleans Coffee Exchange—<http://www.orleanscoffee.com>) and by a financial contribution from Wild Birds Unlimited (WBU). Thanks to Alicia Craig (WBU),

Russ Greenberg (SMBC), Bill Siemers (CRNO), Shannon Tanner, and the patience of Rick Hart at Hotel Inter-Continental for helping make this possible.

If you drink coffee but not a bird-friendly brand, please consider educating yourself at the conference or afterwards (e.g., <http://natzoo.si.edu/smbc/Products/Factsheets/factsheets.asp>, or <http://www.seattleaudubon.org/coffee>) about the importance of consuming brands whose production helps protect tropical habitat for birds and other wildlife.

K-12 TEACHER WORKSHOP

The NAOC Local Committee, Tulane University, and the Audubon Louisiana Nature Center will host a professional development workshop for New Orleans area schoolteachers on 21-22 Sep. The workshop includes bird-themed activities from the Cornell Lab of Ornithology's Citizen Science in the Schoolyard program, the Barataria-Terrebonne National Estuary Program, and Partners in Flight. Additional sponsors include the Tulane/Xavier Center for Bioenvironmental Research, the Cornell Laboratory of Ornithology, the Environmental Protection Agency, the Mobil Foundation, and the New Orleans Public School system. For more information contact David Brown (gesualdi@l-55.com).

IN MEMORY OF ROBERT SUTTON

The local committee was saddened to learn of the tragic murder in July of Robert Sutton, internationally known Jamaican Ornithologist. Robert co-authored with Audrey Downer "*Birds of Jamaica: a Photographic Field Guide*" (Cambridge University Press), and co-produced with George Reynard "*Bird Songs in Jamaica*" (a set of tapes and CDs, Cornell Univ. Press). He also opened his home and knowledge unstintingly to birders, bird tours, and visiting scientists; and he and his surviving wife Ann Haynes-Sutton were pioneering supporters of nature tourism and conservation efforts on the island. The Society for the Study and Conservation of Caribbean Birds has established a fund to support bird conservation efforts on the island: To contribute, please send checks (tax deductible) to the attention of "Robert Sutton Memorial Fund", National Fish and Wildlife Foundation, 1120 Connecticut Ave NW, Suite 900, Washington, DC, 20036 (ph. 202-857-0166).

SPECIAL EVENTS

Tuesday, 24 September

- 17:30 - 20:00 No-host Dinner for AOU Council & Fellows, and Officers of COS, RRF, SCO/SOC, SCSCB, and CIPAMEX and Guests; Michoud's Live Cajun and Jazz Music Restaurant, 840 St. Charles Ave.
- 19:00 - 22:00 Opening Reception with Louisiana hors d'oeuvres & cash bar, featuring •Wings over the WetlandsŽ a film produced by the Barrataria-Terrebonne National Estuary Program; Audubon Nature Institute's •Aquarium of the AmericasŽ, foot of Canal St. by Canal Place

Wednesday, 25 September

- 08:30 - 09:00 Conference Welcome, Opening Remarks, and Announcements; LaSalle ABC (and by video feed to Pan-Am Auditorium for overflow crowd)
- 17:00 -18:00 Special Lecture by James Ingold, •History of Louisiana OrnithologyŽ; Vieux Carré - AB
- 17:00 -19:00 Reception for exhibition, •Anderson, Audubon, et AliaŽ, with wine and cheese hors d'oeuvres; Jones Hall, Second Floor (Special Collections), Tulane University Uptown Campus
- 18:00 - 21:00 First Poster Session, Wine & Cheese (light hors d'oeuvres) Reception, LaSalle - A

Thursday, 26 September

- 10:00 - 15:45 Silent Auction, Society for the Conservation and Study of Caribbean Birds (SCSCB), with all bidding ending promptly at 3:45 PM; Oak & Magnolia
- 18:30 - 21:30 Mid-Conference Picnic & Party (with •Sunpie and the Louisiana SunspotsŽ), Cajun buffet dinner and free drinks included. Note that this is Thursday dinner, paid for with registration, and all registrants are encouraged to attend (space available to socialize away from music); House of Blues, Decatur Street (French Quarter)

Friday, 27 September

- 18:30 - 21:30 Second Poster Session, New Orleans Dessert Reception with coffee and cash bar, LaSalle - A

Saturday, 28 September

- 07:00 - 08:00 All-out Ostrich Uproar 5 km Race, with registration prior to race; Audubon Park by Fountain across St. Charles Ave. from Tulane Uptown University Administration Building
- 17:15 - 18:00 Cocktails,,cash bar; Le Salon
- 18:00 - 23:00 Final Banquet with Cajun dance band, •Les Freres MichotŽ; Grand Ballroom (LaSalle - A, B, & C)

PLENARIES AND SYMPOSIA

Tuesday, 24 September

- 09:00 - 13:00 Putting wildlife first: contributions to bird conservation on National Wildlife Refuges (P. J. Heglund, K. Granillo & J. Taylor; Pontalba)
- 09:00 - 11:15 Colonial waterbird biology & conservation (J. Kushlan; LaSalle -B)
- 09:00 - 12:00 Avian microbe interactions (S. Roberts; Vieux Carré - B)
- 13:00 - 16:00 The use of ornithology in education (D. J. Watt; LaSalle - C)
- 13:25 - 18:15 Current issues in bird conservation: the application of sound science to formulate policy decisions (G. W. Winegrad; Vieux Carré - B)
- 13:30 - 16:00 Linking physiology, morphology, and ecology in nectar-feeding birds (T. J. McWhorter, J. E. Schondube & D. R. Powers; LaSalle - B)
- 14:00 - 16:45 Enriching the conceptual basis of bird monitoring schemes (A. McCallum, T. Scott & S. L. L. Gaunt; Pontalba)

Wednesday, 25 September

- 09:00 ... 10:00 Plenary 1. A new view of avian life history evolution applied to parental care, clutch size, and developmental patterns across the world (T. E. Martin; LaSalle - ABC; and video feed to an overflow location to be announced)
- 10:30 - 13:00 Physiological ecology of migration: how to fly, fast, and feed enroute (R. L. Holberton & S. R. McWilliams; Vieux Carré - A)
- 14:00 - 17:30 Island treasures: avian research and conservation in the Caribbean (R. Gnam; Poydras)

Thursday, 26 September

- 09:00 - 10:00 Plenary 2. In Search of King Solomon's Ring: Studies on the Cognitive and Communicative Abilities of Grey Parrots (I. Pepperberg; LaSalle - BC; & video feed to an overflow location to be announced)
- 10:30 - 15:45 Celebrating 100 years of bird banding in North America (J. Tautin; Vieux Carré - A)

Friday, 27 September

- 09:00 - 10:00 Plenary 3. Twenty-five primary evolutionary insights from the phylogeographic revolution in population genetics (J. C. Avise; LaSalle - BC; and video feed to an overflow location to be announced)
- 10:30 - 12:45 Conservation and ecology of disturbance-dependent birds (F. R. Thompson III & J. Brawn; Vieux Carré - B)
- 10:30 - 12:30 Problems and opportunities in avian deep phylogenetics (J. Harshman & A. Driskell; Vieux Carré - A)
- 14:00 - 17:30 Satellite telemetry of birds (K. D. Meyer, J. A. Coulson & B. A. Millsap; Vieux Carré A)

Saturday, 28 September

- 09:00 - 10:00 Plenary 4. Migratory orientation: development and adaptive plasticity (K. P. Able; LaSalle - BC; and video feed to an overflow location to be announced)
- 10:30 - 12:15 Threatened birds and their habitats in Mexico: conservation program PROAVES (J. L. Alcántara; Poydras)
- 14:00 - 15:45 Natural climate variability and birds: recent advances in our understanding of worldwide climate systems, and an examination of their effect on avian population dynamics (E. A. Schreiber & D. Gemmill; Vieux Carré - A)
- 14:00 - 17:30 The ecology of cavity nesters: keystone processes (J. Bednarz, P. Radley & D. Ripper; Vieux Carré - B)

WORKSHOPS AND ROUNDTABLES

Tuesday, 24 September

- 09:00 - 16:30 Empowering large-scale, long-term studies on Neotropical bird populations on permanent bird plots (B. Loiselle & J. G. Blake; Vieux Carré - A)

Wednesday, 25 September

- 10:30 - 12:30 Introduction to Band Manager (M. Gustafson; Les Continents)
- 12:30 - 14:00 Bird strike mitigation: Opportunities in applied ornithology (J. M. Lamb; Magnolia)
- 14:00 - 16:00 Advanced Band Manager (M. Gustafson; Les Continents)

Thursday, 26 September

- 12:30 -14:00 New opportunities for research on the National Wildlife Refuges (E. Paul; Les Continents)
- 14:15 -17:15 Conservation of Gyps vultures in Asia (J. Parry-Jones & T. Katzner; Les Continents)

Friday, 27 September

- 14:00 -17:30 Conservation planning for Caribbean aquatic birds (E. Carey; Magnolia)
- 17:30 -19:00 Satellite telemetry methods (K. D. Meyer, J. A. Coulson & B. A. Millsap; Vieux Carré - A)

Saturday, 28 September

- 10:30 -12:30 Ageing and sexing birds in the hand (and in the field) (M. Gustafson; Les Continents)

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--TUESDAY MORNING

<p>Symposium B (LaSalle - B) Colonial waterbird biology and conservation</p> <p>J. Kushlan, organizer</p>	<p>Symposium A (Pontalba) Contributions to bird conservation on Natl. Wildlife Refuges</p> <p>P.J. Heglund, K. Granillo & J. Talyor, organizers</p>	<p>Symposium C (Vieux Carré - B) Avian-microbe interactions</p> <p>Sharon Roberts, organizer</p>
<p>9:00 S010 - Planning for colonial waterbird conservation: lessons and opportunities. J.A. KUSHLAN</p>	<p>9:00 S001 - Research on National Wildlife Refuges -- Policy, position, and pragmatism. W.J. KING</p>	<p>9:00 S019 - Sexually transmitted diseases in birds. M. LOMBARDO, P. THORPE</p>
<p>9:15 S011 - Developing monitoring and research priorities for colonial waterbirds in Canada. A.J. GASTON, D. V. WESELOH</p>	<p>9:15 S002 - Refuge biologists: the other refuge resource. B. McCAFFERY, K. GRANILLO</p>	<p>9:25 S020 - Streptomyces species: microecology of another feather-degrading bacterium. BURTT, Jr., WENGER, CELESTINO MILLER, NGUYEN, ICHIDA</p>
<p>9:30 S012 - Approaches to waterbird conservation in Mesoamerica and the Caribbean. DAVIDSON, CAREY, ESTRADA, WEGE, ZUNIGA</p>	<p>9:30 S003 - The value of cooperative regional research studies on refuges in the Northeast. H. LASKOWSKI, J. TAYLOR, J. HESTBECK, W. KENDALL, M. RUNGE</p>	<p>9:50 S021 - Arthropod-borne encephalitis viruses in birds. M.C. GARVIN</p>
<p>9:45 S013 - Challenges and tools for monitoring colonial waterbirds on a cont. scale. M. STEINKAMP</p>	<p>10:00 S004 - Using nat., reg. & refuge datasets to develop regional goals & objectives for refuge management. J. CASEY, J. TAYLOR, H. LASKOWSKI, J. SAUER</p>	<p>10:15 S022 - West Nile Virus: an emerging avian disease. P.P. MARRA, A.P. DUPUIS II</p>
<p>10:00 S014 - Conservation status assessment of N.A. colonial waterbirds. K.C. PARSONS, A.L. WILKE</p>	<p>10:30 S005 - Capturing and handling adult American Bittern. W. BRININGER, Jr., G. HUSCHLE, J. TOEPFER, D. AZURE</p>	<p>10:40 S023 - A historical perspective of avian diseases in Hawaii. C. VAN RIPER III, C. ATKINSON, S. VAN RIPER, W. HANSEN</p>
<p>10:15 S015 - Colonial waterbirds and aquaculture. A.P. GAUDÉ, D.T. KING</p>		
<p>10:30 S016 - Conserv. and management of abundant colonial waterbirds: a double-edged sword. F. CUTHBERT, L. WIRES</p>		
<p>10:45 S017- Ecosystem-level approach to seabird conservation the California Current. K.L. MILLS, W.J. SYDEMAN, D. HYRENBACH, G. ELLIOTT</p>		
<p>11:00 S018 - Seabird-fishery interactions. J.K. PARRISH</p>	<p>11:00 S006 - Contributions to national shorebird and marshbird monitoring efforts on NWRs in USFWS Region 6. S. FELLOWS, D. KLUTE, S. JONES, A. ARAYA</p>	<p>11:05 S024 - Introduced pathogens and persistent bird pops. in Hawaii: biocomplexity of an evolving disease system. B. L. WOODWORTH, C.T. ATKINSON, et al.</p>
<p>PLEASE NOTE: SESSION TIMES ON THIS PAGE MAY NOT LINE UP HORIZONTALLY!</p>	<p>11:30 S007 - Seabird trends on Alaska Maritime NWR provide insight into causes of Steller Sea Lion declines. V. BYRD, T. LOUGHLIN</p>	<p>11:30 S025 - Mycoplasmal conjunctivitis in House Finches: a new and evolving host-parasite relationship. S.R. ROBERTS, G.E. HILL</p>
	<p>12:00 S008 - Terrestrial bird communities in riparian habitats of the Bosque del Apache NWR, NM. J.P. TAYLOR</p>	
	<p>12:30 S009 - Winter grassland bird community dynamics in pine savanna habitat: the role of fire. M.S. WOODREY, C.R. CHANDLER</p>	

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--TUESDAY AFTERNOON

Symp. G (Vieux Carré - B)	Symposium E (LaSalle - B)	Symposium F (LaSalle - C)	Symposium D (Pontalba)
<p>Issues in bird conserv.: the applic. of sound science to formulate policy decisions. G.W. Winegrad, organizer</p>	<p>Linking physiology, morphology, and ecology in nectar-feeding birds. T.J. McWhorter, J.Schondube & D.R. Powers, organizers</p>	<p>The use of ornithology in education D.J. Watt, organizer</p>	<p>Enriching the conceptual basis of bird monitoring schemes A. McCallum, T. Scott & S.L.L. Gaunt, organizers</p>
		<p>13:00 S042-Opening remarks D.J. WATT</p>	
<p>13:25 Efforts to reduce Lead Poisoning, HawkWatch Internat. W. SANBORN</p>	<p>13:30 S034 - Celebrating Bill Calder's life and contributions to biology and conservation. J.E. SCHONDUBE, T. McWHORTER</p>	<p>13:20 S043 - Ornithology in K-12 Education. D.R. BROWN</p>	
<p>13:50 San Clemente Loggerhead Shrike Recovery: Bombs and Birds. K. BROCK</p>	<p>13:45 S034b - The links between energy, water and behavior in avian nectarivores. T. McWHORTER, C. MARTINEZ DEL RIO, B. PINSHOW</p>	<p>13:40 S044 - Experiential learning: teaching field ornith. to undergrads on Appledore Island. S.R. MORRIS, J.C. ELLIS</p>	
<p>14:15 Global Warming and Birds: No Orioles in Baltimore? J. PRICE</p>	<p>14:00 S035 - How do sunbirds cope with varying nectar concent.? energy balance and osmoreg. P.A. FLEMING, S.W. NICOLSON</p>	<p>14:00 S045 - Undergraduate research in ornithology. E.H. BURTT, J.M. ICHIDA</p>	<p>14:00 S026 - A conservation bioacoustics manifesto. D. McCALLUM, T. SCOTT, S.GAUNT</p>
<p>14:40 Predator removal from breeding Islands: successful conserv. on 26 Islands in Mexico and Anacapa. B. TERSHY</p>	<p>14:15 S036 - *Protein requirements in hummingbirds: linking laboratory and field information. M.V. LOPEZ-CALLEJA, MA.J. FERNANDEZ</p>	<p>14:20 S046 - Things undergrad. students should know: how to impress grad. schools, and how to choose a grad. program in ornithology. O. KOMAR</p>	<p>14:10 S027 - Sound recordings, distributed biodiversity databases, and ecological niche modeling: new tools create new functionalities. A.T. PETERSON, A.G. NAVARRO-SIGUENZA</p>
<p>15:15 S050 - Horseshoe crab over-harvest and shorebirds: plans G. WINEGRAD</p>	<p>14:30 S037 - Torpor use by hummingbirds: costs/ benefits of nocturnal hypothermia. D.R. POWERS</p>	<p>14:40 S047 - The Institute for Field Ornithology as an educational resource. J. KRICHER</p>	<p>14:30 S028 - Using bird sounds to identify a species. D.E. KROODSMA</p>
<p>15:45 S051 - Impacts of free-roaming cats on birds and other wildlife: the CATS INDOORS program. L. WINTER</p>	<p>14:45 S038 - Effects of sugar concentration on nectar selection: coevolutionary effects of a physiological mechanism. SCHONDUBE, MARTINEZ DEL RIO</p>	<p>15:00 S048 - Coordinating an international education program: Migratory Bird Day. S. BONFIELD</p>	<p>14:45 S029 - Perceptual and cognitive errors on aural surveys: the importance of recording bioacoustic data. T.A. SCOTT, L. ROSENBLUM</p>
<p>16:15 S052 - Longline fishing hooks present threat to albatrosses and other seabirds. M. PARR</p>	<p>15:00 S039 - Sexual dimorphism and coevolution: intra- and inter-island studies of a hummingbird – <i>Heliconia</i> system. E.J. TEMELES, W. JOHN KRESS</p>	<p>15:20 S049 - Summary of Points and Conclusions</p>	<p>15:15 S 030 - Vocal signals and noisy habitats: what the bird's ear tells us about acoustic monitoring. B. LOHR, T. WRIGHT, R. DOOLING, D. GILL</p>
<p>16:45 S053 - Pesticides and birds, a deadly mixture: fashioning solutions. P. BRIGHT</p>	<p>15:15 S040 - Confronting asymmetrical studies in the exploitation of mutualisms: the impact of nectar robbers on nectar-feeding birds. R.E. IRWIN</p>	<p>PLEASE NOTE: SESSION TIMES ON THIS PAGE MAY NOT LINE UP HORIZONTALLY!</p>	<p>15:45 S031 - Correcting ID errors and estimating detection prob. for aural surveys with sound recordings. McCALLUM, BART, EARNST, BEEMAN, et al.</p>
<p>17:15 S054 - Avian mortality at communication towers: over 60,000 lit towers threaten birds. G. WINEGRAD</p>	<p>15:30 S041 - Of helicopters and hummingbirds: wing morphol. and flight in some NA hummingbird species. STILES, ALTSHULER, DUDLEY</p>		<p>16:15 S032 - Incorp. Behav. Ecology data into vocal.-based avian research and monitoring Programs. B. WALKER</p>
<p>17:45 S055 - Habitat planning for birds: the N.A. Bird Conservation initiative. D.N. PASHLEY</p>	<p>15:45 S041b - Evolutionary and ecological determinants of avian torpor: a conceptual model. A. McKECHNIE, B.G. LOVEGROVE</p>		<p>16:30 S033 - Conservation bioacoustics: past, present, and future. S. GAUNT, J. SOHA, J. FITZPATRICK</p>

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--**WEDNESDAY MORNING**

Sess. 1H (Vieux Carré - AB)		Sess. 1G (LaSalle - C)		Sess. 1C (Cabildo)	
Conservation		Migration		Behavior	
Chair: Joan L. Morrison		Chair: Jeff P. Smith		Chair: Peter C. Frederick	
10:30	33 The Swallow-tailed Kite in Texas: a Citizen Science survey and monitoring project. C. SHACKELFORD, J. HAMRICK, et al.	25	*Solving the mystery of the unbanded Peregrine Falcons - a stable isotope exploration of northern Canada. J. DUXBURY, G. HOLROYD, K. MUEHLENBACHS	1	Are dawn vocalization surveys effective for monitoring Northern Goshawk nest occupancy? P. KENNEDY, S. DEWEY, R. STEPHENS
10:45	34 *Conspecific attraction and the conservation of endangered birds. S. SCHLOSSBERG, M. WARD	26	*The migration of the Hook-billed Kite. E. INZUNZA, L. GOODRICH, S. HOFFMAN, J. MONTEJO DIAZ	2	*Polygyny and extra-pair paternity in a population of Southwestern Willow Flycatchers. T. PEARSON, M. WHITFIELD, T. THEIMER, P. KEIM
11:00	35 *Are conservation priority areas artifacts of sampling? L. DAVALOS, S. REDDY	27	Migration routes, timing, and territory fidelity of Red-tailed Hawks in western N. A. as determined by satellite telemetry. J. SMITH, M. VEKASY	3	*Habitat-related constraints on Wood Thrush nest attendance, food delivery rates, & fledging success: a study using infrared mini- video cameras. G. WILLIAMS, P. WOOD
11:15	36 *Conservation needs and habitat use of post-fledgling Barn Owls in Arkansas. P. RADLEY, J. BEDNARZ	28	Nocturnal bird migration at the Stateline and Vansycle wind-energy projects in Oregon. T. MABEE, B. COOPER	4	Effect of asynchronous nesting on accuracy of counts of nesting birds. P. FREDERICK, J. HEATH, R. BENNETTS
11:30	37 Rate of species loss from Amazonian forest fragments. FERRAZ, RUSSELL, STOUFFER, BIERREGAARD, PIMM, LOVEJOY	29	Mexico to Alaska: spring migration of Dunlin and dowitchers. M. BISHOP, N. WARNOCK, J. TAKEKAWA	5	*Multi-scale analysis of nest predation risk of the Least Bell's Vireo. B. PETERSON, B. KUS, D. DEUTSCHMAN
11:45	38 Local extinctions in Amazonian forest fragments: continued species loss through 20 years post-isolation. P. STOUFFER, C. STRONG	30	Landscape movements of Lilac-crowned Parrots and Citreoline Trogons in tropical dry forest. K. RENTON, A. SALINAS-MELGOZA, J. VEGA-RIVERA	6	*Male parental care and paternity in a double-brooded species with brood division. K. WHITTAKER, K. THUSIUS, L. WHITTINGHAM, P. DUNN
12:00	39 Conservation biology of the Buff-breasted Sandpiper in South America. V. GILL, R. LANCTOT, D. BLANCO, R. DIAS	31	Stable isotope signature of philopatry and dispersal in a migratory songbird. G. GRAVES, C. ROMANEK, A. NAVARRO	7	*Hatching success & nestling sex ratio in Black-capped and Carolina Chickadees: do hybridizing chickadees follow Haldane's Rule? K. CORNELL, R. CURRY
12:15	40 The Greater Prairie-Chicken in western Canada: invasion, occupation, extirpation. C.S. HOUSTON	32	*Combined stable-hydrogen isotope and band analyses to assess migration patterns of immature Sharp-shinned Hawks. R. SMITH, T. MEEHAN, B. WOLF	8	*An experimental study of parental care under varying food availability. A. PODOLSKY, T. SIMONS, J. COLLAZO
12:30					

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--**WEDNESDAY MORNING**

Sess. 1D (Pan-Am Audit.)		Sess. 1E (Pontalba)		Symp. H (Poydras)		
Systematics		Breeding biology		Physiological ecology of migration		
Chair: Robert C. Faucett		Chair: Stephen T. Emlen		R.L. Holberton & S.R. McWilliams, organizers		
10:30	9	Molecular phylogenetics of falconiform birds. W.J. BRAUN, W.E. HOLZNAGEL	17	Nest building honestly advertises nestling provisioning in male Buff-breasted Wrens. S. GILL, B. STUTCHBURY	S056	Regulation of migratory feeding and fattening by the avian brain: a molecular approach. T. BOSWELL, D. PHILLIPS-SINGH
10:45	10	Phylogeny of swallows (Hirundinidae) via cytochrome b sequences. F. SHELDON, L. WHITTINGHAM, B. SLIKAS, D. WINKLER	18	Plumage differences in House Wrens indicate a possible trait under sexual selection. I. SCHEIBER		
11:00	11	Phylogeny of the <i>Geositta</i> miners (Furnariidae). Z. CHEVIRON, A. CAPPARELLA, F. VUILLEUMIER	19	*Weakness of pair bonds indicates social promiscuity in wild Muscovy Ducks. S. STAI	S057	Metabolic physiology of birds during migration. C.G. GUGLIELMO
11:15	12	*Biogeog. of the S. American aridlands: Revised species limits and phylogenies help untangle a complex history. A. PORZECANSKI	20	Life in a male harem: costs and benefits of polyandrous associations in Wattled Jacanas. S. EMLEN, P. WREGE, N. DEMONG		
11:30	13	A phylogeny of the antshrikes, elucidating patterns in the evolution of voice. R. FAUCETT, R. BRUMFIELD	21	*The role of plumage coloration in flocking behavior of wading birds. M.C. GREEN, PAUL L. LEBERG	S058	Nutritional ecology of birds during migration. S.R. McWILLIAMS, B.J. PIERCE
11:45	14	Unraveling variation in the Variable Antshrike. R.T. BRUMFIELD	22	Why are drab male House Finches socially dominant to bright males? G. HILL, K. MCGRAW, A. STOEHR, R. DUCKWORTH		
12:00	15	Phylogeny and biogeography of the Button-Quail (family Turnicidae). R. CHESSER, J. HAVE	23	*Black face patterns necessary for pairing in GWWA: a link to their displacement by BWWA through introgression. E. LEICHTY	S059	The role of corticosterone in migratory feeding, fattening and orientation. R. HOLBERTON, J. LONG, R. SANDBERG
12:15	16	Molecular phylogeny of <i>Buarremon</i> brush-finches (Emberizidae): plumage does not reflect relationships and complicates biogeographic understanding. C.D. CADENA	24	Off territory forays and extra-pair mating success of male Acadian Flycatchers. B. WOOLFENDEN, B. STUTCHBURY, E. MORTON		
12:30					S060	The energy costs of flight and our understanding of migration ecology. M. KLAASSEN, Å. LINDSTRÖM

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--**WEDNESDAY AFTERNOON**

	Sess. 2H (Vieux Carré - AB)	Session 2G (LaSalle - C)	Session 2C (Cabildo)
	Conservation	Migration	Breeding biology
	Chair: David W. Steadman	Chair: Carol J. Beadmore	Chair: Michael Webster
14:00	⁶⁵ A tool for assigning relative conservation values to habitats on local and regional scales. T. WILL, C. KORSCHGEN, T. FOX, M. KNUTSON	⁵⁹ Stopover ecology of spring migrating landbirds in Michigan's eastern Upper Peninsula. R. SMITH, F. MOORE	⁴¹ *Parentage in Wild Turkey nests and its implications for kin selection. A. KRAKAUER
14:15	⁶⁶ Is my place better than yours? Issues in setting geographic conservation priorities. J. WELLS, K. ROSENBERG, T. RICH	⁶⁰ Fall stopover habitats of landbirds: use of mature edge-dominated and successional forests. P.G. RODEWALD, M.C. BRITTINGHAM	⁴² *Clutch size evolution in a Neotropical bird: experimental test of nest predation and individual optimization hypotheses. J. STYRSKY, S. ROBINSON, J. BRAUN
14:30	⁶⁷ Instantaneous vs. protracted extinction events in island birds. D. STEADMAN	⁶¹ *Habitat use of Gray Catbirds during fall migration at a stopover site in Alabama. J.W. FARRINGTON, F.R. MOORE	⁴³ *Immunocompetence, parentage and MHC in the Red-billed Gull breeding colony, Kaikoura Peninsula, New Zealand. N. CHONG, A. GIVEN, J. MILLS, A. BAKER
14:45	⁶⁸ Habitat use patterns of wintering grassland birds in Chihuahua, Mexico. C. MENDEZ-GONZALEZ, A. LAFON-TERRAZAS, A. MONTOYA	⁶² *Immunological condition of landbird migrants in relation to their energetic condition during spring stopover. J. OWEN, F. MOORE	⁴⁴ *Are there costs to coloniality? Nesting density and breeding success in Caspian Terns. M. ANTOLOS, D. ROBY, S. ANDERSON, D. LYONS
15:00	⁶⁹ Important Bird Areas: a tool for bird conservation. D. NIVEN, J. WELLS, J. CECIL	⁶³ Fat deposition strategies among high-latitude passerine migrants. A. BENSON, K. WINKER	⁴⁵ *Incubation period and immunocompetence: a comparative study. M. PALACIOS, T. MARTIN
15:15	⁷⁰ Associations of instream flow alterations & land use impacts with SW riparian bird communities E. M. AMMON, D. FAGAN	⁶⁴ Habitat use by migrating songbirds during stopovers in New Jersey: a radar/GIS study. D. MIZRAHI, V. ELIA	⁴⁶ *Sibling competition and the duration of incubation. J. D. LLOYD

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--**WEDNESDAY AFTERNOON**

Session 2D (Pan-Am Audit.)		Session 2E (Pontalba)	Symposium I (Poydras)
Systematics		Behavior	Island treasures: Caribbean research and conservation
Chair: John M. Bates		Chair: Russell P. Balda	R. Gnam, organizer
14:00	⁴⁷ *Genetic diversity and population structure in Red Knots: an avian cheetah on a global scale? D.M. BUEHLER, A.J. BAKER	⁵³ Learning to be a Pinyon Jay: how young jays relate to their namesake. R.P. BALDA, A. DUNLAP	S061 Island treasures: avian research and conservation in the Caribbean. R. GNAM
14:15	⁴⁸ *Genetic status of Resplendent Quetzal. S. SOLÓRZANO, A. BAKER, K. OYAMA	⁵⁴ Campgrounds enable American Crows to colonize remote native forests: why a landscape view is needed to address a local issue. E.A. NEATHERLIN	S062 Current status of Cuban threatened birds: case studies of conservation programs. M. ACOSTA, L. MUGICA, et al.
14:30	⁴⁹ *Population genetics of Greater Prairie Chickens. J.A. JOHNSON, P. O. DUNN	⁵⁵ *Parasites, plumage, and sexual selection in Satin Bowerbirds. S.M. DOUCET, R. MONTGOMERIE	S063 Avian research, monitoring and conservation in the Dominican Republic. K. WALLACE, E. FERNANDEZ
14:45	⁵⁰ Systematics and biogeography of the genus <i>Turdus</i> . G. VOELKER, S. ROHWER	⁵⁶ The influence of male age and attractiveness on mate guarding behavior in the House Finch. M. BECK, A. DERVAN, G. HILL	S064 BirdLife Jamaica - influencing conservation in Jamaica. C. LEVY, S. DAVIS
15:00	⁵¹ Genetic and phenotypic variation among populations of Galapagos Hawks. J. BOLLMER, T. SANCHEZ, et al.	⁵⁷ American Crow society: mind boggling! C. CAFFREY	S065 Ornithological research and conservation efforts in Puerto Rico. A.G. TOSSAS
15:15	⁵² Implications of genetic diversity in Amazonian birds: Is Amazonia really a museum and not a species pump? J.M. BATES, S.J. HACKETT	⁵⁸ *Cavity nest site selection by Barrow's Goldeneye and Bufflehead in British Columbia. M. EVANS	S066 The West Indian Whistling-Duck and Wetlands Conservation Project: a model for species and wetlands conservation and education. L.G. SORENSON, P.E. BRADLEY

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--**WEDNESDAY LATE AFTERNOON**

	Sess. 3H (Vieux Carré - AB) Morphology Chair: Fritz Hertel	Session 3G (LaSalle - C) Physiology Chair: Noah T. Owen-Ashley	Session 3C (Cabildo) Ecology Chair: Eileen M. Kirsch
16:00	⁹² *Quantifying an enigma: evaluating the efficacy of survey methods for Yellow-billed Cuckoos. H. WOODWARD, S. STOLESON, J. KELLY, D. FINCH	⁸⁹ *Differential immune defense in monogamous and polygynandrous longspurs. N. OWEN-ASHLEY, D. HASSELQUIST, J. WINGFIELD	⁷¹ *Importance of mixed forest for forest birds in Ontario. C. GIRARD, C. FRANCIS, M. DARVEAU, A. DESROCHERS
16:15	⁹³ *Associations of morphology and phylogeny for insectivory in hummingbirds. G. YANEGA, M. RUBEGA	⁹⁰ *Changing patterns of corticosterone secretion play a functional role in migratory fattening. J. LONG, R. HOLBERTON, D. PERKINS	⁷² Avifaunal community changes in a lowland tropical rainforest: 20-year changes at the La Selva Biological Station, Costa Rica. B. SIGEL, T. SHERRY, B. YOUNG
16:30	⁹⁴ The automated balance system in birds. F. HERTEL, K. CAMPBELL	⁹¹ *Stable isotopes in breath and blood indicate nutrient incorporation and utilization in migratory songbirds. D. PODLESAK, S. McWILLIAMS, K. HATCH	⁷³ Breeding birds in riparian wet meadows dominated by reed canary grass or native plants in the upper Midwest. E. KIRSCH
16:45			⁷⁴ Veery song perch selection between islands. C.A. BASSETT, D.J. FLASPOHLER
17:00	Special Lecture: History of Louisiana Ornithology JAMES INGOLD (Time: 17:00-18:00)		⁷⁵ *Trends in Marbled Murrelet inland activity in old-growth forests: Olympic Experimental State Forest, Washington. S.P. HORTON
17:15			⁷⁶ *One if by land, two if by stream: using genetic markers to assess inter-watershed dispersal in American Dippers. K. STRICKLER, K. LOHMAN

18:00 – 21:00 **POSTER SESSION 1 (LaSalle - A): See poster list, page 57.**

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--**WEDNESDAY LATE AFTERNOON**

Sess. 3D (Pan-Am Audit.)		Session 3E (Pontalba)	Symposium I (Poydras)
Systematics		Breeding Biology	Island treasures: Caribbean research and conservation
Chair: Jason A. Mobley		Chair: Brent Burt	R. Gnam, organizer
16:00	77	83	S067
	Phylogenetic relationship of the Spot-winged Falconet in the family Falconidae using molecular data. M. BECHARD, J. SARASOLA, A. HELBIG	Does nest predation threat contribute to colonial nesting in Blue-tailed Bee-eaters? D. BURT, P. COULTER, H. YUAN, S. SHEN	A research and training program for conservation of wintering Kirtland's Warbler and associated species in the Bahamas. E. CAREY, J. WUNDERLE, Jr., D. EWERT
16:15	78	84	S068
	Comparative phylogeography of <i>Motacilla alba</i> and <i>Carpodacus erythrinus</i> . A. PAVLOVA, R. ZINK, S. ROHWER	Forest boundary crossing by mobbing understory birds: effects of cover and heterospecific facilitation. K. SIEVING, K. MAUTE, T. CONTRERAS	The status of resident and migrant bird communities in Cuban ecosystems. H. ALONSO, A. SOSA, et al.
16:30	79	85	S069
	Explaining rapid radiations: a test using the birds of paradise. J. CRACRAFT, J.A. FEINSTEIN	Behavior of breeding American Avocets: diurnal or nocturnal? M. JOHNSON, J. BECKMANN, L. ORING	Status and conservation of seabirds in the Caribbean. A.M. HAYNES-SUTTON, A. DEL NEVO, et al.
16:45	80	86	S070
	Phylogenetic species of the Fox Sparrow. A.E. KESSEN, R.M. ZINK	Effects of prey biomass on the mating strategy of Bicknell's Thrush. A. STRONG, C. RIMMER, K. McFARLAND	Status and conservation of the family Psittacidae in the West Indies. J. WILEY, R. GNAM, et al.
17:00	81	87	S071
	*Molecular phylogenetics and plumage convergence in the <i>Ramphastos</i> toucans. J.D. WECKSTEIN	Do more aggressive parents produce larger goslings? M. HERZOG, J. SEDINGER	The role of the non-professional in Caribbean ornithology. C. WARDLE, K. WALLACE
17:15	82	88	S072
	Evolution of microsatellites in the adaptive radiation of Hawaiian honeycreepers. L. EGGERT, J. BEADELL, A. McCLUNG, R. FLEISCHER	The occurrence and evolution of cooperative breeding among the diurnal raptors. R. KIMBALL, P. PARKER, J. BEDNARZ	The challenge for future research and conservation efforts in the Caribbean. H.A. RAFFAELE

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--THURSDAY MORNING

	Symp. J (Vieux Carré - A) 100 years of bird banding in N. A. J. Tautin et al., organizers.	Sess. 4H (Vieux Carré - B) Census methods Chair: Kathryn L. Purcell	Session 4B (LaSalle - BC) Systematics Chair: Robert M. Zink
10:30	S073 Introductory remarks. Symposium organizers	127 The North American Raptor Monitoring Strategy M. FULLER, K. BATES	95 *Has temporal segregation led to sympatric divergence in Band-rumped Storm-Petrels? A. SMITH, M. BOLTON, V. FRIESEN
10:45	S074 The early history of bird banding in North America. J. JACKSON	128 Sample size adequacy for monitoring birds in California oak woodlands using point counts K.PURCELL, S.MORI, M.CHASE	96 *Species limits and phylogeography of southern hemisphere gulls. A. GIVEN, A.BAKER
11:00	S075 The roles and contributions of banding organizations to the North American bird banding program. L. METRAS, S. MORRIS, B. DALE	129 Estimating density from point-count surveys: theory with applications G. FARNSWORTH, S. SHRINER, K. POLLOCK, T. SIMONS, J. SAUER, J. NICHOLS	97 The role of mitochondrial DNA studies in elucidating avian subspecies R.M. ZINK
11:15	S076 Bird banding and the study of migration F. R. MOORE	130 How closely do we estimate numbers of birds? controlled measure of interobserver error in counting birds R. HYLTON, P. FREDERICK, J. HEATH	98 Microsatellite genetic variation across a manakin hybrid zone T. YURI, N. BHAGABATI, M. BRAUN
11:30	S077 From individual behavior observations to broadly applied premises: why bird banding has become THE essential tool in avian behavioral ecology studies M. V. McDONALD	131 Trend estimation using a linear model. J. BART, B. COLLINS, R. MORRISON	99 *A first look at genetic differentiation across the Solomon Archipelago: Do genetics and morphology concur? C. SMITH and C. FILARDI
11:45	S078 How have banding and marking helped us understand the habitat ecology of birds? J. BRAUN, S. SCHLOSSBERG, C. BLOOD, J. HOOVER	132 Monitoring Red-shouldered Hawk populations: evaluation of available data and the potential for improved approaches J. GEHRING, J. BEDNARZ, M. McCRARY	100 *Biogeography and plumage divergence in Monarch Flycatchers of the Solomon Archipelago C. FILARDI and C. SMITH
12:00	S079 The role of bird banding in the management of migratory bird hunting R. J. BLOHM	133 Point count efficiency and nesting success in marsh birds. D. TOZER	101 A surprise from the Solomons: " <i>Podargus ocellatus inexpectatus</i> (Marbled Frogmouth)" represents a distinct and new genus A. KRATTER, N. CLEERE, et al.
12:15	S080 The role of bird-banding in avian ecotoxicology D. WESELOH, C. HEBERT	134 *Does variation in female arrival date bias count data in migratory songbirds? B. WALKER	102 <i>Amazona xanthops</i> ? taxonomic status of the Yellow-faced Amazon Parrot J. BROWN, T. BIRT, V. FRIESEN

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--THURSDAY MORNING

Session 4C (Cabildo) Breeding Biology	Sess. 4D (Pan-Am Audit.) Conservation	Session 4E (Pontalba) Migration	Sess. 4J (Poydras) Woodpecker biology
Chair: Joel J. Adamson	Chair: Therese M. Donovan	Chair: Richard O. Bierregaard	Chair: Rita D. Dixon
10:30 ¹⁰³ *Sex-biased territoriality, movement patterns, and helping behavior in Rufous-tailed Jacamars G. LANGHAM, J. HITE, J. DaCOSTA	¹¹¹ Area effects in habitat fragmentation studies R.G. MANCKE	¹¹⁹ Pre-migratory movements of Ospreys in southern New England R. BIERREGAARD, M. MARTELL	¹³⁵ Patterns of brood reduction in Red-cockaded Woodpeckers support the egg insurance hypothesis. J. McCORMICK, R. CONNER, D. BURT, D. SAENZ
10:45 ¹⁰⁴ Ecology of African Snipe <i>Gallinago nigripennis</i> : an endemic bird of high altitude wetlands. C. GICHUKI, E. KAIRU, R. OKELO	¹¹² Relationships among North American songbird trends, habitat fragmentation, and landscape occupancy T. DONOVAN, C. FLATHER	¹²⁰ Using plasma metabolite concentrations to index stopover site habitat quality for migrating Western Sandpipers D. SEAMAN, T. WILLIAMS, C. GUGLIELMO	¹³⁶ Influence of burn edges on nesting success of Lewis's Woodpecker. S. ABELE, E. GARTON, V. SAAB
11:00 ¹⁰⁵ *Nest-site preference in Lark Sparrows J.J. ADAMSON	¹¹³ Avian community response to intensive Red-cockaded Woodpecker habitat management D. WOOD, L. BURGER Jr., J. BOWMAN	¹²¹ Use of urban habitats by passage migrants in New Orleans, Louisiana P. YAUKEY	¹³⁷ Reproductive effort and parasite resistance in the Red-bellied Woodpecker. M. SCHRADER
11:15 ¹⁰⁶ *Factors affecting nesting success of American Oystercatchers in North Carolina C. McGOWAN, T. SIMONS, J. CORDES, M. LYONS	¹¹⁴ *Context-dependent edge effects on coastal sage scrub birds T.M. UNFRIED	¹²² Operation RubyThroat: The Hummingbird Project B. HILTON, Jr	¹³⁸ A survival and sensitivity analysis of White-headed Woodpeckers. R.D. DIXON
11:30 ¹⁰⁷ *Water availability and reproductive success in desert birds: the effect of water supplementation on the Black-throated Sparrow S.J. COE	¹¹⁵ Edge effects, landscape context, and regional population viability of Wood Thrushes M. DRISCOLL, T. DONOVAN	¹²³ Endogenous control of migration and influence of photoperiod in an intratropical migrant, the Yellow-green Vireo J. STYRSKY, P. BERTHOLD	¹³⁹ Influence of groundcover on Red-cockaded Woodpecker prey base B. TAYLOR, J. WALTERS
11:45 ¹⁰⁸ *Relative importance of food and nest site availability on breeding habitat selection by Prothonotary Warblers D. DRUMTRA, R. COOPER	¹¹⁶ Spatial autocorrelation of bird populations in fragmented forests: implications for metapopulation dynamics T. WILSON, T. WAITE	¹²⁴ Importance of landscape context in identifying high-use stopover habitat R. DIEHL	¹⁴⁰ Cell-mediated immune development in passerine cavity-nesting birds in the wild. J.M. FAIR, C.E. TALUS
12:00 ¹⁰⁹ *Extra-pair paternity in Golden-winged Warblers: implications of mate choice for hybridization with Blue-winged Warblers. R. FRASER, T. BIRT, R. ROBERTSON	¹¹⁷ Effects of forest frag. on reprod. success, annual returns, and age distrib. of male Ovenbirds in an e. PA landscape, 1989 to 2001 L. GOODRICH, M. BRITTINGHAM, C. VIVERETTE, J. BEDNARZ	¹²⁵ Snowy Owl annual movements: north-south, east-west M. FULLER, N. SMITH, et al.	¹⁴¹ Factors influencing natal dispersal distance in Red-cockaded Woodpeckers. G. PASINELLI, J.R. WALTERS
12:15 ¹¹⁰ *Nest cavity availability and selection in central British Columbia. K. AITKEN, K. MARTIN	¹¹⁸ Riparian songbird abundance a decade after cattle removal from high desert riparian habitats S. EARNST, J. BALLARD, D. DOBKIN	¹²⁶ Factors governing Little Stint migration at Eilat, Israel R. Yosef, P. CHYLARECKI, et al.	¹⁴² Fitness costs of natal dispersal in Red-cockaded Woodpeckers. K. SCHIEGG, G. PASINELLI, J.R. WALTERS

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--THURSDAY AFTERNOON

	Symp. J (Vieux Carré - A)	Sess. 5H (Vieux Carré - B)	Sess. 5F (LaSalle - B)	Sess. 5C (Cabildo)
	100 years of bird banding in N. A.	Conservation	Breeding Biology	Foraging
	J. Tautin et al., organizers.	Chair: Ted Simons	Chair: Leonard A. Freed	Chair: Patrick G. R. Jodice
14:00	S081 Use of bird banding information to investigate disease, safety, and economic issues of birds and their interactions with humans R.G. McLEAN, S.C. GUPTILL	167 Conservation implications for early successional breeding birds on managed pine plantations in southeastern Louisiana. L.M. DUDA, P.C. STOFFER	143 *Factors affecting nest success of songbirds in riparian corridors. R.G. PEAK, F.R. THOMPSON, III	149 Foraging conservatism and plasticity of bird species associated to Polylepis woodlands in the Peruvian Andes: implications for assemblage organization. G.P. SERVAT
14:15	S082 North American bird banding and quantitative population ecology J.D. NICHOLS, J. TAUTIN	168 Avian assemblage composition and diversity of grassland birds wintering in northern Mexico: influence of land management practices. M. DESMOND, A. LAFON, F. CHAVEZ-RAMIREZ	144 *Individual quality and experimental increases in reproductive effort affect primary and acquired immunity in Tree Swallows D.R. ARDIA	150 Impacts of herbicides and fertilizers on quail chick food supplies and growth rates. J. BROUSSARD, J. DUGUAY, J. YEISER
14:30	S083 The role of banding in bird population monitoring C.M. FRANCIS	169 Stable isotopes provide evidence for poor Northern Pintail production on the Canadian Prairies. C. HEBERT, L. WASSENAAR, K. HOBSON	145 *Nest desertion in response to partial clutch loss: a manipulative study J. JOHNSTON	151 Variability in parental effort of Black-legged Kittiwakes as a consequence of prey resources, time-activity budgets. P. JODICE, D. ROBY
14:45	S084 Bird banding and the restoration of depleted and extirpated populations S.A. NESBITT	170 Avian response to nutrient loading in an oligotrophic wetland G.E. CROZIER, D.E. GAWLIK	146 *Parentage and parental effort in Blue-tailed Bee-eaters. P. COULTER, D. BURT, H. YUAN, L. WANG	152 European Starlings prefer the fruits of invasive plants. N. LaFLEUR
15:00	S085 The role of banding in promoting an international perspective to migratory bird conservation. B.A. ANDRES	171 Development of a strategy for adaptive harvest management of American Black Ducks. C.J. FONNESBECK, M.J. CONROY, N.L. ZIMPFER	147 Breeding biology of Swainson's Warblers in a managed South Carolina bottomland. J.L. THOMPSON, R. LANCIA, J. GERWIN,	153 Distribution of foraging shearwaters with respect to the inner front of the SE Bering Sea. J. JAHNCKE, K. HYRENBACH, et al.
15:15	S086 A look to the future of bird banding in North America. D.F. DeSANTE	172 Forest bird communities on managed and unmanaged landscapes in the S Appalachians. T. SIMONS	148 Molting and breeding decisions in Hawaiian honeycreepers. L. FREED	154 A test of the prey size hypothesis on the numerical response of wading birds in the Everglades. D.E. GAWLIK
15:30	S087 Closing remarks			

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--**THURSDAY AFTERNOON**

Sess. 5D (Pan-Am Audit.)	Sess. 5E (Pontalba)	Sess. 5J (Poydras)	Sess. 5G (LaSalle - C)
Warbler Biology	Migration	Vocalizations	Miscellaneous
Chair: Matthew R. Marshall	Chair: Ronald P. Larkin	Chair: R.L. Curry	Chair: Gary R Hepp
14:00 ¹⁵⁵ Breeding site-fidelity of a migratory songbird: implications for annual survival estimation. M. MARSHALL, DIEFENBACH, WOOD, COOPER	¹⁶¹ "New" migration patterns in Ruby-throated Hummingbirds B. HILTON, R. P. LARKIN	¹⁷³ *Neighbor-stranger discrimination in a suboscine, the Alder Flycatcher. S.F. LOVELL	¹⁷⁹ The overestimation of speciation times in modern birds N. K. JOHNSON, C. CICERO
14:15 ¹⁵⁶ The geography of age ratios in hybridizing warblers. S. ROHWER	¹⁶² Orientation by Canada Geese during fall migration. R.P. LARKIN	¹⁷⁴ *How Nearctic and intratropical migration shape dawn song and morphology in the New World. I. BISSON, B. STUTCHBURY, S. LOUGHEED	¹⁸⁰ Sources of UV variation in museum study skins. M.D. EATON
14:30 ¹⁵⁷ Relative abundance and demography of BTBW in heavily and less deer-browsed northern forests. K. HALL	¹⁶³ Orientation of Chiffchaff, Blackcap and Lesser White-throat on spring migration in Israel R. YOSEF, A. TROCINSKA, P. BUSSE	¹⁷⁵ *Alarm calling in a Sri Lankan mixed-species flock system. E. GOODALE	¹⁸¹ Interpreting immunomodulation in birds: an ecotoxicological context. J. SMITS, G. BORTOLOTTI
14:45 ¹⁵⁸ Habitat characteristics and conservation of Swainson's Warbler nests in bottomland hardwood forests of southeastern Oklahoma M.L. ADAMS	¹⁶⁴ Microbes in the plumage of Neotropical migrants: long distance dispersal of microorganisms? K. E. WILLIAMSON, B.T. LAWRENCE, et al.	¹⁷⁶ Patterns and implications of aberrant singing behaviors of Black-capped and Carolina Chickadees in Illinois. P.C. ENSTROM, E.K. BOLLINGER	¹⁸² A tangerine-scented pheromone in a monogamous seabird. J. HAGELIN, I. JONES, L. RASMUSSEN
15:00 ¹⁵⁹ *Factors influencing double brooding in Black-throated Blue Warblers. L. NAGY, R. T. HOLMES	¹⁶⁵ Sustained travel rates of migrating Western Sandpipers. N. WARNOCK, M. BISHOP, J. TAKEKAWA	¹⁷⁷ Type I song populations in Hermit Warblers: song characteristics, geog. dist. and inter-pop. response. S.W. JANES, L. RYKER	¹⁸³ Landscape analysis of Mexican Spotted Owl nest and roost sites in central Arizona. C.A. MAY, R.J. GUTIÉRREZ
15:15 ¹⁶⁰ Estimates of annual survivorship for Kirtland's Warblers: a case for habitat management on the breeding grounds. C. BOCETTI, P.W. SYKES et al.	¹⁶⁶ Re-sightings of Peregrine Falcons color-banded on the Washington coast. D.E. VARLAND	¹⁷⁸ Mismatched songs and calls among hybridizing Black-capped and Carolina chickadees. R.L. CURRY, L.M. ROSSANO	¹⁸⁴ Species richness in a lowland forest understory of Ecuador: preliminary results from mist nets. J.G. BLAKE, B.A. LOISELLE
15:30			

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--THURSDAY LATE AFTERNOON

Sess. 6I (Vieux Carré - A)		Sess. 6H (Vieux Carré - B)		Sess. 6F (LaSalle-B)		Sess. 6C (Cabildo)	
Miscellaneous		Physiology		Conservation		Evolution	
Chair: Scott Seeby		Chair: Jonathan D. Maul		Chair: Juan E. Martinez-Gomez		Chair: Jennifer Gee	
16:00	²⁰⁷ Avifaunistic variation along a gradient of coffee agroecosystem simplification. C. GORDON	²⁰³ *Teaching an old bird new tricks: Does telomere length increase with age in long-lived birds? M. HAUSSMANN, D. WINKLER, et al.	¹⁹⁷ Piping Plover recolonization potential in the Great Lakes: assessment of historic habitat. E.W. PRICE, F.J. CUTHBERT	¹⁸⁵ *Covey formation contributes to heterospecific pairing in hybridizing California and Gambel's Quail. J. GEE			
16:15	²⁰⁸ Historic vs. current populations of an abundant species: Are there too many Double-crested Cormorants? L.R. WIRES, F.J. CUTHBERT	²⁰⁴ *Cloacal microbial flora in breed. & wintering birds: overall prevalence & relation to cond. index, fluct. asymmetry, habitat. J. MAUL, J. GANDHI, J. FARRIS	¹⁹⁸ The recovery program for the Socorro Dove. J.E. MARTÍNEZ-GÓMEZ, S. STADLER	¹⁸⁶ *Size dimorphism and sexual selection across bird species: a nonlinear relationship. S. QUADER, K. ISVARAN, R. HALE			
16:30	²⁰⁹ Raptor electrocution on power lines: problem assessment, mitigation, and monitoring. R.N. LEHMAN, P.L. KENNEDY, J.A. SAVIDGE	²⁰⁵ Evaluating the effects of selenium on populations of Red-winged Blackbirds and American Robins in southeast Idaho. R. VASTERLING, E. GARTON, J. RATTI	¹⁹⁹ Breeding productivity in shaded coffee plantations: Could plantations have served as refugia in Puerto Rico? J.A. COLLAZO, M.J. GROOM	¹⁸⁷ Making a mimetic nestling: How do African finches (Estrildidae) do it? J.G. SCHUETZ			
16:45	²¹⁰ Feeding strategies of the Loggerhead Shrike: experiments with a wild shrike. S. PRUSAD, FARNSWORTH	²⁰⁶ *Determining the time lag for nutrient incorporation into natal feathers: implications for feather sampling for isotope analysis. J. DUXBURY, G. HOLROYD, K. MUEHLENBACHS		¹⁸⁸ *Evolution of ecological differences: Neotropical tanagers of the genus <i>Tangara</i> (Thraupidae). K. NAOKI, K. BURNS			

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--THURSDAY LATE AFTERNOON

Sess. 6D (Pan-Am Audit.)	Sess. 6E (Pontalba)	Sess. 6J (Poydras)	Sess. 6G (LaSalle - C)
Warbler Biology	Ecology	Shrike Biology	Miscellaneous
Chair: Petra Bohall Wood	Chair: Clinton W. Jeske	Chair: Jonathan Plissner	Chair: William I. Boarman
16:00 ¹⁸⁹ *Seasonal increase in nest predation rates for a ground-nesting warbler. P.K. ROBERTS, P.P. MARRA	¹⁹³ A New Zealand island in change: 21 years of landbird populations affected by succession, predator control, and weather. C.J. RALPH, C. RALPH, T. MATSUMOTO	²¹¹ Cage design and considerations used for releasing the endangered San Clemente Loggerhead Shrikes into the wild. D.L. BRUBAKER, J. TURNER	²⁰⁰ Density and habitat use of a Swainson's Warbler breeding population at Bond Swamp National Wildlife Refuge, Georgia. J.M. MEYERS, E.A. WRIGHT
16:15 ¹⁹⁰ *Core area habitat selection and use within breeding territories of male Cerulean Warblers. J. BARG, J. JONES, R. ROBERTSON	¹⁹⁴ Two decades of change in a coastal scrub community: songbird responses to plant succession and the role of disturbance. A. HOLMES, M. CHASE, et al.	²¹² Post-release survival of captive-reared San Clemente Loggerhead Shrikes: a federally endangered subspecies. E. KERSHNER, D. BRUBAKER, et al.	²⁰¹ Intersexual differences in migratory restlessness of a flocking intercontinental migrant, the Eastern Kingbird. S.E. MABEY
16:30 ¹⁹¹ Factors influencing Cerulean Warbler territory density in southern West Virginia. P.B. WOOD, C. A. WEAKLAND	¹⁹⁵ Swainson's Hawk adaptation to, and dependence on, specific agricultural practices and crop types in California's Central Valley. M.A. BRADBURY	²¹³ Survivorship and productivity of supplementally fed and non-supplementally fed San Clemente Loggerhead Shrikes. J. TURNER, D. BRUBAKER, et al.	²⁰² Nesting and post-fledging ecology of Loggerhead Shrikes in northeastern and central Arkansas. J. NORRIS, C. KELLNER, J. BEDNARZ
16:45 ¹⁹² Evaluating the population status of Ovenbird in Great Smoky Mountains National Park. A.L. PODOLSKY, T. SIMONS, J. COLLAZO	¹⁹⁶ Scale dependency in habitat selection by cavity nesting birds in Fishlake National Forest, Utah. R. SCHULTZ, T. EDWARDS, Jr., G. MOISEN, T. FRESCINO	²¹⁴ Demographic variation and supplementation of the wild population as factors associated with population increases in San Clemente Loggerhead Shrikes. J. PLISSNER, N. WARNOCK, et al.	

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS - - **FRIDAY MORNING**

	Symp. M (Vieux Carré - A) Problems & opportunities in deep phylogenetics	Symp. L (Vieux Carré - B) Conservation & ecology of disturb.-dependent birds	Sess. 7B (LaSalle - BC) Ecology
	J. Harshman & A. Driskell, organizers	F.R. Thompson III & J. Brawn, organizers	Chair: Heather M. Swanson
10:30	S097 Avian phylogenetics from beginning to end and top to bottom: the challenges never change. J. CRACRAFT	S088 Loss of natural disturbances and the decline of early successional birds in the deciduous forests of eastern U.S. and Japan R.A. ASKINS	215 *Survival and habitat use of wild Northern Bobwhite at Camp Robinson Wildlife Demonstration Area. S. FOWLER, J. BEDNARZ, C. KELLNER, M. LEWIS
10:45		S089 Fire cycle and source-sink dynamics of Florida Scrub-Jays on the Lake Wales Ridge. J. FITZPATRICK, G. WOOLFENDEN, R. BOWMAN	216 A 14-year assessment of landscape sensitivity by forest songbirds of Ontario. A. DESROCHERS, V. ST-LOUIS, et al.
11:00	S098 Congruent avian phylogenies from mt and nuclear genes: differences in evolutionary models. D. MINDELL, J. GARCIA-MORENO, M. SORENSON	S090 Effects of fire regime on birds in vegetation communities of the southeastern U.S. R.T. ENGSTROM	217 *The response of ponderosa pine forest birds to differing forest structure along the Colorado Front Range. H. SWANSON, A. CRUZ, J. PRATHER, J. CHACE
11:15	S099 Base composition heterogeneity in avian exons and phylogenetic inference. G. BARROWCLOUGH, J. GROTH, F. BARKER	S091 The role of disturbance in the ecology and conservation of Red-cockaded Woodpeckers. J.R. WALTERS	218 *Habitat partitioning among wintering grassland passerines in a Texas Mid-Coastal Prairie. D. MARX, S. HEJL
11:30	S100 Identifying G+C bias and the effect on phylogeny reconstruction. A. BAKER, O. HADDRATH, T. PATON	S092 Viability of shrubland birds in natural and managed forest habitats in central hardwoods landscapes. A.D. FINK, F.R. THOMPSON, III	219 *Current and presettlement location of closed-canopy forest habitat in Holly Springs National Forest: implications for songbird conservation and fire management S.M. AQUILANI, J.S. BREWER
11:45	S101 Remembering early neornithine evolution, introns versus exons W.S. MOORE	S093 The role of disturbance in the ecology and conservation of the endangered Black-capped Vireo. J. GRZYBOWSKI, C. KIMBALL, et al.	220 *The nature of multiple edge effects on bird distributions. R.J. FLETCHER, Jr., R.R. KOFORD
12:00	S102 Using indel characters to infer phylogeny. J. HARSHMAN	S094 Demographics of Chestnut-sided Warblers in relation to forest disturbance and succession in the Northeast. D.I. KING, R.M. DeGRAAF	221 *Impact of habitat degradation on birds breeding in the life zone of tropical dry forests of southern Jamaica. L. DOUGLAS, T. W. SHERRY, P. VOGEL
12:15	S103 Assessing the phylogenetic information content of the Genbank database: how data mining can inform avian phylogenetics. A. DRISKELL, R. REE, M. SANDERSON	S095 Extirpation of Golden-winged Warblers: habitat loss and/or hybridization? J.L. CONFER	222 *Spatiotemporal variability of breeding birds in an undisturbed northern hardwoods forest. P.J. DORAN, R.T. HOLMES
12:30		S096 How does disturbance affect populations and communities of birds? J.D. BRAUN, S.K. ROBINSON, F.R. THOMPSON III	

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--FRIDAY MORNING

Sess. 7C (Cabildo) Breeding Biology		Sess. 7D (Pan-Am Audit.) Foraging and diet		Sess. 7E (Pontalba) Conservation		Sess. 7J (Poydras) Cowbird biology	
Chair: James W. Rivers		Chair: Dawn A. Sherry		Chair: John M. Marzluff		Chair: Mark E. Hauber	
10:30	²²³ Evaluation of a reproductive index to estimate Dickcissel reproductive success. J. RIVERS, D. ALTHOFF, P. GIPSON, J. PONTIUS	²³¹ Regional variation in the diet of the Ocellated Turkey in the Yucatan Peninsula. S. CALMÉ, E. DUARTE	²³⁹ Nest success and abund. of grassland birds: assessing conserv. value of cultivated lands converted to perennial forage in Saskatchewan. D. McMASTER, S. DAVIS	²⁴⁷ Is host use by sympatric cowbirds random? K. ELLISON			
10:45	²²⁴ Seven year analysis on productivity and nesting success of Thick-billed Parrots. T. MONTERRUBIO-RICO, E ENKERLIN	²³² Are insects an alternative energy source for hummingbirds? an exp, study in Green-backed Firecrowns. MA.J. FERNÁNDEZ J., M.V. LÓPEZ-CALLEJA	²⁴⁰ Measuring spatial scales of avian reproductive success combining MAPS and the USGS Land Cover datasets. P. NOTT, D. DeSANTE	²⁴⁸ *Does offspring sex affect host use by sympatric cowbirds? K. ELLISON			
11:00	²²⁵ Demography of Southwestern Willow Flycatchers in central Arizona. A. WOODWARD, C. PARADZICK, T. McCARTHEY	²³³ Vacant	²⁴¹ Are our national parks safe for nesting birds? J. MARZLUFF, M. LEU	²⁴⁹ *Do BHCO exhibit density-dep. habitat selection in tallgrass prairie landscapes? W. JENSEN, J. CULLY, Jr.			
11:15	²²⁶ *The importance of extreme weather events to the breeding biology of a high-elev. honeycreeper in Hawaii. W. KUNTZ	²³⁴ Flock foraging by wintering wading birds in a Texas coastal marsh. D. SHERRY, F. CHAVEZ-RAMIREZ, R. SLACK	²⁴² Update on the conservation and recovery of the endangered Grenada Dove. D. BLOCKSTEIN, B. RUSK, S. TEMPLE	²⁵⁰ First contact: conspecific social assoc. and species recognition in a brood parasite. M. HAUBER			
11:30	²²⁷ *Group membership dynamism in the cooperatively polyandrous Galápagos Hawk. K. LEVENSTEIN, M. CANNON, et al.	²³⁵ Foraging behavior of birds in an artificially structured tropical habitat: a test of plant preference & behav. plasticity. J.A. ROTENBERG	²⁴³ Current status of the captive release program for the Puerto Rican Parrot (Amazona vittata). T. WHITE, Jr.	²⁵¹ Landscape effects mediate breeding cowbird habitat selection in midwestern forests. C. HOWELL, W. DIJAK , F. THOMPSON III			
11:45	²²⁸ Hatching failure and embryonic mortality within a RCW population in South Carolina: current conditions and traditional constraints. N. JORDAN, D. OTIS, R. COSTA, S. GAUTHREAUX	²³⁶ Covariation between prey abundance and Northern Goshawk fecundity on the Kaibab Plateau, Arizona. S.R. SALAFSKY	²⁴⁴ Struggling out of the bottleneck: recovery of the Puerto Rican Parrot from 1973 to 2000. J. WUNDERLE, N. SNYDER, S. BEISSINGER, J. MEYERS	²⁵² Breeding bio. of brood parasitic cowbirds charact. by parent-offspring and sib-group reconstruction. B. STRAUSBERGER, M. ASHLEY			
12:00	²²⁹ Growth, size and sex of last-laid, last-hatched Tree Swallow offspring. L. JOHNSON, L. WIMMERS, S. CAMPBELL, L. HAMILTON	²³⁷ *Dietary response and demog. in a pop. of Imperial Eagles in a spatially heterogeneous enviro. in Kazakhstan. T. KATZNER, E. BRAGIN, S. KNICK, A. SMITH	²⁴⁵ Developing biological objectives for landbirds in the Colorado Plateau/Southern Rockies C. BEARDMORE	²⁵³ Character shift among sympatric brood parasites: evidence of competition for hosts? J. CHACE			
12:15	²³⁰ 50:50 offspring sex ratios in Savannah Sparrows: a 14-year study. N.T. WHEELWRIGHT. R. SEABURY	²³⁸ Avian insectivory limits herbivorous insects in a Neotropical forest canopy. S. VAN BAEL, J. BRAWN, S. ROBINSON	²⁴⁶ Land use management and songbird diversity in the Adirondack Park, NY. M. GLENNON, W. PORTER	²⁵⁴ Parasite invasion, host demography and extinction risk. P. ARCESE			
12:30							

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--**FRIDAY AFTERNOON**

Symp. N (Vieux Carré - A)		Sess. 8H (Vieux Carré - B)		Sess. 8B (LaSalle - BC)		
Satellite telemetry		Breeding biology		Ecology		
K.D. Meyer, J.A. Coulson & B.A. Millsap, organizers		Chair: Marty L. Leonard		Chair: Paul B. Hamel		
14:00	S104	Satellite telemetry of Alaskan seabirds. S. HATCH, V. GILL, D. DOUGLAS, D. MULCAHY	279	*Consequences of nesting date on nesting success and juvenile survival in White Ibises. J. SEMONES, P. FREDERICK	255	*The importance of southern Appalachian wetlands to breeding birds; the role of beaver. J. BULLUCK
14:15	S105	Habitats used by Prairie Falcons during the non-nesting season. K. STEENHOF, M. FULLER, M. KOCHERT, K. BATES	280	The influence of brood size on parental provisioning and the time to fledging in nestling Northern Mockingbirds. C.G. SIMS, R. L. HOLBERTON	256	*Acadian Flycatchers in Midwestern riparian forests -- local- and landscape-level patterns. M. BAKERMANS, A. RODEWALD
14:30	S106	*Year round movements and habitats of Northern Goshawks breeding in Utah using satellite telemetry. S. SONSTHAGEN, C. WHITE, R. RODRIGUEZ	281	Error and begging by nestling birds. M. LEONARD, A. HORN	257	Microclimate conditions of Burrowing Owl nests in artificial burrow systems. R. BRADY, J. BELTHOFF, C. MOULTON
14:45	S107	Conservation of migratory Golden Eagles in relation to large-scale land use changes in western North America. C. McINTYRE, M. COLLOPY, D. DOUGLAS	282	Are nestlings acting as a cue for modulating the adrenocortical response to stress? C.M. WILSON, R.L. HOLBERTON	258	*Birds of a palm-dominated terra firme forest: the effect of habitat heterogeneity on regional avian diversity. J. W. ARMACOST, Jr.
15:00	S108	Post-fledgling dispersal and important use areas of juvenile and subadult Bald Eagles from west central Florida nests. E. McCONNELL, B. MILLSAP, A. STEFFER	283	Contrasting differences in island and mainland populations of White-winged Fairy-Wrens: a release of sexual selection. M.K. RATHBURN, B. MONTGOMERIE	259	*Invasion of riparian forests by exotic shrubs impacts on nesting birds. K. BORGMANN, A. RODEWALD
15:15	S109	Radio-tracking wintering eagles by satellite in Eastern North America: gee whiz, it's cool to know where they go; but hey, there's more! P. NYE, B. TOWN	284	Life history differences between populations of a Neotropical thrush: nest predation or food limitation? V. FERRETTI, P. LLAMBÍAS, T. MARTIN	260	*Farming for shorebirds: environmental and agricultural predictors of non-breeding habitat use in the Fraser Delta. L.J. OGDEN, D. LANK, S. BITTMAN

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--FRIDAY AFTERNOON

	Sess. 8C (Cabildo)	Sess. 8D (Pan-Am Audit.)	Sess. 8E (Pontalba)	Sess. 8J (Poydras)
	Breeding biology	Vocalizations	Systematics	Disease and parasites
	Chair: Cameron K. Ghalambor	Chair: Paul M. Nolan	Chair: Carla Cicero	Chair: Daniel A. Cristol
14:00	²⁶¹ Extreme variability in Tufted Puffin reproductive performance from 1975 - 2000: the effects of ocean climate. C. GJERDRUM, A. VALLEÉ, et al.	²⁶⁷ Audience effect on Pinyon Jay vocalizations. C. DAHLIN	²⁷³ *The causes of differential rates of molecular evolution in bird mitochondrial DNA. C.C. WITT	²⁸⁵ Epidemic of bill deformities among Black-capped Chickadees and other birds in Alaska. C. HANDEL, K. TRUST, et al.
14:15	²⁶² Nesting habitat of the Aplomado Falcon in Chihuahua, Mexico. A. MACIAS-DUARTE, LAFON-TERRAZAS, A. MONTOYA, R. TAFANELLI	²⁶⁸ Geographic variation in the simple song of the Henslow's Sparrow: evidence for evolutionarily significant units? S. IBARGÜEN, M. WOODREY, D. NELSON, T. WAITE	²⁷⁴ *Phylogenetics and geographic variation of tinkerbirds (<i>Pogoniulus</i>): implications for African biogeography. R.G. MOYLE	²⁸⁶ Do parasites cause reduced reproductive success among late-breeding birds? R.D. DAWSON
14:30	²⁶³ Nest site selection and watershed location influences reproductive success of American Dippers. C.A. MORRISSEY	²⁶⁹ Female choice for song characteristics in the House Finch. P. NOLAN, G.HILL	²⁷⁵ Molecular phylogeny of passerines: study of the Muscicapoidea. A. CIBOIS, J. FEINSTEIN, J. CRACRAFT	²⁸⁷ Mycoplasmal conjunctivitis in wild House Finches: estimating parameters of disease models. C.R. FAUSTINO, E.G. COOCH
14:45	²⁶⁴ The effects of human recreation on American Oystercatcher reproductive success and nesting habitat selection in Georgia. R. GEORGE, S. SCHWEITZER, C. FONNESBECK, B. WINN	²⁷⁰ Vocal differences among Caribbean endemic Adelaide's, Barbuda and St. Lucia Warblers. C. STAICER	²⁷⁶ Mitochondrial perspective on systematics of rosy-finches (<i>Leucosticte</i>). S. DROVETSKI, S. ROHWER	²⁸⁸ Feather-busting bacteria do not degrade feathers on live birds. D.A. CRISTOL, J.L. ARMSTRONG
15:00	²⁶⁵ Effects of cattle grazing on the nesting success of birds in riparian and Gambel oak pastures in southwest Colorado. C. ORTEGA, J. ORTEGA	²⁷¹ Factors influencing mate choice by female Burrowing Owls. P. ARROWOOD, C. FINLEY, B. THOMPSON	²⁷⁷ The role of ecologic diversification in sibling speciation of <i>Empidonax</i> flycatchers: multigene evidence from mtDNA. C. CICERO, N. JOHNSON	²⁸⁹ Host-parasite relationships of the polyandrous Galápagos Hawk: coevolution and ecology. N.K. WHITEMAN, P.G. PARKER
15:15	²⁶⁶ Exploitation of conifer resin by nesting Red-breasted Nuthatches may ameliorate competitive and predatory interactions. C. GHALAMBOR	²⁷² Song ranging in incubating Blue-headed Vireos. E. MORTON, J. HOWLETT, N. KOPYSH	²⁷⁸ A molecular test of the superfamily Muscicapoidea: a minor tear in the tapestry. G. SPELLMAN, G. VOELKER	²⁹⁰ Microbial infection of unincubated avian eggs: a constraint on incubation behavior and hatching patterns? M. COOK, S. BEISSINGER, G. TORANZOS, W. ARENDT

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--**FRIDAY LATE AFTERNOON**

Symp. N (Vieux Carré - A)			Sess. 9H (Vieux Carré - B)			Sess. 9B (LaSalle - BC)		
Satellite telemetry			Breeding Biology			Ecology		
K.D. Meyer, J.A. Coulson & B.A. Millsap, organizers			Chair: James Cox			Chair: James J. Giocomo		
16:00	S ¹¹⁰	Post-fledging movements of Great Egrets from breeding colonies in central Florida. T. BREEN, J. RODGERS Jr.	3 ¹⁵	Variation in nesting success and group size in the Brown-headed Nuthatch. J. COX	2 ⁹¹	*Nest predation on Sabine's Gulls: the influence of alternative prey. I. STENHOUSE, G. GILCHRIST, W. MONTEVECCHI		
16:15	S ¹¹¹	Satellite tracking of eastern population Tundra Swans. S. PETRIE, K. WILCOX	3 ¹⁶	Between-year and between-colony variation in sex-specific provisioning strategies of Adélie Penguins in relation to adult mass, mass change, and access to pack ice. N. NUR, D. AINLEY, et al.	2 ⁹²	*The effects of recreational trail-use on the nesting ecology and behavior of American Robins and Yellow Warblers. W. MERKLE		
16:30	S ¹¹²	Migration and wintering areas of American Bitterns from north-central U.S. as determined by satellite and vhf telemetry, 1998-2001. G. HUSCHLE, J. TOEPFER, D. DOUGLAS	3 ¹⁷	Against the odds: nesting sex ratio variation in Green-rumped Parrotlets. A. BUDDEN, S. BEISSINGER	2 ⁹³	How much is Great Horned Owl predation contributing to limitation of a Swallow-tailed Kite population? J. COULSON		
16:45	S ¹¹³	A study of raptor migration and wintering in the Old World using satellite telemetry. B. MEYBURG, C. MEYBURG	3 ¹⁸	Study design for avian population research: sample size guidelines for detecting patterns in demographic parameters. M. SEAMANS, R. GUTIERREZ	2 ⁹⁴	Predicting Wood Thrush nest success: local habitat versus landscape factors. M. DRISCOLL, T. DONOVAN		
17:00	S ¹¹⁴	*Migratory patterns of North American Peregrine Falcons: the origin factor. M. GAHBAUER, D. BIRD, G. HOLROYD	3 ¹⁹	Annual and seasonal survival of Cerulean Warblers breeding in Ontario, Canada. J. JONES, J. BARG, et al.	2 ⁹⁵	*A preliminary test of the primary nest predator/nest predator diversity hypothesis. K. LEWIS, W. MONTEVECCHI		
17:15	S ¹¹⁵	Transequatorial migration and conservation biology of the Swallow-tailed Kite. K. MEYER	3 ²⁰	Food supplementation and social facilitation affects the sex ratio of Black-legged Kittiwake broods. R. LANCTOT, V. GILL, et al.	2 ⁹⁶	*Trends in carbon flux to seabirds in the Peruvian upwelling. J. JAHNCKE, D. CHECKLEY, G. HUNT		

18:30 – 21:30 **POSTER SESSION 2 (LaSalle - A); See poster list, page 85**

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--FRIDAY LATE AFTERNOON

	Sess. 9C (Cabildo)	Sess. 9D (Pan-Am Audit.)	Sess. 9E (Pontalba)	Sess. 9J (Poydras)
	Behavior	Breeding Biology	Genetics	Foraging
	Chair: Daniel J. Mennill	Chair: Joseph C. Ortega	Chair: Donald C. Dearborn	Chair: Jennifer A. Blakesley
16:00	³⁰³ *Territory defense in tropical birds: are females as aggressive as males? B. FEDY, B. STUTCHBURY	²⁹⁷ The predictability of predation in American Robin nests in southwest Colorado. J. ORTEGA, C. ORTEGA	³⁰⁹ Genetic characteristics of the Northern Goshawk of southeastern coastal Alaska. S. TALBOT, J. GUST, et al.	³²¹ *Dietary analysis of Northern Hawk Owls in interior Alaska. J. SHOOK, M. BECHARD
16:15	³⁰⁴ *Delayed direct benefits as an adaptive advantage of cooperative courtship in the Lance-tailed Manakin. E. DuVAL	²⁹⁸ Productivity and nest site selection of Swainson's Hawks in southeastern Arizona. C. NISHIDA, S. DeSTEFANO, C. BOAL, R. HOBBS	³¹⁰ Genetic similarity among mates in Great Frigatebirds. D. DEARBORN, L. COHEN, A. ANDERS	³²² Effects of summer prescribed fires on taxa richness and abundance of avian and macroinvertebrate populations and associated vegetative changes K. MIX, W. KUVLESKY Jr.
16:30	³⁰⁵ The role of plumage badges on mate and extra-pair choice in American Redstarts. P. KAPPES	²⁹⁹ Could incubation costs drive latitudinal variation in clutch size? A look at variation in incubation periods. C. COOPER, W. HOCHACHKA, A. DHONDT, G. BUTCHER	³¹¹ Identification of genetic structure and natal origins in migrating Sharp-shinned Hawks in North America. J. HULL, D. GIRMAN	³²³ *Factors affecting foraging success of the White-tailed Kite in the wetland habitats of Suisun Marsh, California (1970 - 1971). H. MOHAN, W. IKO, R. STENDELL
16:45	³⁰⁶ *Black and white signals of sex and rank in Black-capped Chickadees. D. MENNILL, S. DOUCET, R. MONTGOMERIE, L. RATCLIFFE	³⁰⁰ Phenotypic variation in reproductive traits of female Eastern Kingbirds: female or site effects? M. MURPHY	³¹² Phylogeny inferred from molecular genetics reveals three origins of brood parasitism in the cuckoos Cuculidae. R. PAYNE, M. SORENSON	³²⁴ *A bioenergetic model of trout predation by Great Blue Herons on the White River in Arkansas. L. HODGENS, J. BEDNARZ, S. BLUMENSHINE
17:00	³⁰⁷ *Dominant male Red Junglefowl test the dominance status of other males. T. PARKER, J. LIGON	³⁰¹ *Ovenbird population dynamics in response to forest management in northern Minnesota. B. MATSSON, G. NIEMI	³¹³ A molecular assessment of the "true" thrushes, Sibley and Ahlquist's Turdinae. J. KLICKA, G. VOELKER	³²⁵ *Analysis of seabird wing shape using relative warp analysis. M. BREWER, L. BALLANCE, F. HERTEL
17:15	³⁰⁸ *Where do you want to eat? a comparison of foraging strategy in patch choice among four syntopic obligate army-ant following bird species. S. HILLMAN	³⁰² Burrowing Owl nesting strategies and nest success in urban versus grassland habitats and among burrow types. D. BERARDELLI, M. DESMOND	³¹⁴ Asymmetric hybridization in Black Ducks and Mallards. R. HARRIGAN, M. SORENSON	³²⁶ Influence of seed abundance and diversity on a wintering Chihuahuan Desert avifauna. S. NIEMELA, M. DESMOND

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--**SATURDAY MORNING**

Sess. 10H (Vieux Carré - AB)		Sess. 10F (LaSalle - B)	Sess. 10G (LaSalle - C)
Conservation		Breeding biology	Forest Ecology
Chair: Gregory S. Butcher		Chair: Ralph S. Hames	Chair: Gerald Niemi
10:30	³⁶⁷ Contamination levels in piscivorous birds in the South San Francisco Bay. C.M. STRONG, T. ADELSBACH	³⁵¹ A test of the heterozygosity theory of mate choice in the Black-throated Blue Warbler. S. BARTOS, M. WEBSTER, R.T. HOLMES	³⁵⁹ Biodiversity distribution of breeding bird communities in forests. G. NIEMI, N. DANZ, et al.
10:45	³⁶⁸ Bird conservation planning for the central mixed-grass physiographic area of Kansas and Nebraska. G.S. BUTCHER	³⁵² Vacant	³⁶⁰ Effects of forest management practices on avian community structure. D. MILES, T. DENNIS
11:00	³⁶⁹ Productivity of the Aplomado Falcon in Chihuahua, Mexico A. MACIAS-DUARTE, A. LAFON-TERRAZAS, A. B. MONTOYA, R. TAFANELLI	³⁵³ *Predation-induced renesting influences maternal and nestling condition. D. MORRIS, J. FAABORG	³⁶¹ Understory bird community in a humid montane forest in Chiapas, Mexico. T. WILL, J. SALAZAR and P. ROCHA
11:15	³⁷⁰ The effects of purple loosestrife (<i>Lythrum salicaria</i>) on wetland birds in northeastern Illinois. J. MADDOX, R. WIEDENMANN	³⁵⁴ Effects of acid rain and forest fragmentation on multiple-year breeding-site occupation by the Wood Thrush. R. HAMES, K. ROSENBERG, et al.	³⁶² Adaptation on islands: crossbills and lodgepole pine. A. SIEPIELSKI, C. BENKMAN
11:30	³⁷¹ Population trends in colonial waterbirds in coastal Louisiana, 1993 - 1999. P. LEBERG, W. VERMILLION, et al.	³⁵⁵ *Effects of habitat quality on the reproductive success of the Brown-headed Nuthatch. L. BROCK, D. BURT, D. COBLE, R. CONNER	³⁶³ Effects of height and vegetation on success of bird nests in maritime forests. S. DeFALCO, C. CHANDLER
11:45	³⁷² Are Cooper's Hawks reducing American Kestrel populations by predation? D. ARDIA, D. BIRD, et al.	³⁵⁶ Mating systems and behaviour of tropical flycatchers. B. STUTCHBURY, E. MORTON, J. QUINN	³⁶⁴ The adaptive surface for western North American Red Crossbills: divergent selection has driven their radiation. C. BENKMAN
12:00	³⁷³ Predation of real and artificial grassland bird nests in the northern mixed-grass prairie: Does patch size influence nest success? S. DAVIS	³⁵⁷ Nestling feeding and attendance rates in cooperatively breeding groups of American Crows. T. WESTON, C. CAFFREY	³⁶⁵ Potential impacts of climate change on forest breeding birds in the southern Appalachians: If you can't stand the heat, get out of the kitchen. D. KIM, D. BUEHLER, E. LINDER, K. FRANZREB
12:15	³⁷⁴ Effects of burn interval on Henslow's Sparrows wintering in southeastern Louisiana pine savannas. C.L. BECHTOLDT, P.C. STOFFER	³⁵⁸ Nesting territories and nest site selection in Pacific and American Golden-Plovers at Nome, Alaska. P. BRUNER, A. BRUNER, R. WINGET	³⁶⁶ *Patterns of ecological and morphological diversity in temperate and tropical woodpeckers. A. STYRING

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--SATURDAY MORNING

Sess. 10C (Cabildo)		Sess. 10D (Pan-Am Audit.)		Sess. 10E (Pontalba)		Symp. O (Poydras)	
Conservation Chair: Nathalie J. Hamel		Migration Chair: David N. Bonter		Ecology Chair: John C. Withey		CIPAMEX J. L. Alcántara Carbajal, organizer	
10:30	327 *Passeriformes trade in Mexico: a challenge for conservation. X. LÓPEZ-MEDELLÍN, E. IÑIGO-ELIAS	335 *Differential migratory timing of male and female Western Sandpipers on the southward migration. A. NIEHAUS, D. LANK, R. YDENBERG	343	Changing patterns in a Black-capped Chickadee population S. SMITH	S116	Research and conservation efforts in Mexico: an overview. M. CERVANTES-ABREGO	
10:45	328 Empirical evidence explaining high avian diversity in the tropics. D. JAMES	336 Effects of blood sampling on survival and fecundity of a Nearctic - Neotropical migratory songbird. T. SILLETT, J. NICHOLS, et al.	344	*Diversity and occurrence of boreal migrant birds in the Choco, Colombia: a migration monitoring program. G. COLORADO, P. SUCERQUIA	S117	The IBA's program in Mexico, current status and reorganization. J. MANUEL GALINDO-JARAMILLO	
11:00	329 *Is there a (by)catch? spatio-temporal overlap of Common Murres and gillnet fishing in Washington. N. HAMEL	337 *Selection of stopover habitat by fall trans-gulf migrant landbirds in the Yucatan Peninsula. J. DEPPE	345	*Relating food availability, diet, and foraging behavior of autumn passerine migrants in Idaho. J. CARLISLE	S118	Assessing the status of bird species in Mexico. P. ESCALANTE, V. NÉQUIZ	
11:15	330 *Landowner influences on birds across rural-to-urban landscapes. C. LEPCZYK	338 *Divergent migration directions in the Great Lakes basin: the result of atmospheric circulation? D. BONTER, S. GAUTHREAU, T. DONOVAN	346	*Do adolescent crows become young urban crows? juvenile dispersal of Crows across a gradient of urbanization. J. WITHEY, J. MARZLUFF	S119	PROAVES: Threatened birds and their habitats in Mexico conservation program. J. ALCANTARA, M. CERVANTES-ABREGO	
11:30	331 *The relative importance of local veg. and landscape pattern to Seattle's native bird communities. R. DONNELLY, J. MARZLUFF	339 *Nutrient reserves of Lesser Scaup during spring migration in the Mississippi Flyway: a test of the spring condition hypothesis. M. ANTEAU, A. AFTON	347	Dispersal of the San Clemente Sage Sparrow. N. MUNKWITZ, T. GEORGE, F. BEAUDRY, D. GARCELON	S120	Implementation of the N.A. Bird Conservation Initiative (NABCI), a model of tri-national integrated cooperation. H. BERLANGA	
11:45	332 *Songbird responses to management of a midwestern riparian floodplain. T. BENSON	340 *Where do YWAR go? genetic markers as a tool to assess connectivity among breeding and wintering grounds. M. BOULET, H. GIBBS, K. HOBSON	348	Are Eurasian Collared-Doves occupying an empty niche in North America? W. HOCHACHKA, M. LaBRANCHE	S121	Avian species conserv. assessment for Mexican birds: an integration of the N.A. avifauna. E. IÑIGO-ELIAS, H. BERLANGA, et al.	
12:00	333 *Effects of management activities on upland nesting waterfowl and American Bitterns. C. ARMOUR	341 *Differential migration among long-distance migratory birds. O. KOMAR, B. O'SHEA	349	Diurnal habitat use by American Woodcock wintering in east Texas. J. DUGUAY, C. BERRY, R. WHITING, Jr.	S122	Improving ornith. communication in Mexico: HUITZIL, J. of Mexican Ornith. and Database of Ornith. R. ORTIZ-PULIDO	
12:15	334 Distribution and abundance of colonial waterbirds nesting in south Louisiana, 2001. T. MICHOT, C. JESKE, J. MAZOUREK, W. VERMILLION	342 *The evolution of migration in the Motacillidae. D. OUTLAW, G. VOELKER	350	Intraspecific territoriality and site fidelity of wintering Willow Flycatchers in Costa Rica. T. KORONKIEWICZ, M. SOGGE, C. VAN RIPER III			

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--**SATURDAY AFTERNOON**

<p>Symp. Q (Vieux Carré - A)</p> <p>Natural climate variability and birds</p> <p>E.A. Schreiber & D. Gemmill, organizers</p>	<p>Symp. P (Vieux Carré - B)</p> <p>Ecology of cavity nesters: keystone processes</p> <p>J. Bednarz, P. Radley, & D. Ripper, organizers</p>	<p>Sess. 11C (Cabildo)</p> <p>Systematics</p> <p>Chair: J.D. Rising</p>
<p>14:00 ^{S134} Major modes of intraseasonal to interannual climate variability: importance for field ornithology. V. KOUSKY</p>	<p>14:00 ^{S123} Cavity nester communities in British Columbia: nest webs, keystone excavators and resource bottlenecks. K. MARTIN</p>	<p>³⁷⁵ Phylogeography of two bird species in the Philippines. A. JONES, R. KENNEDY, R. ZINK</p>
<p>14:45 ^{S135} Marine birds of the southern California current ecosystem: community, population, demographic, and foraging responses to climatic variability. W. SYDEMAN, K. HYRENBACH et al.</p>	<p>14:15 ^{S124} Complexities of snag decay in ponderosa pine: how foraging woodpeckers may influence decay patterns and subsequent nest-site quality. K. FARRIS, S. ZACK</p>	<p>³⁷⁶ Phylogeny and biogeography of tanagers in the genus <i>Tangara</i> (Thraupidae). K. BURNS, K. NAOKI</p>
<p>15:15 ^{S136} Influences of climate oscillations on avian pops. and reproductive success in forests of the Pacific Northwest. M. NOTT, D. DeSANTE, R. SIEGEL, P. PYLE</p>	<p>14:30 ^{S125} Species interactions among tree hole users: Do some species exhibit disproportionately large effects on the community? E. WALTERS, F. JAMES</p>	<p>³⁷⁷ Historical and null hypotheses of bird speciation in the Amazon: New ideas revive an old-fashioned view. M. COHN-HAFT, G. WILLIAMSON</p>
<p>15:40 ^{S137} Trying to monitor a moving target - climate variability and interannual shifts in bird distributions. J. PRICE</p>	<p>14:45 ^{S126} Woodpecker nest sites: the role of fungi and microclimate. J. JACKSON</p>	<p>³⁷⁸ Phylogeny of the Accipitridae. C. GRIFFITHS, J. GROTH, G. BARROWCLOUGH</p>
<p>16:30 ^{S138} Seabird responses to oceanographic variability in the Northern and Southern Hemisphere. W. MONTEVECCHI, R. VEIT</p>	<p>15:00 ^{S127} Persistence of nest cavities in burned forests. V. SAAB, J. DUDLEY, W. THOMPSON</p>	<p>³⁷⁹ Phylogeography of the Ruffed Grouse in North America. P. BRITO, G. BARROWCLOUGH, R. GUTIÉRREZ</p>
<p>16:55 ^{S139} Climate resources for ornithologists. D. GEMMILL</p>	<p>15:15 ^{S128} Who's in holes, what's the supply, and how five small owls fit. F. GEHLBACH</p>	<p>³⁸⁰ Geographic variation in plumage pattern and color in Savannah Sparrows. J.D. RISING, D. A. JACKSON</p>
<p>17:10 ^{S140} Climate variability and bird adaptability: future directions for bird research in relation to climate factors. E. A. SCHREIBER</p>	<p>15:30</p>	

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS--SATURDAY AFTERNON

Sess. 11D (Pan-Am Audit.)	Sess. 11E (Pontalba)	Sess. 11J (Poydras)
Breeding biology	Conservation	Ecology
Chair: Nancy J. Clum	Chair: Felipe Chavez-Ramirez	Chair: Matthias Leu
14:00 ³⁸¹ Breeding biology of Rose-ringed Parakeets in the UK. C. BUTLER	³⁸⁷ Evaluating abundance of Cuban Sandhill Cranes through habitat use patterns and home range on the Isle of Youth, Cuba. F. CHAVEZ-RAMIREZ, X. AGUILERA	³⁹³ The response of songbirds to varying levels and patterns of green-tree retention: an experiment. M. LEU, D. MANUWAL
14:15 ³⁸² Effects of early growth on breeding probability of Black Brant. J. SEDINGER, M. HERZOG, D. WARD	³⁸⁸ Habitat use in Western Bluebirds in California's oak savanna. C. GRAHAM, J. DICKINSON	³⁹⁴ Response of wintering grassland birds to vegetation structure and composition. J. RUTH, C. GORDON
14:30 ³⁸³ Between year variation in the timing of breeding by Florida Scrub-Jays: similarities and differences between populations. R. BOWMAN, G. WOOLFENDEN, J. FITZPATRICK	³⁸⁹ Influences of supplementally fed elk on aspen and associated landbirds in and near Jackson Hole, Wyoming. E. ANDERSON, S. ANDERSON	³⁹⁵ Breeding and fall bird use of burned and unburned habitats in southwest Idaho. G. KALTENECKER, A. ROCKLAGE, J. CARLISLE
14:45 ³⁸⁴ Sharp-tailed Sparrow hybridization in New England. W. SHRIVER, T. HODGMAN, P. VICKERY, J. GIBBS	³⁹⁰ Habitat recolonization by permanent-resident birds in a fragmented landscape: a manipulative study. J. GROOM, T. GRUBB, Jr.	³⁹⁶ Rates of predation on artificial and real nests along an urban to rural land use gradient. R. REITSMA, P. MARRA
15:00 ³⁸⁵ Space use, migratory connectivity, and population segregation among Willets breeding in the Western Great Basin. S. HAIG, L. ORING, P. SANZENBACHER, O. TAFT	³⁹¹ Effects of forest degradation on bird communities in the Cockpit Country, a limestone karst region of Jamaica. H. DAVIS, P. VOGEL	³⁹⁷ Habitat-dependent burn response in grassland birds. J. HERKERT
15:15 ³⁸⁶ Survival of juvenile and subadult California Condors released in Arizona. C. WOODS, W. HEINRICH	³⁹² Patterns of species richness in a naturally patchy juniper woodland D. PAVLACKY Jr., S. ANDERSON	³⁹⁸ Reproductive failure in the coastal sage scrub avifauna during an extreme climatic event. D. BOLGER, M. PATTEN
15:30		

TABLE OF SYMPOSIA AND CONTRIBUTED PAPERS -- **SATURDAY LATE AFTERNOON**

	Symp. P (Vieux Carré - B)	Sess. 12C (Cabildo)	Sess. 12D (Pan-Am Audit.)	Sess. 12E (Pontalba)	Sess. 12J (Poydras)
	Ecol. of cavity nesters: keystone processes	Conservation	Behavior	Foraging and diet	Breeding biology
	J. Bednarz, P. Radley, & D. Ripper, organizers	Chair: John Rotenberry	Chair: David B. McDonald	Chair: Margaret Rubega	Chair: Patty McGill
16:00	S ¹²⁹ Fauna from Ferruginous Pygmy Owl and Eastern Screech Owl nest cavities. G. PROUDFOOT, P. TEEL, et al.	399 Bird species of concern in 3 climax upland communities in northern Mississippi: implications for manag. of second-growth forests. D. HOHMAN, S. AQUILANI	404 *Landscape and local effects on snags and cavity-nesting birds in urban areas. T. ROHILA, J. MARZLUFF	409 Why do parrots eat dirt? A study of avian geophagy in Peru. D. BRIGHTSMITH, R. MUÑOZ-NAJAR	414 Hormonal correlates of reproduction and failure to reproduce in Guam Kingfishers. G. FOWLER, P. MCGILL
16:15	S ¹³⁰ Selective logging and time lag in a tropical rainforest: delayed impacts on Southeast Asian woodpeckers. A. STYRING	400 Black death on the prairie: plague, prairie dogs, and Burrowing Owls. M. RESTANI	405 Structural and phaeomelanin coloration indicate parental effort and reprod. success in male EABL. L. SIEFFERMAN, G. HILL	410 Diet of breeding Northern Goshawks in east-central Arizona. A. ROGERS, M. INGRALDI, S. DeSTEFANO	415 Species richness and nesting success of migrants in natural river corridors and anthropogenic woodlands in SE South Dakota. D. GENTRY, D. SWANSON
16:30	S ¹³¹ *Cavity-nesting commun. and requirements of the keystone cavity-excavator, HAWO, in the managed forests of the Olympic Peninsula. D. RIPPER, J. BEDNARZ, D. JULIANO, M. HUSS, D. VARLAND	401 Influence of recreational land use on bird community composition. B. LEONARD, P. LEBERG, C. JESKE	406 Genes and GIS: mating system, phylogeography and habitat use of rosy-finches. D. McDONALD	411 Variation and stereotypy in avian feeding: motor patterns and feeding mechanics in the Ruddy Turnstones. M. RUBEGA, C. GJERDRUM, G. YANEGA	416 Variation in nest attendance and predation rates on cup nesting passerines during the nesting cycle. T. GEORGE, S. ZACK, J. HUTCHINS, J. LIEBEZEIT
16:45	S ¹³² Community interactions associated with Red-cockaded Woodpecker cavities. J. KAPPES, Jr.	402 Direct vs. indirect effects of urban edge on bird distributions in coastal sage-scrub vegetation. J. ROTENBERRY, W. KRISTAN III, M. PRICE, A. LYNAM	407 Reproductive success of three sympatrically breeding loon species in northern Alaska. S. EARNST	412 Why do Humboldt Penguins feed on seashells? C. ZAVALAGA, R. PAREDES	417 Communal laying in the Great Tinamou, <i>Tinamus major</i> . P. BRENNAN
17:00	S ¹³³ Keystone interactions of RCW in southern pine ecosystems. R. CONNER	403 Land use management and songbird diversity in the Adirondack Park, NY. M. GLENNON, W. PORTER	408 Breeding biology and nest site selection of Red-tailed Hawks in southern Arizona. R. HOBBS, S. DeSTEFANO, W. HALVORSON	413 Response by migrating raptors to RoboLure, a mechanical lure for attracting raptors. B. HULL, R. HORN, et al.	418 Effects of landscape composition on breeding bird community structure. C. STUDDS

NOTES

SCIENTIFIC SESSIONS

Presentations marked with an asterisk (*) are eligible for Student Awards.

Tuesday, 24 Sep 2002

Symposium A (Pontalba). Putting wildlife first: contributions to bird conservation on National Wildlife Refuges. P. J. Heglund, K. Granillo & J. Taylor, organizers.

- 09:00 S001 Research on National Wildlife Refuges -- Policy, position, and pragmatism. WAYNE J. KING, *U.S. Fish & Wildl. Serv., Denver, CO.*
- 09:15 S002 Refuge biologists: the other refuge resource. BRIAN McCAFFERY, *Yukon Delta Natl. Wildl. Refuge, Bethel, AK*, and KATHY GRANILLO, *U.S. Fish & Wildl. Serv., Albuquerque, NM.*
- 09:30 S003 The value of cooperative regional research studies on refuges in the Northeast. HAL LASKOWSKI, JANITH TAYLOR, *U.S. Fish & Wildl. Serv., Milton, DE*, JAY HESTBECK, WILLIAM KENDALL and MICHAEL RUNGE, *U.S. Geol. Surv.*
- 10:00 S004 Using national, regional and refuge bird datasets to develop regional goals and objectives for management of refuge lands. JENNIFER CASEY, *U.S. Fish & Wildl. Serv., Errol, NH*, JANITH D. TAYLOR, *U.S. Fish & Wildl. Serv., Newington, NH*; HAL LASKOWSKI, *U.S. Fish & Wildl. Serv., Milton, DE*; and JOHN R. SAUER, *U.S. Geol. Surv., Patuxent Wildl. Res. Center, Laurel, MD.*
- 10:30 S005 Capturing and handling adult American Bittern. WAYNE L. BRININGER, Jr., *U.S. Fish & Wildl. Serv., Tamarac Natl. Wildl. Refuge, Rochert, MN*, GARY HUSCHLE, *U.S. Fish & Wildl. Serv., Agassiz Natl. Wildl. Refuge, Middle River, MN*; JOHN E. TOEPFER, *Soc. Tympanuchus cupido pinnatus Ltd., Waukesha, WI*; and DAVID A. AZURE, *U.S. Fish & Wildl. Serv., Kulm Wetland Manage. Dist., Kulm, ND.*
- 11:00 S006 Contributions to National shorebird and marshbird monitoring efforts on National Wildlife Refuges in USFWS Region 6. SUZANNE FELLOWS, DAVID S. KLUTE, STEPHANIE JONES and ADRIANNA ARAYA, *U.S. Fish & Wildl. Serv., Denver, CO.*
- 11:30 S007 Seabird trends on Alaska Maritime National Wildlife Refuge provide insight into causes of endangered Steller Sea Lion declines. VERNON BYRD, *Alaska Maritime Natl. Wildl. Refuge, Homer, AK*, and THOMAS LOUGHLIN, *Natl. Marine Mammal Lab., Seattle, WA.*
- 12:00 S008 Terrestrial bird communities in riparian habitats of the Bosque del Apache National Wildlife Refuge, NM. JOHN P. TAYLOR, *U.S. Fish & Wildl. Serv., Socorro, NM.*
- 12:30 S009 Winter grassland bird community dynamics in pine savanna habitat: the role of fire. MARK S. WOODREY, *U.S. Fish & Wildl. Serv., Jackson, MS*, and C. RAY CHANDLER, *Dept. Biol., Georgia Southern Univ., Statesboro, GA.*

Symposium B (LaSalle-B). Colonial waterbird biology and conservation. J. Kushlan, organizer.

- 09:00 S010 Planning for colonial waterbird conservation: lessons and opportunities. JAMES A. KUSHLAN, *U.S. Geol. Surv., Smithsonian Environ. Res. Center, Edgewater, MD.*
- 09:15 S011 A framework for developing monitoring and research priorities for colonial waterbirds in Canada. ANTHONY J. GASTON, *Canadian Wildl. Serv., Gatineau, PQ*, and D. V. CHIP WESELOH, *Canadian Wildl. Serv., ON.*
- 09:30 S012 Approaches to waterbird conservation in Mesoamerica and the Caribbean. IAN J. DAVIDSON, *BirdLife Intl., Quito, Ecuador*; ERIC CAREY, *Soc. Conserv. & Study of Caribbean Ornithol., Nassua, Bahamas*; ANGELICA ESTRADA, *BirdLife Intl., Quito, Ecuador*; DAVID WEGE, *BirdLife Intl., Cambridge, UK*; and TERESA ZUNIGA, *Mesoamerican Biol. Corridor, Managua, Nicaragua.*
- 09:45 S013 Challenges and tools for monitoring colonial waterbirds on a continental scale. MELANIE STEINKAMP, *USGS Patuxent Wildl. Res. Cen., Laurel, MD.*
- 10:00 S014 Conservation status assessment of North American colonial waterbirds. KATHARINE C. PARSONS and ALEXANDRA L. WILKE, *Manomet Center for Conservation Sciences, Manomet, MA.*
- 10:15 S015 Colonial waterbirds and aquaculture. ALBERT P. GAUDÉ, *Louisiana State Univ.,*

SCIENTIFIC SESSIONS--TUESDAY

- Res. and Exten., Belle Chasse, LA; and D. TOMMY KING, USDA/WS, Nat. Wildl. Res. Cntr., MS State Univ., MS.*
- 10:30 S016 Conservation and management of abundant colonial waterbirds: a double-edged sword. FRANCESCA CUTHBERT and LINDA WIRES, *Dept. Fish. & Wildl., Univ. Minnesota, St. Paul, MN.*
- 10:45 S017 Ecosystem-level approach to seabird conservation the California Current. KYRA L. MILLS, WILLIAM J. SYDEMAN, DAVID HYRENBACH and GREGG ELLIOTT, *Point Reyes Bird Observatory, Stinson Beach, CA.*
- 11:00 S018 Seabird-fishery interactions. JULIA K. PARRISH, *School Aquatic & Fish. Sci., Univ. Washington, Seattle, WA.*

Symposium C (Vieux Carré - B). Avian-microbe interactions. Sharon Roberts, organizer.

- 09:00 S019 Sexually transmitted diseases in birds. MICHAEL P. LOMBARDO and PATRICK A. THORPE, *Dept. Biol., Grand Valley State Univ., Allendale, MI.*
- 09:25 S020 *Streptomyces* sp.: microecology of another feather-degrading bacterium. EDWARD H. BURTT, Jr., KRISTEN K. WENGER, *Dept. Zool.*, PATRICIA CELESTINO, ERIN MILLER, NGA NGUYEN and JANN M. ICHIDA, *Dept. Bot., Microbiol., Ohio Wesleyan Univ., Delaware, OH.*
- 09:50 S021 Arthropod-borne encephalitis viruses in birds. MARY C. GARVIN, *Dept. Biol., Oberlin Coll., Oberlin, OH.*
- 10:15 S022 West Nile Virus: an emerging avian disease. PETER P. MARRA, *Smithson. Environ. Res. Center, Edgewater, MD*, and ALAN P. DUPUIS II, *Arbovirus Lab., Wadsworth Center, New York State Dept. Health, Albany, NY.*
- 10:40 S023 A historical perspective of avian diseases in Hawaii. CHARLES VAN RIPER III, *U.S. Geol. Surv., Northern Arizona Univ., Flagstaff, AZ*, CARTER T. ATKINSON, *USGS, Volcano Hawaii*, SANDRA G. VAN RIPER, *Northern Arizona Univ., Flagstaff, AZ*, and WALLACE R. HANSEN, *USGS, Madison, WI.*
- 11:05 S024 Introduced pathogens and persistent bird populations in Hawaii: biocomplexity of an evolving disease system. BETHANY L. WOODWORTH, CARTER T. ATKINSON, DENNIS LAPOINTE, PAUL BANKO, *USGS/BRD*, PATRICK HART, ERIK TWEED, KELLY KOZAR, CARLENE HENNEMEN, TAMI DENETTE, CALEB SPEIGEL, DAN LEASE, AARON GREGOR, *Hawaii Natl. Park, HI*; SUE JARVI, KIARA BANKS, PEGGY FARIAS, *Univ. Hawaii, Hilo, HI*; ROBERT FLEISCHER, DINA FONSECA, LORI EGGERT, EBEN GERING, *Smithsonian Inst., Washington, DC*; MICHAEL SAMUEL, JORGE AHUMADA, *USGS-Natl. Wildl. Health Center, Madison, WI*; ANDREW DOBSON, *Princeton Univ., Princeton, NJ*; and DAVID DUFFY, *Univ. Hawaii, Honolulu, HI.*
- 11:30 S025 Mycoplasmal conjunctivitis in House Finches: analysis of a new and evolving host parasite relationship. SHARON R. ROBERTS and GEOFFREY E. HILL, *Dept. Biol. Sci., Auburn Univ., Auburn, AL.*

Symposium D (Pontalba). Enriching the conceptual basis of bird monitoring schemes. A. McCallum, T. Scott & S. L. L. Gaunt, organizers.

- 14:00 S026 A conservation bioacoustics manifesto. D. ARCHIBALD McCALLUM, *Applied Bioacoustics, Eugene, OR*; THOMAS A. SCOTT, *Ctr. Conserv. Biol., Univ. California, Riverside, CA*; and SANDRA L. L. GAUNT, *Borror Lab. Bioacoustics, Ohio State Univ., Columbus, OH.*
- 14:10 S027 Avian sound recordings, distributed biodiversity databases, and ecological niche modeling: new tools create new functionalities. A. TOWNSEND PETERSON, *Nat. Hist. Mus., Univ. Kansas, Lawrence, KS*; and ADOLFO G. NAVARRO-SIGUENZA, *Facultad de Ciencias, UNAM, Mexico City, Mexico.*
- 14:30 S028 Using bird sounds to identify a species. DONALD E. KROODSMA, *Dept. Biol., Univ. Massachusetts, Amherst, MA.*
- 14:45 S029 Perceptual and cognitive errors on aural surveys: the importance of recording bioacoustic data. THOMAS A. SCOTT, *Ctr. Conserv. Biol., Univ. California, Riverside, CA*; and LAWRENCE ROSENBLUM, *Dept. Psychol., Univ. California, Riverside, CA.*
- 15:15 S030 Vocal signals and noisy habitats: what the bird's ear tells us about acoustic monitoring. BERNARD LOHR, TIMOTHY F. WRIGHT, ROBERT J. DOOLING and DOUGLAS E. GILL, *Dept. Psychol., Univ. Maryland, College Park, MD.*

SCIENTIFIC SESSIONS--TUESDAY

- 15:45 S031 Correcting identification errors and estimating detection probabilities for aural surveys with sound recordings. D. ARCHIBALD McCALLUM, *Applied Bioacoustics, Eugene, OR*; JON BART, SUSAN L. EARNST, *USGS Snake River Fld. Sta., Boise, ID*, KIM BEEMAN, *Engineering Design, Belmont, MA*, BRUCE G. PETERJOHN and KEITH L. PARDIECK, *USGS Patuxent Wildl. Res. Ctr., Laurel, MD*.
- 16:15 S032 Incorporating behavioral ecology data into vocalization-based avian research and monitoring programs. BRETT WALKER, *Sch. Forestry, Univ. Montana, Missoula, MT*.
- 16:30 S033 Conservation bioacoustics: past, present, and future. SANDRA L. L. GAUNT, JILL A. SOHA, *Borror Lab. Bioacoustics, Ohio St. Univ., Columbus, OH*, and JOHN W. FITZPATRICK, *Lab. Ornithol., Cornell. Univ., Ithaca, NY*.

Symposium E (LaSalle - B). Linking physiology, morphology, and ecology in nectar-feeding birds. T. J. McWhorter, J. E. Schondube & D. R. Powers, organizers.

- 13:30 S034 Celebrating Bill Calder's life and contributions to biology and conservation. JORGE E. SCHONDUBE and TODD J. McWHORTER, *Dept. Ecol. Evol. Biol., Univ. Ariz., Tucson, AZ*.
- 13:45 S034b The links between energy, water and behavior in avian nectarivores. TODD J. McWHORTER, *Dept. Ecol. Evol. Biol., Univ. Ariz., Tucson, AZ*; CARLOS MARTINEZ DEL RIO, *Dept. Zool. & Physiol., Univ. Wyoming, Laramie, WY*; and BERRY PINSHOW, *Mitrani Dept. Desert Ecol. and Dept Life Sci., Ben-Gurion Univ. of the Negev, Midreshet Ben-Gurion, Israel*.
- 14:00 S035 How do sunbirds cope with varying nectar concentrations? energy balance and osmoregulation. P. A. FLEMING and S. W. NICOLSON, *Dept. Zool. & Entomol., Univ. Pretoria, Pretoria, South Africa*.
- 14:15 S036 *Protein requirements in hummingbirds: linking laboratory and field information. M. V. LOPEZ-CALLEJA and MA. J. FERNANDEZ, *Dept. de Ecologia, P. Univ. Catolica de Chile, Santiago, Chile*.
- 14:30 S037 Torpor use by hummingbirds: costs and benefits of nocturnal hypothermia. DONALD R. POWERS, *Biol. Dept., George Fox Univ., Newberg, OR*.
- 14:45 S038 Effects of sugar concentration on nectar selection by birds: coevolutionary effects of a physiological mechanism. JORGE E. SCHONDUBE, *Dept. Ecol. Evol. Biol., Univ. Arizona, Tucson, AZ*; and CARLOS MARTINEZ DEL RIO, *Dept. Zool. & Physiol., Univ. Wyoming, Laramie, WY*.
- 15:00 S039 Sexual dimorphism and coevolution: intra- and inter-island studies of a hummingbird - *Heliconia* system. ETHAN J. TEMELES, *Dept. Biol., Amherst Coll., Amherst, MA*; and W. JOHN KRESS, *Dept. Bot., Smithsonian Inst., Washington, DC*.
- 15:15 S040 Confronting asymmetrical studies in the exploitation of mutualisms: the impact of nectar robbers on nectar-feeding birds. REBECCA E. IRWIN, *Inst. Ecol., Univ. Georgia, Athens, GA*.
- 15:30 S041 Of helicopters and hummingbirds: wing morphology and flight in some North American hummingbird species. F. GARY STILES, *Acad. Nat. Sci., Philadelphia, PA and Inst. Cien. Nat., Univ. Nacional de Colombia, Bogotá, Colombia*; DOUGLAS L. ALTSHULER, *Sec. Integrative Biol., Univ. Texas, Austin, TX and Dept. Integrative Biol. Univ. California, Berkeley, CA*; and ROBERT DUDLEY, *Sec. Integrative Biol., Univ. Texas, Austin, TX and Smithsonian Tropical Research Inst., Balboa, Panamá*.
- 15:45 S041b Evolutionary and ecological determinants of avian torpor: a conceptual model. ANDREW McKECHNIE and BARRY G. LOVEGROVE, *Dept. Bot. & Zool., Univ. Natal., South Africa*.

Symposium F (LaSalle - C). The use of ornithology in education. D. J. Watt, organizer.

- 13:00 S042 Opening remarks. DORIS J. WATT, *Dept. Biol., Saint Mary's Coll., Notre Dame, IN*.
- 13:20 S043 Ornithology in K-12 Education. DAVID R. BROWN, *Dept. Ecol. & Evol. Biol., Tulane Univ., New Orleans, LA*.
- 13:40 S044 Experiential learning: teaching field ornithology to undergraduates on Appledore Island. SARA R. MORRIS, *Canisius Coll., Buffalo, NY*; and JULIE C. ELLIS, *Brown Univ., Providence, RI*.
- 14:00 S045 Undergraduate research in ornithology. EDWARD H. BURTT, Jr., *Dept. Zool., Ohio Wesleyan Univ., Delaware, OH*, and JANN M. ICHIDA, *Dept. Bot./Microbiol., Ohio Wesleyan Univ.*

SCIENTIFIC SESSIONS--TUESDAY

- 14:20 S046 Things undergraduate students should know: how to impress grad schools, and how to choose a graduate program in ornithology. OLIVER KOMAR, *Nat. Hist. Mus., Univ. Kansas, Lawrence, KS.*
- 14:40 S047 The Institute for Field Ornithology as an educational resource. JOHN KRICHER, *Dept. Biol., Wheaton Coll., Norton, MA.*
- 15:00 S048 Coordinating an international education program: Migratory Bird Day. SUSAN BONFIELD, *Natl. Fish & Wildl. Found., Silverthorne, CO.*
- 15:20 S049 Summary of Points and Conclusions

Symposium G (Vieux Carré - B). Current issues in bird conservation: the application of sound science to formulate policy decisions. G. W. Winegrad, organizer.

- 13:25 Efforts to Reduce Avian Lead Poisoning HawkWatch International's Wildlife Lead Poisoning Reduction. WENDY SANBORN, *HawkWatch International.*
- 13:50 San Clemente Loggerhead Shrike Recovery: Bombs and Birds. KELLEY BROCK, *U.S. Navy.*
- 14:15 Global Warming and Birds: No Orioles in Baltimore? JEFF PRICE, *American Bird Conservancy, Washington, DC.*
- 14:40 Predator Removal from Bird Breeding Islands: Successful Conservation on 26 Islands in Mexico and Anacapa in S. California. BERNIE TERSHY, *Island Conservation Center for Ocean Health.*
- 15:15 S050 Horseshoe crab over-harvest and shorebirds: comprehensive plans devised. GERALD W. WINEGRAD, *American Bird Conservancy, Washington, DC.*
- 15:45 S051 Impacts of free-roaming cats on birds and other wildlife: the CATS INDOORS program. LINDA WINTER, *American Bird Conservancy, Washington, DC.*
- 16:15 S052 Longline fishing hooks present major threat to albatrosses and other seabirds: solving the problem. MICHAEL PARR, *American Bird Conservancy, Washington, DC.*
- 16:45 S053 Pesticides and birds, a deadly mixture: fashioning solutions. PATTI BRIGHT, *American Bird Conservancy, Washington, DC.*
- 17:15 S054 Avian mortality at communication towers: over 60,000 lit towers threaten birds. GERALD W. WINEGRAD, *American Bird Conservancy, Washington, DC.*
- 17:45 S055 Habitat planning for birds: the North American Bird Conservation initiative. DAVID N. PASHLEY, *American Bird Conservancy, The Plains, VA.*
- 19:00 - 22:00 Opening Reception, Audubon Nature Institute's "Aquarium of the Americas", foot of Canal St. by Canal Place

Wednesday, 25 Sep 2002

- 08:00 Continental Breakfast, Hotel Inter-Continental, Third Floor
- 08:30 Conference Opening, Welcoming Remarks, and Announcements
- 09:00 P1 **Plenary 1 (LaSalle - ABC; and video feed to Pan-Am Audit. for overflow crowd).**
A new view of avian life history evolution applied to parental care, clutch size, and developmental patterns across the world. THOMAS E. MARTIN, *USGS BRD, Montana Coop. Wildl. Res. Unit, Univ. Montana, Missoula, MT.*
- 10:00 Coffee Break, Hotel Inter-Continental, Third Floor
- Symposium H (Poydras). Physiological ecology of migration: how to fly, fast, and feed enroute.**
R. L. Holberton & S. R. McWilliams, organizers.
- 10:30 S056 Regulation of migratory feeding and fattening by the avian brain: a molecular approach. TIMOTHY BOSWELL and DORIS PHILLIPS-SINGH, *Roslin Inst., Roslin, Midlothian, UK.*
- 11:00 S057 Metabolic physiology of birds during migration. CHRISTOPHER G. GUGLIELMO, *Div. Biol. Sci., Univ. Montana, Missoula, MT.*
- 11:30 S058 Nutritional ecology of birds during migration. SCOTT R. McWILLIAMS and BARBARA J. PIERCE, *Dept. Nat. Res. Sci., Univ. Rhode Island, Kingston, RI.*
- 12:00 S059 The role of corticosterone in migratory feeding, fattening and orientation. REBECCA HOLBERTON and JENNIFER LONG, *Dept. Biol. Sci., Univ. Maine, Orono, ME,* and ROLAND SANDBERG, *Dept. Anim. Ecol., Lund Univ., Lund, Sweden.*
- 12:30 S060 The energy costs of flight and our understanding of migration ecology. MARCEL KLAASSEN, *Netherlands Inst. Ecology, Maarssen, The Netherlands,* and ÅKE LINDSTRÖM, *Dept. Anim. Ecology, Lund Univ., Lund, Sweden.*
- Session 1C (Cabildo). Behavior. Peter C. Frederick, chair.**
- 10:30 1 Are dawn vocalization surveys effective for monitoring Northern Goshawk nest occupancy? PATRICIA KENNEDY, *E. Oregon Agri. Res. Center, Oregon State Univ., Union, OR,* SARAH DEWEY, *Bridger-Teton Natl. For., Moran, WY* and ROBERT STEPHENS, *Wyoming Coop. Wildl. Res. Unit, Univ. Wyoming, Laramie, WY.*
- 10:45 2 *Polygyny and extra-pair paternity in a population of Southwestern Willow Flycatchers. TALIMA PEARSON, *Dept. Biol, Northern Arizona Univ., Flagstaff, AZ;* MARY J. WHITFIELD, *Southern Sierra Res. Sta., Weldon, CA;* TAD C. THEIMER and PAUL KEIM, *Dept. Biol., Northern Arizona Univ.*
- 11:00 3 *Habitat-related constraints upon Wood Thrush nest attendance, food delivery rates, and fledging success: a study using infrared miniature video cameras. GARY E. WILLIAMS and PETRA BOHALL WOOD, *USGS BRD West Virginia Coop. Fish & Wildl. Res. Unit and Div. For., West Virginia Univ., Morgantown, WV.*
- 11:15 4 Effect of asynchronous nesting on accuracy of counts of nesting birds. PETER C. FREDERICK, JULIE A. HEATH, *Dept. Wildl. Ecol. & Conserv., Univ. Florida, Gainesville, FL,* and ROB BENNETTS, *USGS Florida-Caribbean Sci. Center, Gainesville, FL.*
- 11:30 5 *Multi-scale analysis of nest predation risk of the Least Bell's Vireo. BONNIE L. PETERSON, *Dept. Biol., San Diego State Univ., San Diego, CA;* BARBARA E. KUS, *USGS, Western Ecol. Res. Center, San Diego, CA;* and DOUGLAS H. DEUTSCHMAN, *Dept. Biol., San Diego State Univ.*
- 11:45 6 *Male parental care and paternity in a double-brooded species with brood division. KARA A. WHITTAKER, *Coll. For. Res., Univ. Washington, Seattle, WA,* KEVIN J. THUSIUS, *Ice Age Park & Trail Foundation, West Bend, WI,* LINDA WHITTINGHAM and PETER DUNN, *Dept. Biol. Sci., Univ. Wisconsin, Milwaukee, WI.*
- 12:00 7 *Hatching success and nestling sex ratio in Black-capped and Carolina Chickadees: do hybridizing chickadees follow Haldane's Rule? KERRI L. CORNELL and ROBERT L. CURRY, *Dept. Biol., Villanova Univ., Villanova, PA.*
- 12:15 8 *An experimental study of parental care under varying food availability. ANDREI L.

SCIENTIFIC SESSIONS--WEDNESDAY

PODOLSKY, THEODORE R. SIMONS and JAIME A. COLLAZO, *North Carolina Coop. Fish & Wildl. Res. Unit, Dept. Zool., North Carolina State Univ., Raleigh, NC.*

Session 1D (Pan-Am Auditorium). Systematics. Robert C. Faucett, chair.

- 10:30 9 Molecular phylogenetics of falconiform birds. MICHAEL J. BRAUN and WALLACE E. HOLZNAGEL, *Lab. Analytical Biol., Nat. Mus. Nat. Hist., Smithsonian Inst., Washington, DC.*
- 10:45 10 Phylogeny of swallows (Hirundinidae) via cytochrome b sequences. FREDERICK H. SHELDON, *Mus. Nat. Sci., Louisiana State Univ., Baton Rouge, LA*; LINDA A. WHITTINGHAM, *Dept. Biol. Sci., Univ. Wisconsin, Milwaukee, WI*, BETH SLIKAS, *Mus. Vert. Zool., Univ. California, Berkeley, CA*; and DAVID W. WINKLER, *Ecol. & Evol. Biol., Cornell Univ., Ithaca, NY.*
- 11:00 11 Phylogeny of the *Geositta* miners (Furnariidae). ZACHARY CHEVIRON, ANGELO CAPPARELLA, *Dept. Biol. Sci. Illinois State Univ., Normal, IL*, and FRANÇOIS VUILLEUMIER, *Dept. Ornithol., Am. Mus. Nat. Hist., New York, NY.*
- 11:15 12 *Biogeography of the South American aridlands: revised species limits and phylogenies help untangle a complex history. ANA LUZ PORZECANSKI, *Am. Mus. Nat. Hist. and Dept. Ecol. Evol. & Env. Biol., Columbia Univ., NY.*
- 11:30 13 A phylogeny of the antshrikes (genus: *Thamnophilus*), elucidating patterns in the evolution of voice. ROBERT C. FAUCETT, *Burke Mus., Univ. Washington, Seattle, WA*, and ROBB T. BRUMFIELD, *Dept. Zool., Univ. Washington, Seattle, WA.*
- 11:45 14 Unraveling variation in the Variable Antshrike. ROBB T. BRUMFIELD, *Dept. Zool., Univ. Washington, Seattle, WA.*
- 12:00 15 Phylogeny and biogeography of the button-quail (family Turnicidae). R. TERRY CHESSER and JOSE TEN HAVE, *Australian Natl. Wildl. Coll., CSIRO, Canberra, Australia.*
- 12:15 16 A preliminary molecular phylogeny of *Buarremon* brush-finches (Emberizidae): plumage does not reflect relationships and complicates biogeographic understanding. CARLOS DANIEL CADENA, *Dept. Biol., Univ. Missouri-St. Louis, St. Louis, MO.*

Session 1E (Pontalba). Breeding Biology. Stephen T. Emlen, chair.

- 10:30 17 Nest building honestly advertises nestling provisioning in male Buff-breasted Wrens. SHARON GILL and BRIDGET J. STUTCHBURY, *Dept. Biol., York Univ., Toronto, ON.*
- 10:45 18 Plumage differences in House Wrens indicate a possible trait under sexual selection. ISABELLA B. R. SCHEIBER, *Dept. Biol. Sci., Univ. at Albany, Albany, NY.*
- 11:00 19 *Weakness of pair bonds indicates social promiscuity in wild Muscovy Ducks. SARAH M. STAI, *Dept. Biol., Univ. Miami, Coral Gables, FL.*
- 11:15 20 Life in a male harem: costs and benefits of polyandrous associations in Wattled Jacanas. STEPHEN T. EMLEN, PETER H. WREGE and NATALIE J. DEMONG, *Dept. Neurobiol. & Behav., Cornell Univ., Ithaca, NY.*
- 11:30 21 *The role of plumage coloration in flocking behavior of wading birds. M. CLAY GREEN and PAUL L. LEBERG, *Dept. Biol., Univ. Louisiana, Lafayette, LA.*
- 11:45 22 Why are drab male House Finches socially dominant to bright males? GEOFFREY E. HILL, *Dept. Biol. Sci., Auburn Univ., AL*; KEVIN J. MCGRAW, *Dept. Neurobiol. & Behavior, Cornell Univ., Ithaca, NY*; ANDREW STOEHR, *Dept. Biol., Univ. California-Riverside, CA*; and RENEE DUCKWORTH, *Biol. Dept., Duke Univ., Durham, NC.*
- 12:00 23 *Black face patterns necessary for pairing in Golden-winged Warblers: a link to their displacement by Blue-winged Warblers through introgression. ELLEN R. LEICHTY, *Dept. Biol. Sci., North Dakota State Univ., Fargo, ND.*
- 12:15 24 Off territory forays and extra-pair mating success of male Acadian Flycatchers. BONNIE E. WOOLFENDEN, BRIDGET J. M. STUTCHBURY, *Dept. Biol., York Univ., Toronto, ON*, and EUGENE S. MORTON, *Smithsonian Inst., Front Royal, VA.*

Session 1G (LaSalle - C). Migration. Jeff P. Smith, chair.

- 10:30 25 *Solving the mystery of the unbanded Peregrine Falcons - a stable isotope exploration of northern Canada. J. M. DUXBURY, *Dept. Renew. Res., Univ. Alberta, Edmonton, AB*; G. L. HOLROYD, *Canadian Wildl. Serv., Environment Canada, Edmonton, AB*, and K. MUEHLENBACHS, *Dept. Earth & Atmospheric Sci., Univ.*

SCIENTIFIC SESSIONS--WEDNESDAY

- Alberta, Edmonton, AB.*
- 10:45 26 *The migration of the Hook-billed Kite. ERNESTO RUELAS INZUNZA, *Pronatura Veracruz, Mexico and Univ. Missouri, Columbia, MO*; LAURIE J. GOODRICH, *Hawk Mountain Sanctuary, Kempton, PA*; STEPHEN W. HOFFMAN, *HawkWatch International, Salt Lake City, UT*, and JORGE MONTEJO DIAZ, *Pronatura Veracruz.*
- 11:00 27 Migration routes, timing, and territory fidelity of Red-tailed Hawks in western North America as determined by satellite telemetry. JEFF P. SMITH and MARK S. VEKASY, *HawkWatch International, Salt Lake City, UT.*
- 11:15 28 Nocturnal bird migration at the Stateline and Vansycle wind-energy projects in Oregon. TODD MABEE and BRIAN A. COOPER, *ABR Inc., Forest Grove, OR.*
- 11:30 29 Mexico to Alaska: spring migration of Dunlin and dowitchers. MARY BISHOP, *Prince William Sound Sci. Center, Cordova, AK*; NILS WARNOCK, *Point Reyes Bird Observ., Stinson, CA*; and JOHN TAKEKAWA, *Biol. Res. Div., USGS, Vallejo, CA.*
- 11:45 30 Landscape movements of Lilac-crowned Parrots and Citreoline Trogons in tropical dry forest. KATHERINE RENTON, ALEJANDRO SALINAS-MELGOZA and JORGE H. VEGA-RIVERA, *Inst. Biol., UNAM, Mexico.*
- 12:00 31 Stable isotope signature of philopatry and dispersal in a migratory songbird. GARY GRAVES, *Natl. Mus. Nat. Hist., Smithsonian Inst., Washington, DC*, CHRISTOPHER ROMANEK and ALEJANDRO RODRIGUEZ NAVARRO, *Savannah River Ecol. Lab., Aiken, SC.*
- 12:15 32 *Using combined stable-hydrogen isotope and band encounter analyses to assess migration patterns of immature Sharp-shinned Hawks. RUTH SMITH, *Dept. Biol., Univ. New Mexico, Albuquerque, NM*; TIMOTHY MEEHAN, *HawkWatch International, Salt Lake City, UT*; and BLAIR WOLF, *Dept. Biol., Univ. New Mexico.*

Session 1H (Vieux Carré - AB). Conservation. Joan L. Morrison, chair.

- 10:30 33 The Swallow-tailed Kite in Texas: a Citizen Science survey and monitoring project. CLIFFORD E. SHACKELFORD, *Texas Parks & Wildl., Austin, TX*; JOSEPH F. HAMRICK, *Temple-Inland Forest, Diboll, TX*; RAYMOND E. BROWN, *U.S. Fish & Wildl. Serv., Austin, TX*; DAWN K. CARRIE, *U.S. For. Serv., New Waverly, TX*; N. ROSS CARRIE, *Raven Environ. Serv., Inc., Huntsville, TX*; and DON R. DIETZ, *Temple-Inland Forest, Diboll, TX.*
- 10:45 34 *Conspecific attraction and the conservation of endangered birds. SCOTT R. SCHLOSSBERG, *Prog. Ecol. & Evol. Biol, Univ. Illinois, Champaign, IL*, and MICHAEL P. WARD, *Illinois Nat. Hist. Surv., Champaign, IL.*
- 11:00 35 *Are conservation priority areas artifacts of sampling? LILIANA M. DAVALOS and SUSHMA REDDY, *Am. Mus. Nat. Hist. and Dept. Ecol., Evol. & Env. Biol., Columbia Univ., New York, NY.*
- 11:15 36 *Conservation needs and habitat use of post-fledgling Barn Owls in Arkansas. PAUL RADLEY and JIM BEDNARZ, *Dept. Biol. Sci., Arkansas State Univ., Jonesboro, AR.*
- 11:30 37 Rate of species loss from Amazonian forest fragments. GONÇALO FERRAZ, GARETH J. RUSSELL, *CERC, Columbia Univ., New York, NY*, PHILIP C. STOUFFER, *Dept. Biol. Sci., Southeastern Louisiana Univ., Hammond, LA*, RICHARD O. BIERREGAARD, *Dept. Biology, Univ. North Carolina, Charlotte, NC*, STUART L. PIMM, *CERC, Columbia Univ.*, and THOMAS E. LOVEJOY, *Smithsonian Inst., Washington, DC.*
- 11:45 38 Local extinctions in Amazonian forest fragments: continued species loss through 20 years post-isolation. PHILIP STOUFFER, *Dept. Biol. Sci., Southeastern Louisiana Univ., Hammond, LA*, and CHERYL STRONG, *San Francisco Bay Bird Obs., Alviso, CA.*
- 12:00 39 Conservation biology of the Buff-breasted Sandpiper in South America. VERENA A. GILL, RICHARD B. LANCTOT, *USGS, Alaska Sci. Center, Anchorage, AK*; DANIEL E. BLANCO, *Wetlands Intl., Buenos Aires, Argentina*; and RAFAEL A. DIAS, *Museu de História Natural, Univ. Católica de Pelotas, Pelotas, RS, Brazil.*
- 12:15 40 The Greater Prairie-Chicken in western Canada: invasion, occupation, extirpation. C. STUART HOUSTON, *Univ. Saskatchewan, Saskatoon, SK.*
- 12:30 Lunch Break; for options see FOOD section, p. 8 above

SCIENTIFIC SESSIONS--WEDNESDAY

Symposium I (Poydras). Island treasures: avian research and conservation in the Caribbean. R. Gnam, organizer.

- 14:00 S061 Island treasures: avian research and conservation in the Caribbean. ROSEMARIE GNAM, *Center Biodiv. & Conserv., Am. Mus. Nat. Hist., New York, NY.*
- 14:15 S062 Current status of Cuban threatened birds: case studies of conservation programs. MARTIN ACOSTA, LOURDES MUGICA, ORRLANDO TORRES, DENNIS DENIS, ARIAM JIMÉNEZ and ANTONIO RODRIGUEZ, *Fac. Biol., Univ. de La Habana, Cuba.*
- 14:30 S063 Avian research, monitoring and conservation in the Dominican Republic. KATE WALLACE and ELADIO FERNANDEZ, *Sociedad Ornitológica Hispaniola, Santo Domingo, Dominican Republic.*
- 14:45 S064 BirdLife Jamaica - influencing conservation in Jamaica. CATHERINE LEVY, *BirdLife Jamaica* and SUZANNE DAVIS, *Nat. Hist. Div., Inst. Jamaica.*
- 15:00 S065 Ornithological research and conservation efforts in Puerto Rico. ADRIANNE G. TOSSAS, *Puerto Rican Ornithol. Soc.*
- 15:15 S066 The West Indian Whistling-Duck and Wetlands Conservation Project: a model for species and wetlands conservation and education. LISA G. SORENSON, *Dept. Biol., Boston Univ., Boston, MA*, and PATRICIA E. BRADLEY, *Grand Cayman, Cayman Islands, BWI.*
- 15:30 Refreshment Break, Hotel Inter-Continental, Third Floor
- 16:00 S067 A research and training program for conservation of wintering Kirtland's Warbler and associated species in the Bahamas. ERIC CAREY, *Dept. Agr., Government of The Bahamas, Botanical Gardens, Nassau, Bahamas*, JOSEPH M. WUNDERLE, Jr., *IITF, U.S. Forest Service*, and DAVID N. EWERT, *Great Lakes Program, The Nature Conservancy.*
- 16:15 S068 The status of resident and migrant bird communities in Cuban ecosystems. HIRAM GONZALEZ ALONSO, ALEJANDRO LLANES SOSA, BARBARA SANCHEZ ORIA, DAYSI RODRIGUEZ BATISTA, ENEIDER PÉREZ MENA, PEDRO BLANCO RODRIGUEZ and RAMONA OVIEDO PRIETO, *Instituto de Ecología y Sistemática, Ministerio de Ciencia, Tecnología y Medio Ambiente de Cuba, La Habana, Cuba.*
- 16:30 S069 Status and conservation of seabirds in the Caribbean. ANN M. HAYNES-SUTTON, *Marshall's Pen, Mandeville, Jamaica*, ADRIAN DEL NEVO, *Applied Ecological Solutions Inc., Rossmoor, CA*, JORGE SALIVA, *U.S. Fish & Wildl. Serv., Puerto Rico*, MARTHA WALSH-McGEHEE, *Saba*, and DAVID WEGE, *BirdLife International, Cambridge, UK.*
- 16:45 S070 Status and conservation of the family Psittacidae in the West Indies. JAMES W. WILEY, *Maryland Coop. Fish & Wildl. Res. Unit, Princess Anne, MD*; ROSEMARIE S. GNAM, *Center for Biodiversity & Conservation, NY*; SUSAN KOENIG, *Jamaica*; C. LYNDON JOHN, *St. Lucia*; XIOMARA GÍLVEZ, *Empresa Nacional Protección de Flora y Fauna, Cuba*; PATRICIA E. BRADLEY, *Cayman Islands*; THOMAS WHITE, *U.S. Fish & Wildl. Serv., Puerto Rico*; and MICHAEL ZAMORE, *Dominica.*
- 17:00 S071 The role of the non-professional in Caribbean ornithology. CAROLYN WARDLE, *Coordinator of the Ornithology Group of the Bahamas National Trust, Bahamas*; and KATE WALLACE, *Dominican Republic.*
- 17:15 S072 The challenge for future research and conservation efforts in the Caribbean. HERBERT A. RAFFAELE, *U.S. Fish & Wildl. Serv. Arlington, VA.*

Session 2C (Cabildo). Breeding Biology. Michael Webster, chair.

- 14:00 41 *Parentage in Wild Turkey nests and its implications for kin selection. ALAN H. KRAKAUER, *Mus. Vert. Zool. and Dept. Integrative Biol., Univ. Cal., Berkeley, CA.*
- 14:15 42 *Clutch size evolution in a Neotropical bird: experimental test of nest predation and individual optimization hypotheses. JENNIFER NESBITT STYRSKY, SCOTT K. ROBINSON, *Dept. Animal Biol., Univ. Illinois, Urbana IL*; and JEFFREY D. BRAWN, *Illinois Nat. Hist. Surv., Champaign, IL.*
- 14:30 43 *Immunocompetence, parentage and MHC in the Red-billed Gull breeding colony, Kaikoura Peninsula, New Zealand. NICOLA L. CHONG, ANDREW D. GIVEN, *Dept. Zool., Univ. Toronto, and Royal Ontario Mus., Toronto, ON*, JAMES A. MILLS, *Corning, NY*, and ALLAN J. BAKER, *Royal Ontario Mus., Toronto, ON.*

SCIENTIFIC SESSIONS--WEDNESDAY

- 14:45 44 *Are there costs to coloniality? nesting density and breeding success in Caspian Terns. MICHELLE ANTOLOS, DANIEL D. ROBY, SCOTT K. ANDERSON and DONALD E. LYONS, *USGS-Oregon Coop. Fish & Wildl. Res. Unit, Dept. Fish. & Wildl., Oregon State Univ., Corvallis, OR.*
- 15:00 45 *Incubation period and immunocompetence: a comparative study. MARIA G. PALACIOS and THOMAS E. MARTIN, *Div. Biol. Sci., Univ. Montana, Missoula, MT.*
- 15:15 46 *Sibling competition and the duration of incubation. JOHN D. LLOYD, *Wildl. Biol. Prog., Univ. Montana, Missoula, MT.*

Session 2D (Pan-Am Auditorium). Systematics. John M. Bates, chair.

- 14:00 47 *Genetic diversity and population structure in Red Knots: an avian cheetah on a global scale? DEBORAH M. BUEHLER and ALLAN J. BAKER, *Royal Ontario Mus. and Dept. Zool., Univ. Toronto, Toronto, ON.*
- 14:15 48 *Genetic status of Resplendent Quetzal. SOFÍA SOLÓRZANO, *I. Ecología, Universidad Nacional Autónoma de México, Mexico*, ALLAN J. BAKER, *Royal Ontario Mus., Toronto, ON*, and KEN OYAMA, *I. Ecología, Universidad Nacional Autónoma de México, Mexico.*
- 14:30 49 *Population genetics of Greater Prairie Chickens. JEFF A. JOHNSON and PETER O. DUNN, *Dept. Biol., Univ. Wisconsin-Milwaukee, Milwaukee, WI.*
- 14:45 50 Systematics and biogeography of the genus *Turdus*. GARY VOELKER, *Barrick Mus., Univ. Nevada Las Vegas, Las Vegas, NV*, and SIEVERT ROHWER, *Burke Mus., Univ. Washington, Seattle, WA.*
- 15:00 51 Genetic and phenotypic variation among populations of Galapagos Hawks. JENNIFER L. BOLLMER, *Dept. Biol., Univ. Missouri-St. Louis, St. Louis, MO*; TANIA SANCHEZ, *Dept. de Biol., Pontificia Universidad Católica del Ecuador (PUCE), Quito, Ecuador*; MICHELLE DONAGHY CANNON, *Dept. Biol. Sci., Arkansas State Univ., State University, AR*; DIDIER SANCHEZ, *PUCE*; BRIAN CANNON, JAMES C. BEDNARZ, *Arkansas State Univ.*; TJITTE DE VRIES, *PUCE*; M. SUSANA STRUVE; and PATRICIA G. PARKER, *Dept. Biol., Univ. Missouri - St. Louis.*
- 15:15 52 Implications of genetic diversity in Amazonian birds: is Amazonia really a museum and not a species pump? JOHN M. BATES and SHANNON J. HACKETT, *Field Mus., Chicago, IL.*

Session 2E (Pontalba). Behavior. Russell P. Balda, chair.

- 14:00 53 Learning to be a Pinyon Jay: how young jays relate to their namesake. RUSSELL P. BALDA and AIMEE DUNLAP, *Dept. Biol. Sci., Northern Arizona Univ., Flagstaff AZ.*
- 14:15 54 Campgrounds enable American Crows to colonize remote native forests: why a landscape view is needed to address a local issue. ERIK A. NEATHERLIN, *Coll. For. Res., Univ. Washington, Seattle, WA.*
- 14:30 55 *Parasites, plumage, and sexual selection in Satin Bowerbirds. STÉPHANIE M. DOUCET and ROBERT MONTGOMERIE, *Dept. Biol., Queen's Univ., Kingston, ON.*
- 14:45 56 The influence of male age and attractiveness on mate guarding behavior in the House Finch. MICHELLE L. BECK, ANNE A. DERVAN and GEOFFREY E. HILL, *Dept. Biol. Sci., Auburn Univ., Auburn, AL.*
- 15:00 57 American Crow society: mind boggling! CAROLEE CAFFREY, *Zool. Dept., Oklahoma State Univ., Stillwater, OK.*
- 15:15 58 *Cavity nest site selection by Barrow's Goldeneye and Bufflehead in British Columbia. MATTHEW R. EVANS, *Centre Wildl. Ecol., Dept. Biol. Sci., Simon Fraser Univ., Burnaby, BC.*

Session 2G (LaSalle - C). Migration. Carol J. Beadmore, chair.

- 14:00 59 Stopover ecology of spring migrating landbirds in Michigan's eastern Upper Peninsula. ROBERT J. SMITH and FRANK R. MOORE, *Dept. Biol. Sci., Univ. Southern Mississippi, Hattiesburg, MS.*
- 14:15 60 Fall stopover habitats of landbirds: use of mature edge-dominated and successional forests. PAUL G. RODEWALD and MARGARET C. BRITTINGHAM, *Ecol. Prog., Pennsylvania State Univ., University Park, PA.*
- 14:30 61 *Habitat use of Gray Catbirds during fall migration at a stopover site in Alabama.

SCIENTIFIC SESSIONS--WEDNESDAY

- JEFFREY W. FARRINGTON and FRANK R. MOORE, *Dept. Biol. Sci, Univ. Southern Mississippi, Hattiesburg, MS.*
- 14:45 62 *Immunological condition of landbird migrants in relation to their energetic condition during spring stopover. JEN C. OWEN and FRANK R. MOORE, *Dept. Biol. Sci., Univ. Southern Mississippi, Hattiesburg, MS.*
- 15:00 63 Fat deposition strategies among high-latitude passerine migrants. ANNA-MARIE BENSON, *Alaska Bird Observatory, Fairbanks, AK,* and KEVIN WINKER, *Univ. Alaska Mus., Fairbanks, AK.*
- 15:15 64 Habitat use by migrating songbirds during stopovers in New Jersey: a radar/GIS study. DAVID S. MIZRAHI and VINCENT J. ELIA, *New Jersey Audubon Soc./Cape May Bird Observ., Cape May Court House, NJ.*

Session 2H (Vieux Carré - AB). Conservation. David W. Steadman, chair.

- 14:00 65 A tool for assigning relative conservation values to habitats on local and regional scales. TOM WILL, *U.S. Fish & Wildl. Serv., Fort Snelling, MN;* CARL KORSCHGEN, *Columbia Environ. Research Center, USGS, Columbia, MO;* TIM FOX and MELINDA KNUTSON, *Upper Midwest Environ. Sci. Center, USGS, La Crosse, WI.*
- 14:15 66 Is my place better than yours? issues in setting geographic conservation priorities. JEFFREY V. WELLS, *Natl. Audubon Soc., Ithaca, NY;* KENNETH V. ROSENBERG, *Cornell Lab. Ornithol., Ithaca, NY,* and TERRELL D. RICH, *US Fish & Wildl. Serv., Boise, ID.*
- 14:30 67 "Instantaneous" vs. protracted extinction events in island birds. DAVID W. STEADMAN, *Florida Mus. Nat. Hist., Univ. Florida, Gainesville, FL.*
- 14:45 68 Habitat use patterns of wintering grassland birds in Chihuahua, Mexico. CESAR MENDEZ-GONZALEZ, *Dept. Fish. & Wildl. Sci., New Mexico State Univ., Las Cruces, NM;* ALBERTO LAFON-TERRAZAS, *Universidad Autonoma de Chihuahua, Mexico;* and ANGEL MONTOYA, *The Peregrine Fund.*
- 15:00 69 Important Bird Areas: a tool for bird conservation. DANIEL K. NIVEN, JEFFREY V. WELLS and JOHN P. CECIL, *Audubon Sci. Office, Ivyland, PA.*
- 15:15 70 Associations of instream flow alterations and land use impacts with bird community structure in a southwestern riparian community. ELISABETH M. AMMON, *Dept. Biol., Univ. Nevada, Reno, NV,* and DAMIAN FAGAN, *The Nature Conservancy's Moab Proj. Office, Moab, UT.*
- 15:30 Refreshment Break, Hotel Inter-Continental Third Floor

Session 3C (Cabildo). Ecology. Eileen M. Kirsch, chair.

- 16:00 71 *Importance of mixed forest for forest birds in Ontario. CAROLINE GIRARD, *For. & Geomatics, Centre de recherche en biologie forestière, Univ. Laval, Québec, PQ,* CHARLES M. FRANCIS, *Bird Studies Canada, Port Rowan, ON,* MARCEL DARVEAU and ANDRÉ DESROCHERS, *For. & Geomatics, Univ. Laval.*
- 16:15 72 Avifaunal community changes in a lowland tropical rainforest: 20-year changes at the La Selva Biological Station, Costa Rica. BRYAN J. SIGEL, THOMAS W. SHERRY, *EE Biol. Dept., Tulane Univ., New Orleans, LA,* and BRUCE E. YOUNG, *NatureServe, Arlington, VA.*
- 16:30 73 Breeding birds in riparian wet meadows dominated by reed canary grass or native plants in the upper Midwest. EILEEN M. KIRSCH, *U.S. Geol. Surv., Upper Midwest Environ. Sci. Center, La Crosse, WI.*
- 16:45 74 Veery song perch selection between islands. C. AUDRA BASSETT and DAVID J. FLASPOHLER, *School For. Res. & Environ., Michigan Tech. Univ., Houghton, MI.*
- 17:00 75 *Trends in Marbled Murrelet inland activity in old-growth forests: Olympic Experimental State Forest, Washington. SCOTT P. HORTON, *Coll. Forest Res., Univ. Washington, Seattle, WA.*
- 17:15 76 *One if by land, two if by stream: using genetic markers to assess inter-watershed dispersal in American Dippers. KATHERINE M. STRICKLER, *Dept. Fish & Wildl., Univ. Idaho, Moscow, ID;* and KIRK LOHMAN, *Upper Midwest Env. Sci. Ctr., USGS, LaCrosse, WI.*

SCIENTIFIC SESSIONS--WEDNESDAY

Session 3D (Pan-Am Auditorium). Systematics. Jason A. Mobley, chair.

- 16:00 77 Phylogenetic relationship of the Spot-winged Falconet in the family Falconidae using molecular data. MARC J. BECHARD, *Dept. Biol., Boise State Univ., Boise, ID*, JOSE H. SARASOLA, *Univ. Nacional de La Pampa, Santa Rosa, Argentina*, and ANDREAS J. HELBIG, *Univ. Greifswald, Kloster, Germany*.
- 16:15 78 Comparative phylogeography of *Motacilla alba* and *Carpodacus erythrinus*. ALEXANDRA PAVLOVA, ROBERT M. ZINK, *Bell Mus. and Dept. Ecol., Evol., & Behav., Univ. Minnesota, St. Paul, MN*; and SIEVERT A. ROHWER, *Burke Mus. and Dept. Zool., Univ. Washington, Seattle, WA*.
- 16:30 79 Explaining rapid radiations: a test using the birds of paradise. JOEL CRACRAFT and JULIE A. FEINSTEIN, *Am. Mus. Nat. Hist., New York, NY*.
- 16:45 80 Phylogenetic species of the Fox Sparrow. ANN E. KESSEN and ROBERT M. ZINK, *Bell Mus., Univ. Minnesota, St. Paul, MN*.
- 17:00 81 *Molecular phylogenetics and plumage convergence in the *Ramphastos* toucans. JASON D. WECKSTEIN, *Dept. Biol. Sci. and Mus. Nat. Sci., Louisiana State Univ., Baton Rouge, LA*.
- 17:15 82 Evolution of microsatellites in the adaptive radiation of Hawaiian honeycreepers. LORI EGGERT, JON BEADELL, ANDREW McCLUNG and ROBERT FLEISCHER, *Dept. Syst. Biol., Natl. Mus. Nat. Hist., Smithsonian Inst., Washington, DC*.

Session 3E (Pontalba). Breeding Biology. Brent Burt, chair.

- 16:00 83 Does nest predation threat contribute to colonial nesting in Blue-tailed Bee-eaters? D. BRENT BURT, PRISCILLA F. COULTER, *Dept. Biol., Stephen F. Austin State Univ., Nacogdoches, TX*, HSIAO-WEI YUAN and SHENG-FENG SHEN, *Dept. For., Natl. Taiwan Univ., Taipei, Taiwan*.
- 16:15 84 Forest boundary crossing by mobbing understory birds: effects of cover and heterospecific facilitation. KATHRYN E. SIEVING, KIMBERLY L. MAUTE and THOMAS CONTRERAS, *Dept. Wildl. Ecol. & Conser., Univ. Florida, Gainesville, FL*.
- 16:30 85 Behavior of breeding American Avocets: diurnal or nocturnal? MATTHEW JOHNSON, JON P. BECKMANN and LEWIS W. ORING, *Dept. Environ. & Res. Sci., Univ. Nevada, Reno, NV*.
- 16:45 86 Effects of prey biomass on the mating strategy of Bicknell's Thrush. ALLAN M. STRONG, *School Nat. Res., Univ. Vermont, Burlington, VT*; CHRIS C. RIMMER and KENT P. McFARLAND, *Vermont Inst. Nat. Sci., Woodstock, VT*.
- 17:00 87 Do more aggressive parents produce larger goslings? MARK P. HERZOG and JAMES S. SEDINGER, *Dept. Environ. & Res. Sci., Univ. Nevada, Reno, NV*.
- 17:15 88 The occurrence and evolution of cooperative breeding among the diurnal raptors. REBECCA T. KIMBALL, *Dept. Zool., Univ. Florida, Gainesville, FL*, PATRICIA G. PARKER, *Dept. Biol., Univ. Missouri - St. Louis, St. Louis, MO*, and JAMES C. BEDNARZ, *Dept. Biol. Sci., Arkansas State Univ., Jonesboro, AR*.

Session 3G (LaSalle - C). Physiology. Noah T. Owen-Ashley, chair.

- 16:00 89 *Differential immune defense in monogamous and polygynandrous longspurs. NOAH T. OWEN-ASHLEY, *Dept. Zool., Univ. Washington, WA*, DENNIS HASSELQUIST, *Dept. Animal Ecol., Lund Univ., Lund, Sweden*, and JOHN C. WINGFIELD, *Dept. Zool., Univ. Washington*.
- 16:15 90 *Changing patterns of corticosterone secretion play a functional role in migratory fattening. JENNIFER A. LONG, REBECCA L. HOLBERTON and DEBORAH E. PERKINS, *Dept. Biol., Univ. Maine, Orono, ME*.
- 16:30 91 *Stable isotopes in breath and blood indicate nutrient incorporation and utilization in migratory songbirds. DAVID W. PODLESACK, SCOTT R. McWILLIAMS, *Nat. Res. Sci., Univ. Rhode Island, Kingston, RI*; and KENT A. HATCH, *Brigham Young Univ., Provo, UT*.

Session 3H (Vieux Carré - AB). Morphology. Fritz Hertel, chair.

- 16:00 92 *Quantifying an enigma: evaluating the efficacy of survey methods for Yellow-billed Cuckoos. HOPE D. WOODWARD, *Dept. Nat. Sci., Western New Mexico Univ., Silver*

SCIENTIFIC SESSIONS--WEDNESDAY

- City, NM; SCOTT H. STOLESON, JEFF KELLY and DEBORAH FINCH, *USDA Rocky Mt. Res. Sta., Albuquerque, NM.*
- 16:15 93 *Associations of morphology and phylogeny for insectivory in hummingbirds. GREGOR YANEGA and MARGARET A. RUBEGA, *Dept. Ecol. Evol. Biol., Univ. Connecticut, Storrs, CT.*
- 16:30 94 The automated balance system in birds. FRITZ HERTEL, *California State Univ., Northridge, CA;* and KENNETH E. CAMPBELL, *Nat. Hist. Mus. Los Angeles Co., Los Angeles, CA.*
- 17:00 -18:00 Special Lecture by James Ingold, "History of Louisiana Ornithology" (Vieux Carré AB)
- 18:00 - 21:00 Poster Session 1 (LaSalle - A). Wine and cheese light hors d'oeuvres**
- 419 Microsatellite analysis of alternative reproductive strategies in a predominantly monogamous columbiform: Mourning Doves. LETITIA M. REICHART, *School Biol. Sci., Washington State Univ., Pullman, WA;* DAWN A. SHERRY, *Dept. Fish. & Wildl., Texas A & M Univ., College Station, TX;* ANTHONY J. NASTASE, *Dept. Biol., Indiana Univ. PA, Indiana, PA;* and DAVID F. WESTNEAT, *School Biol. Sci., Univ. Kentucky, Lexington, KY.*
- 420 The use of color infrared photography as an indicator of primary productivity and invertebrate abundance at migration stopover sites of the Western Sandpiper. ANDREA C. POMEROY, *Centre Wildl. Ecol., Dept. Biol., Simon Fraser Univ., Vancouver, BC,* and ROB W. BUTLER, *Centre Wildl. Ecol. and Canadian Wildl. Serv., Delta, BC.*
- 421 Field-testing cognitive differences between migratory and non-migratory Dark-eyed Juncos: a homing experiment. JEFFREY T. KEISER and DANIEL A. CRISTOL, *Dept. Biol., Coll. William & Mary, Williamsburg, VA.*
- 422 Landscape patterns and wintering grassland birds in the Concho Valley, Texas. DAWN R. MAGNESS, SALLIE J. HEJL and R. NEAL WILKINS, *Dept. Wildl. & Fish. Sci., Texas A&M Univ., College Station, TX.*
- 423 Strategies for conservation of winter habitat of Golden-cheeked Warbler in highlands of Chiapas, Mexico. EFRAIN CASTILLEJOS-CASTELLANOS, *Pronatura Chiapas, Chiapas, México.*
- 424 Breeding outcome of Common Yellowthroat within a river corridor under recreational pressure. CHRISTOPHER D. ANDERSON, *Kansas Coop. Fish & Wildl. Res. Unit, Kansas State Univ., Manhattan, KS;* C. DUSTIN BECKER, *Dept. Hort. For. & Rec. Res., Kansas State Univ;* PHILIP S. GIPSON, *Kansas Coop. Fish & Wildl. Res. Unit, Kansas State Univ.;* BRETT K. SANDERCOCK and DAVID A. RINTOUL, *Div. Biol., Kansas State Univ.*
- 425 Swainson's Thrush survival: at the nest, post-fledging, annual juvenile and adult. JENNIFER D. WHITE, *Div. Biol. Sci., Univ. Missouri, Columbia, MO,* THOMAS GARDALI, DANIEL C. BARTON, *Point Reyes Bird Observ., Stinson Beach, CA,* and JOHN FAABORG, *Div. Biol. Sci., Univ. Missouri.*
- 426 Hatching success and nest-site characteristics of Salton Sea Snowy Plovers. KATHY C. MOLINA, *Nat. Hist. Mus. Los Angeles Co., Los Angeles, CA.*
- 427 The demise of vultures in southern Asia: research and conservation recommendations for Africa. MARK D. ANDERSON, *Dept. Agric., Land Reform, Env. & Cons., Kimberley, South Africa;* PETER J. MUNDY, *Famona, Bulawayo, Zimbabwe;* and MUNIR A. VIRANI, *The Peregrine Fund, Nairobi, Kenya.*
- 428 Observer effort is not equal: spatial and temporal variation in Christmas Bird Count effort corrections. ANDREW FARNSWORTH, *Natl. Audubon Soc., New York, NY,* and WESLEY M. HOCHACHKA, *Lab. Ornithol., Cornell Univ., Ithaca, NY.*
- 429 Holding time effects, due to banding, on migrant birds during fall migration. JEFFREY W. FARRINGTON, *Dept. Biol. Sci., Univ. Southern Miss., Hattiesburg, MS.*
- 430 Patterns in Northern Cardinal plasma cholinesterase enzyme activity and relationship to condition index and fluctuating asymmetry. JONATHAN D. MAUL and JERRY L. FARRIS, *Environ. Sci. Prog., Arkansas State Univ., State University, AR.*
- 431 Dispersal patterns and habitat use of Ferruginous Pygmy-Owls in southern Arizona. RENEE L. WILCOX and MICHAEL F. INGRALDI, *Research Branch, Arizona Game & Fish Dept., Phoenix, AZ.*
- 432 Studies of long distance movements with satellite telemetry. KIRK BATES, MIKE YATES, *Raptor Res. Center, Boise State Univ., Boise, ID,* and MARK FULLER, *U.S. Geol. Surv., For. & Range. Ecosys. Sci. Center, Boise, ID.*
- 433 The effects of the color of light on the magnetic orientation of the Bobolink. ROBERT C.

SCIENTIFIC SESSIONS--WEDNESDAY

- BEASON, *Dept. Biol., Univ. Louisiana, Monroe, LA.*
- 434 Detecting bird populations from an unmanned aerial vehicle. LEONARD G. PEARLSTINE, *Ft. Lauderdale Res. & Edu. Center, Univ. Florida, Davie, FL*; H. FRANKLIN PERCIVAL, *Florida Coop. Fish & Wildl. Res. Unit, Univ. Florida, Gainesville, FL*; AMR ABD-ELRAHMAN, *Dept. Civil & Environ. Eng., Univ. Central Florida, Orlando, FL*; PETER G. IFJU, *Dept. Aerospace Eng., Mech. & Eng. Sci., Univ. Florida, Gainesville, FL*, and BON A. DEWITT, *Dept. Civil Eng., Univ. Florida, Gainesville, FL.*
- 435 Carotenoid plumage reflectance and reproductive success of American Redstarts. BRITNEY M. HEMBA, JEN C. OWEN and ROBERT J. SMITH, *Dept. Biol. Sci., Univ. Southern Mississippi, Hattiesburg, MS.*
- 436 Raptors drowning in farm reservoirs in southern Africa. MARK D. ANDERSON, *Dept. Agric., Land Reform, Env. & Cons., Kimberley, South Africa*; ABRIE W. A. MARITZ, *Raptor Conserv. Group, Olifantshoek, South Africa*; and ENRICO OOSTHUYSEN, *Dept. Agric., Land Reform, Env. & Cons., Springbok, South Africa.*
- 437 Studying bird migration with thermal imaging (TI) and fixed-beam vertically pointing radar (VPR). SIDNEY A. GAUTHREAUX, Jr., CARROLL G. BELSER and JENNY E. MICH, *Dept. Biol. Sci., Clemson Univ., Clemson, SC.*
- 438 Patterns of pre-dawn singing in Buff-breasted Flycatchers. M. ROSS LEIN, *Dept. Biol. Sci., Univ. Calgary, Calgary, AB*; and VALERIE A. HAINES, *Dept. Sociol., Univ. Calgary.*
- 439 Habitat relationships among wintering birds in urban parks. ZACHARY A. KAHN and JOAN L. MORRISON, *Dept. Biol. Trinity Coll., Hartford, CT.*
- 440 Bird and mammal distribution maps: a new resource for Neotropical zoologists. BRUCE E. YOUNG, *NatureServe, Arlington, VA.*
- 441 Effects of bioaccumulative contaminants on intestinal flora of Bald Eagles and domestic chickens. FAITH E. WILEY, H. FURMAN CANTRELL, WILLIAM W. BOWERMAN, *Dept. Environ. Tox., Clemson Univ., Pendleton, SC*, and WILLIAM C. BRIDGES, *Dept. Exp. Stat., Clemson Univ.*
- 442 Evolution of a citation. RICHARD C. BANKS, *USGS-PWRC, U.S. Natl. Mus., Washington, DC.*
- 443 Effects of larval *Protocalliphora* (Diptera: Calliphoridae) on reproductive success of secondary cavity-nesting birds. DARRELL W. POGUE, *Dept., Biol., Univ. Texas, Tyler, TX.*
- 444 Vacant
- 445 Spatial synchrony in bird populations linked to synchronous insect fluctuations and regional climatic variation. JASON JONES, PATRICK J. DORAN and RICHARD T. HOLMES, *Dept. Biol. Sci., Dartmouth Coll., Hanover, NH.*
- 446 Comparing infestation rates of a chigger mite (Acarina: Trombiculidae) on resident and migratory birds in coffee agroecosystems of Chiapas, Mexico. THOMAS V. DIETSCH, *School Nat. Res. & Environ., Univ. Michigan, Ann Arbor, MI.*
- 447 Effects of hunter preference on observed sex and age ratios of harvested Mallards and American Black Ducks in eastern Canada. JEAN-FRANÇOIS GOBEIL, *Natl. Wildl. Res. Center, Canadian Wildl. Serv., Hull, PQ.*
- 448 Selective use of nest-lining materials by Burrowing Owls. MATTHEW DENMAN SMITH and COURTNEY J. CONWAY, *Arizona Coop. Fish & Wildl. Res. Unit, Univ. Arizona, Tucson, AZ.*
- 449 Abundance and conservation status of vultures in the former Soviet Union. TODD KATZNER, *Dept. Biol., Arizona State Univ., Tempe, AZ*, SERGEI SKLYARENKO, *Inst. Zool., Almaty, Kazakhstan.* ALEXANDER GAVASHELISHVILI, *Georgian Center Conserv. Wildl., Tbilisi, Georgia*, MICHAEL McGRADY, *Nat. Res., Ltd., Krems, Austria*, and KEITH BILDSTEIN, *Hawk Mountain Sanctuary, Kempton, PA*
- 450 Phylogeny for species in the family Rallidae, based on mitochondrial and nuclear gene sequences. BETH SLIKAS, *Mus. Vert. Zool., Univ. California, Berkeley, CA*, STORRS L. OLSON and ROBERT C. FLEISCHER, *Smithsonian Inst., Washington, DC.*
- 451 Roost location patterns and roost characteristics of young American Crows. KEVIN J. MCGOWAN, *Cornell Lab. Ornithol., Ithaca, NY*; ANNE B. CLARK, *Dept. Biol., Binghamton Univ., Binghamton, NY*; JENNIFER SENECA, *New York State Dept. Health, Ithaca, NY*; RACHEL CURTIS, *Cornell Lab. Ornithol.*, and DOUGLAS A. ROBINSON, Jr., *Dept. Biol., Binghamton Univ.*
- 452 Stopover migration sites used by Great Lakes' Piping Plovers. VANESSA K. POMPEI, *Conserv. Biol. Prog., Univ. Minnesota, St. Paul, MN*; and FRANCESCA J. CUTHBERT, *Dept. Fish. & Wildl. and Conserv. Biol., Univ. Minnesota, St. Paul, MN.*
- 453 Nesting ecology of grassland birds on reclaimed surface-mined lands. THOMAS P. DIXON and ROEL R. LOPEZ, *Dept. Wildl. & Fish. Sci., Texas A&M Univ., College Station, TX.*
- 454 Recruitment and the spatial organization of Surf Scoter populations during winter in the Strait

SCIENTIFIC SESSIONS--WEDNESDAY

- of Georgia, British Columbia. SAMUEL A. IVERSON, *Centre Wildl. Ecol., Simon Fraser Univ., Burnaby, BC.*
- 455 *The effects of forest fragmentation on post-fledging survival and dispersal of a forest songbird. SCOTT A. RUSH, *Dept. Biol., York Univ., North York, ON.*
- 456 *Patterns of salt marsh use by wading birds in Rhode Island. CAROL L. TROCKI and PETER W. C. PATON, *Dept. Nat. Res. Sci., Univ. Rhode Island, Kingston, RI.*
- 457 Using orientation experiments to determine natal origins of fall migrants at Long Point, Ontario. MARTHA L. ALLEN, *Watershed Ecosys. Grad. Prog., Trent Univ., Peterborough, ON;* ERICA NOL, *Biol. Dept., Trent Univ., Peterborough, ON;* and DAVID HUSSELL, *Ontario Min. Nat. Res., Peterborough, ON.*
- 458 Habitat use and population monitoring of Buff-breasted Sandpipers. CLINTON W. JESKE, WAYNE NORLING, PAUL C. CHADWICK, W. BARROW and S. WILSON, *Nat. Wetlands Res. Center, Lafayette, LA.*
- 459 The response of Black Guillemots to recent warming trends in the western Arctic. GEORGE J. DIVOKY, *Inst. Arctic Biol., Univ. Alaska, Fairbanks, AK.*
- 460 Barred Owl nesting ecology in suburban and rural habitats. ERIC S. HARROLD and RICHARD O. BIERREGAARD, *Dept. Biol., Univ. North Carolina, Charlotte, NC.*
- 461 Nocturnal habitat use by American Woodcock wintering in east Texas. JEFFREY P. DUGUAY, J. R. GLENN and R. MONTAGUE WHITING, Jr., *Arthur Temple Coll. For., Stephen F. Austin State Univ., Nacogdoches, TX.*
- 462 Nest site characteristics and resource partitioning among three dove species in Mason, TX. HEATHER A. MATHEWSON, *Dept. Wildl. & Fish. Sci., Texas A&M Univ., College Station, TX;* T. WAYNE SCHWERTNER, *Texas Parks & Wildl., Mason, TX,* and NOVA J. SILVY, *Dept. Wildl. & Fish. Sci., Texas A&M Univ.*
- 463 Sex and geographic variation in body size of Long-billed Curlews. BRUCE D. DUGGER, *Dept. Fish. & Wildl., Oregon State Univ., Corvallis, OR,* and DENNIS M. FORSYTHE, *Biol. Dept., Citadel, Charleston, SC.*
- 464 *Winter territoriality and site fidelity among California Towhees. LAURYN BENEDICT and WALTER D. KOENIG, *Mus. Vert. Zool. and Dept. Integrat. Biol., Univ. California, Berkeley, CA.*
- 1 Organochlorine pesticide contamination in Nearctic resident birds. JEFF HORVATH, R. GIVEN HARPER, *Dept. Biol., Illinois Wesleyan Univ., Bloomington, IL;* ANGELO CAPPARELLA, *Dept. Biol. Sci., Illinois State Univ., Normal, IL;* JEFF FRICK, *Dept. Chem., Illinois Wesleyan Univ.,* JOHN GERWIN and REBECCA BROWNING, *North Carolina State Mus. Nat. Sci., Raleigh, NC.*
- 1 Genetic diversity and structure in the Gadwall. JEFFREY L. PETERS and KEVIN E. OMLAND, *Dept. Biol. Sci., Univ. Maryland, Baltimore Co., Baltimore, MD.*
- 467 Distribution, abundance, and nesting of California Black Rail in the San Francisco Bay Region in relation to habitat and landscape characteristics. HILDIE SPAUTZ, NADAV NUR and DIANA STRALBERG, *Point Reyes Bird Observ, Stinson Beach, CA.*
- 468 Hermit Thrushes disperse pondberry, an endangered plant species. PAUL B. HAMEL, CARL G. SMITH III, R. MARGARET S. DEVALL and NATHAN M. SCHIFF, *USDA For. Serv., Southern Res. Sta., Stoneville, MS.*
- 469 A long-term study of extrapair paternity in the Splendid Fairy-wren. MICHAEL WEBSTER, *School Biol. Sci., Washington State Univ., Pullman, WA;* KEITH TARVIN, *Dept. Biol., Oberlin Coll., Oberlin, OH;* ELAINA TUTTLE, *Dept. Life Sci., Indiana State Univ., Terre Haute, IN;* and STEPHEN PRUETT-JONES, *Dept. Ecol. & Evol., Univ. Chicago, Chicago, IL.*
- 470 Bluethroats arrive on their breeding grounds with surplus fat stores: test of the Time-Constraint Hypothesis. JEFFREY MOLLENHAUER, FRANK MOORE, *Dept. Biol. Sci., Univ. Southern Mississippi, Hattiesburg, MS;* and ROLAND SANDBERG, *Dept. Animal Ecol., Lund Univ., Lund, Sweden.*
- 471 Avian response to spring burning in the Sierra Nevada. KAREN BAGNE, JOHN ROTENBERRY, *Dept. Biol., Univ. California, Riverside, CA,* and KATHRYN PURCELL, *USDA For. Serv., Sierra Nevada Res. Center, Fresno, CA.*
- 472 *Managing grassland birds on military installations in the eastern United States. JAMES J. GIOCOMO and DAVID A. BUEHLER, *Dept. For., Wild. & Fish., Univ. Tennessee, Knoxville, TN.*
- 473 *Influence of landscape matrix, microclimate, and habitat on wintering birds in riparian forests. KELLY A. ATCHISON, *Environ. Sci. Graduate Prog., Ohio State Univ., Columbus, OH,* and AMANDA D. RODEWALD, *School Nat. Res., Ohio State Univ.*
- 474 *Osteological perspectives on the phylogeny of recent and fossil furnarioids. SANTIAGO

SCIENTIFIC SESSIONS--WEDNESDAY

- CLARAMUNT, *Museo Nacional de História Natural, Montevideo, Uruguay.*
- 475 *Is songbird breeding territory selection influenced by nest predation and brood parasitism risk? KIRSTEN R. HAZLER, *Warnell School For. Res., Univ. Georgia, Athens, GA.*
- 476 *Effects of female condition on reproductive success in Tree Swallows. JACQUELINE K. NOOKER, PETER O. DUNN and LINDA A. WHITTINGHAM, *Dept. Biol. Sci., Univ. Wisconsin-Milwaukee, WI.*
- 477 *Using long-term bird banding data to estimate population trends of migrant landbirds. JASON E. OSENKOWSKI and PETER W. C. PATON, *Dept. Nat. Res. Sci., Univ. Rhode Island, Kingston, RI.*
- 478 *Effects of an intense winter fire on Florida Scrub-Jay habitat use. CHRISTOPHER D. VALLIGNY, ROBERT L. CURRY, *Dept. Biol., Villanova Univ., Villanova, PA,* and GLEN E. WOOLFENDEN, *Archbold Biol. Sta., Venus, FL.*
- 479 Comparative use of longline oyster beds and adjacent tidal flats by shorebirds on Humboldt Bay, California. LINDA M. C. MOORE and MARK A. COLWELL, *Dept. Wildl., Humboldt State Univ., Arcata, CA.*
- 480 Abundance of spring staging Black Brant throughout the Pacific Flyway in relation to eelgrass abundance and site isolation. JEFFREY E. MOORE and JEFFREY M. BLACK, *Dept. Wildl., Humboldt State Univ., Arcata, CA.*
- 481 An experimental comparison of double-observer and removal modeling for estimating bird abundance. DANIEL M. SCHEIMAN, JEFFREY E. MOORE and ROBERT K. SWIHART, *Dept. For. & Nat. Res., Purdue Univ., West Lafayette, IN.*
- 482 ABC's Cats Indoors! Campaign. LINDA WINTER, *American Bird Conservancy, Washington, DC.*
- 483 Prediction of bird community composition based on ecological niche modeling, and implications for biodiversity conservation in the Balsas Basin, Mexico. T. PATRICIA FERIA A., *Dept. Biol., Univ. Missouri-St. Louis, St. Louis, MO,* and A. TOWNSEND PETERSON, *Nat. His. Mus., Univ. Kansas, Lawrence, KS.*
- 484 Tracking local movements of Bonaparte's Gulls on the Niagara River: a radio telemetry study. GLENN C. BARRETT, *Canadian Wildl. Serv., Environment Canada, Burlington, ON;* DAN deROOS, *Lower Great Lakes Fisheries Resources Office, U.S. Fish & Wildl. Serv., Amherst, NY;* CHIP WESELOH, G. E. JOHN SMITH, TANIA HAVELKA, *Canadian Wildl. Serv., Environment Canada, Downsview, ON;* and CYNTHIA PEKARIK, *Canadian Wildl. Serv., Environment Canada, Burlington, ON.*
- 485 Using satellite transmitters to track movements of Herring Gulls from the upper Great Lakes: 1999 - 2002. GLENN C. BARRETT, *Canadian Wildl. Serv., Environment Canada, Burlington, ON;* BRADY POLLOCK, CAROLYN MATKOVICH and CHIP WESELOH, *Canadian Wildl. Serv., Environment Canada, Downsview, ON.*
- 486 Influence of foraging-perch habitat on Bald Eagles in west-central Illinois. KELLY J. MCKAY and GREGORY M. QUARTUCCI, *Midwest Biol. Res. & Monitoring Inst., Hampton, IL.*
- 487 Summary of Red-shouldered Hawk reproductive success along the Upper Mississippi River Valley, 1983 - 1997. KELLY J. MCKAY, *Midwest Biol. Res. & Monitoring Inst., Hampton, IL;* JON W. STRAVERS, *Midwest Raptor Res. Fund, McGregor, IA;* GARY V. SWENSON and CASEY J. KOHRT, *U.S. Army Corps of Engineers, Rock Island Dist., Pleasant Valley, IA.*
- 488 Developmental toxicity of PCBs for first and second generation American Kestrels. KIM J. FERNIE, *Canadian Wildl. Serv., Burlington ON;* JUDIT SMITS, GARY BORTOLOTTI, *Univ. Saskatchewan, Saskatoon, SK;* KEN DROUILLARD, *Univ. Windsor, Windsor, ON;* and DAVID BIRD, *Avian Sci. Conserv. Centre, McGill Univ., Ste. Anne de Bellevue, PQ.*
- 489 *Complex vocalizations and song structure of Wedge-tailed Sabrewings. CLEMENTINA GONZALEZ, JUAN FRANCISCO ORNELAS and LEONOR JIMENEZ; *Dept. Ecol. y Comp. Animal, Inst. Ecologia, AC, Xalapa, Ver., Mexico.*
- 490 *Use of artificial eggs to determine egg losses and predation in a Neotropical passerine. WALTER S. SVAGELJ, MYRIAM E. MERMOZ, VALENTINA FERRETTI and GUSTAVO J. FERNÁNDEZ, *Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina.*
- 491 Phylogenetic analysis of the 13 owl species with a special consideration to the Mimizuku. SHI H. RYU, *Dept. Biol., Kyungpook Natl. Univ., Daegu, Korea;* UI W. HWANG, *Dept. Biol., Teachers Coll., Kyungpook Natl. Univ.,* and HEE C. PARK, *Dept. Biol., Kyungpook Natl. Univ.*
- 492 *Nestling competition of sympatric cowbirds: the role of gape and flange coloration. HOPE R. MCGAHA, *Dept. Zool., Univ. Manitoba, Winnipeg, MB.*
- 493 *Geomorphology, vegetation, and bird community in Atlantic forest fragments. RÔMULO RIBON, *Ecol. Cons. Man. Vida Silv., Univ. Fed. Minas Gerais, Belo Horizonte, MG, Brazil;*

SCIENTIFIC SESSIONS--WEDNESDAY

- MIGUEL ÂNGELO MARINI, *Dept. Zoologia, Univ. Brasília, Brasília, DF, Brazil*, and PAULO DE MARCO Jr., *Depto. Biol. Geral., Univ. Fed. Viçosa, MG, Brazil*.
- 494 *Defining thermoneutrality with a Bayesian model: do open habitat birds have lower critical temperatures than forest species? NATHANIEL E. SEAVY and TOSHINORI OKUYAMA, *Dept. Zool., Univ. Florida, Gainesville, FL*.
- 495 *Effects of incubation behavior on embryo metabolism. CHRISTOPHER R. OLSON, CAROL VLECK and DAVID VLECK, *Dept. Zool & Gen., Iowa State Univ., Ames, IA*.
- 496 Extra-pair fertilization and effective population size in the Song Sparrow. KATHLEEN D. O'CONNOR, AMY MARR and PETER ARCESE, *Dept. Applied Conser. Res., Univ. British Columbia, Vancouver, BC*.
- 497 Shorebirds feeding in mixed flocks in Fracasso Beach, Peninsula Valdés, Argentina. VERÓNICA L. D'AMICO, LUIS O. BALA and M. DE LOS ÁNGELES HERNÁNDEZ, *CENPAT (CONICET) Puerto Madryn, Chubut, Argentina*.
- 498 vacant
- 499 Tail streamer function and sexual selection in the Red-tailed Tropicbird. ALLISON C. VEIT and IAN L. JONES, *Dept. Biol., Memorial Univ. Newfoundland, St. John's, NF*.
- 500 WildSpectra, a new program for real-time display and analysis of bird song. R. HAVEN WILEY, *Dept. Biol., Univ. North Carolina, Chapel Hill, NC*.
- 501 *Reproductive success and nest site selection of Grasshopper Sparrow populations in southern West Virginia. FRANK K. AMMER, *Div. For., West Virginia Univ., Morgantown, WV*, and PETRA BOHALL WOOD, *West Virginia Coop. Fish & Wildl. Res. Unit, BRD/USGS, West Virginia Univ.*
- 502 Begging and provisioning in Common Terns. TASHA E. SMITH and MARTY L. LEONARD, *Dept. Biol., Dalhousie Univ., Halifax, NS*.
- 503 Naturalized parrots in California: is "exotic" becoming "invasive?" KIMBALL L. GARRETT, *Nat. Hist. Mus. Los Angeles Co., Los Angeles, CA*, and KAREN T. MABB, *Dept. Biol. Sci., California Polytechnic Univ., Pomona, CA*.
- 504 *Influence of human and climatic factors on naturalized parrot populations in California: where will parrots become established next? KAREN T. MABB, *Dept. Biol. Sci., California State Polytech. Univ., Pomona, CA*.
- 505 Providing research experience for K-12 teachers: an alternative way to connect to K-12 classrooms. WENDY A. KUNTZ, *Prog. EECB, Dept. Zool., Univ. Hawaii at Manoa, Honolulu, HI*, and DONALD B. YOUNG, *Coll. Edu., Univ. Hawaii at Manoa*.
- 506 *Nest predation strategies: how do Steller's Jays find nests? STACEY VIGALLON and JOHN MARZLUFF, *Coll. For. Res., Univ. Washington, Seattle, WA*.
- 507 *Assessing the impacts of expanding Barred Owl populations on the Northern Spotted Owl in Olympic National Park, Washington. SCOTT A. GREMEL, *Coll. For. Res., Univ. Washington, Seattle, WA*.
- 508 The influence of extra-pair behavior on spatial investment in nest defense. PAUL A. CALLO, *Dept. Biol., Univ. Maryland, College Park, MD*.
- 509 The role of birds and the importance of microsites in the regeneration of south-temperate rainforest. MICHAEL P. MILLESON and KATHRYN E. SIEVING, *Dept. Wildl. Ecol. & Conserv., Univ. Florida, Gainesville, FL*.
- 510 Bird communities and silvicultural systems in a yellow birch-balsam fir ecosystem. MARCEL DARVEAU, CAROLINE GIRARD, *Dep. sc. bois et forêt, Univ. Laval, Quebec, PQ*, JEAN-PIERRE SAVARD, *Serv. can. faune, Quebec, PQ*, and JEAN HUOT, *Dep. biologie, Univ. Laval*
- 511 Effects of clearcutting on the spatial arrangement of breeding bird territories. WENDY K. GRAM, *Oklahoma Mus. Nat. Hist., Univ. Oklahoma, Norman, OK*; PAUL A. PORNELUZI, *Div. Sci. & Math, Central Methodist Coll., Fayette, MO*; JOHN FAABORG, *Div. Biol. Sci, Univ. Missouri, Columbia, MO*, RICK L. CLAWSON and CRAIG D. SCROGGINS, *Missouri Dept. Conserv., Columbia, MO*.
- 512 Avian biodiversity associated with agricultural wetlands in southern Louisiana. JAY V. HUNER and MICHAEL J. MUSUMECHE, *Crawfish Res. Center, Univ. Louisiana at Lafayette, Lafayette, LA*.
- 513 Habitat selection and reproductive success of Ash-throated Flycatchers along a desert environmental gradient. TIMOTHY S. REDMAN, *Dept. Biol., Univ. California, Riverside, CA*.
- 514 Patterns of corticosterone secretion vary with energetic condition in Hermit Thrushes during autumn migration. REBECCA HOLBERTON and JENNIFER LONG, *Dept. Biol. Sci., Univ. Maine, Orono, ME*.
- 515 Phylogeny of the herons of the world. KEVIN G. McCracken, *Inst. Arctic Biol. and Dept.*

SCIENTIFIC SESSIONS--WEDNESDAY

- Biol. & Wildl., Univ. Alaska, Fairbanks, AK; and FREDERICK H. SHELDON, Mus. Nat. Sci., Louisiana State Univ., Baton Rouge, LA.*
- 516 Suitability of mangrove habitat types to overwintering migratory birds in Puerto Rico. LEONARD REITSMA, *Dept. Nat. Sci., Plymouth State Coll., Plymouth NH*, JOSEPH SMITH, WILLIAM DELUCA, ROBERT REITSMA and PETER P. MARRA, *Smithsonian Environ. Res. Center, Edgewater, MD.*
- 517 Is there evidence for continued female-female pairing in Western Gulls breeding on Santa Barbara Island? CAROLINA PICKENS and GEORGE L. HUNT, *Dept. Ecol. & Evol. Biol., Univ. California, Irvine, CA.*
- 518 Use of raptors for monitoring HCPs. JEFFREY L. LINCER and JOHN D. BITTNER, *Wildlife Research Institute, Inc., La Mesa, CA.*
- 519 Role of gonadal hormones in the pre-nuptial molt of American Goldfinch. MEREDITH HUNTER and REBECCA HOLBERTON, *Dept. Biol. Sci., Univ. Maine, Orono, ME.*
- 520 *Why are there more migrants in the North? an investigation of the geographic patterns of breeding bird species diversity within North America. JEFFREY J. BULER and JEFFREY W. FARRINGTON, *Dept. Bio. Sci., Univ. Southern Mississippi, Hattiesburg, MS.*
- 521 Variation in Piping Plover foraging site quality in the Great Plains. DANIELLE Le FER, JAMES FRASER, *Dept. Fish. & Wildl., Virginia Tech, Blacksburg, VA*, and CASEY D. KRUSE, *U.S. Army Corps of Engineers, Gavins Point Project, Yankton, SD.*
- 522 Examining the effects of interspecific competition between Barrow's Goldeneye and Bufflehead. MATTHEW R. EVANS, *Centre Wildl. Ecol., Dept. Biol. Sci., Simon Fraser Univ., Burnaby, BC.*
- 523 What is missing from San Clemente Loggerhead Shrike habitat? SUELLEN LYNN, ERIC L. KERSHNER, *Inst. Wildl. Stud., San Diego, CA*; and DAVID K. GARCELON, *Inst. Wildl. Stud., Arcata, CA.*
- 524 New distributional records of bird fauna in the Sierra Gorda Biosphere Reserve, Queretaro, Mexico. ROBERTO PEDRAZA-RUIZ, *Grupo Ecological Sierra Gorda I.A.P., Jalpan, Queretaro, Mexico.*
- 525 Toucan-generated seed shadows: a preliminary study. KIMBERLY M. HOLBROOK and BETTE A. LOISELLE, *Dept. Biol., Univ. Missouri-St. Louis, St. Louis, MO.*
- 526 Seasonal changes in clutch size of the San Clemente Sage Sparrow. FREDERIC BEAUDRY, NICOLE M. MUNKWITZ and DAVID K. GARCELON, *Inst. Wildl. Stud., Arcata, CA.*
- 527 Are traditional methods of determining nest predators and nest fates reliable? an experiment with Wood Thrushes using miniature video cameras. GARY E. WILLIAMS and PETRA BOHALL WOOD, *USGS BRD West Virginia Coop. Fish & Wildl. Res. Unit and Div. For., West Virginia Univ., Morgantown, WV.*
- 528 Population estimates, distribution and habitat associations for Hawaiian forest birds. RICHARD J. CAMP, MARCOS GORRESEN, BETHANY L. WOODWORTH and THANE K. PRATT, *USGS-BRD Pacific Island Ecosys. Res. Center, Hawaii Natl. Park, HI.*
- 529 Spatial modeling of Hawaiian forest bird densities. MARCOS GORRESEN, RICHARD J. CAMP, BETHANY L. WOODWORTH and THANE K. PRATT, *Pacific Island Ecosys. Res. Center, USGS Biol. Res. Div., Hawaii Natl. Park, HI.*
- 530 Variation in the respiratory quotient of Black-capped Chickadees. SHELDON J. COOPER, *Dept. Biol., Univ. Wisconsin-Oshkosh, Oshkosh, WI.*
- 531 Development of polymorphic microsatellite markers that amplify across two eagle genera. JOSEPH D. BUSCH, *Dept. Biol., Northern Arizona Univ., Flagstaff, AZ*, TODD E. KATZNER, *Dept. Biol., Arizona State Univ., Tempe, AZ*, EVGENY BRAGIN, *Naurzum Zapovednik, Karamendy, Kazakhstan*, and PAUL KEIM, *Dept. Biol., Northern Arizona Univ.*
- 532 Plumage color and feather bacteria in House Finches and Eastern Bluebirds. MATTHEW D. SHAWKEY, SHREEKUMAR R. PILLAI, GEOFFREY E. HILL, SHARON D. ROBERTS and LYNN E. SIEFFERMAN, *Dept. Biol., Auburn Univ., Auburn, AL.*
- 533 A poster for the identification of Caspian Tern bill loads of the Pacific Coast. PENNY SPIERING and DAVID CRAIG, *Biol. Dept., Willamette Univ., Salem, OR.*
- 534 Plant phenology affects foraging habitat choice of spring migrant warblers at a riparian stopover site. LAURA J. McGRATH and CHARLES van RIPER III, *USGS/FRESC Colorado Plateau Field Sta., Northern Arizona Univ., Flagstaff, AZ.*
- 535 Incubation history and embryonic development in Boat-tailed Grackles. NANCY J. CLUM, *Environ. Sci., DePaul Univ., Chicago, IL*; and MARION R. PREEST, *Joint Sci., Claremont Coll., Claremont, CA.*
- 536 Modeling Northern Spotted Owl watershed- and nest-site occupancy in central coastal California. KATIE FEHRING, DIANA STRALBERG, *Point Reyes Bird Observ., Stinson Beach,*

SCIENTIFIC SESSIONS--WEDNESDAY

- CA; DAWN ADAMS, *Point Reyes Natl. Seashore, CA*; DAPHNE HATCH, *Golden Gate Nat. Rec. Area, CA*; NADAV NUR and LARS POMARA, *Point Reyes Bird Observ.*
- 537 Feeding habits of the Kelp Gull in Isla La Vieja in central Peru. ESMERALDA FLORES, *Univ. Nac. Agraria La Molina, Lima-Peru*, and CARLOS ZAVALAGA, *Dept. Biol. Sci., Univ. North Carolina at Wilmington, NC*.
- 538 The one-gel genome: the entire mitochondrial DNA sequence of the Whistling Swan. JULIE FEINSTEIN, *Am. Mus. Nat. Hist., New York, NY*.
- 539 Annual survival estimation confounded by incomplete breeding site-fidelity: study designs that may help. MATTHEW R. MARSHALL, *For. Res., Pennsylvania State Univ., University Park, PA*; DUANE R. DIEFENBACH, *USGS Pennsylvania Coop. Fish & Wildl. Res. Unit, Pennsylvania State Univ.*, LARRY A. WOOD and ROBERT J. COOPER, *For. Res., Univ. Georgia, Athens, GA*.
- 540 Vacant
- 541 Habitat selection for nest cups in the genus *Pluvialis* at Nome, Alaska. WHITNEY NEKOBA, *Kurtistown, HI*; PHILLIP L. BRUNER, ANDREA E. BRUNER and ROBERT N. WINGET, *Dept. Biol., Brigham Young Univ. Hawaii, Laie, HI*.
- 542 Choice of extra-pair mates by female Green-rumped Parrotlets. COLIN HUGHES, *Dept. Biol., Univ. Miami, Coral Gables, FL*, STEVEN R. BEISSINGER, *Dept. ESPM, Univ. California, Berkeley, CA*, and REBECCA R. MELLAND, *Dept. Biol., Univ. North Dakota, Grand Forks, ND*.
- 543 Modeling apparent survival probability and reproductive output of California Spotted Owls using forest cover types. JENNIFER A. BLAKESLEY, *Dept. Fish. & Wildl. Biol., Colorado State Univ., Ft. Collins, CO*.
- 544 Changes in avian community structure in a tidally restricted coastal wetland following salt marsh restoration. PETER W. C. PATON, FRANCIS C. GOLET and DENNIS H. A. MYSHRALL, *Dept. Nat. Res. Sci., Univ. Rhode Island, Kingston, RI*.
- 545 *Future of Salton Sea birds in jeopardy? MARK B. MENDELSON, WILLIAM I. BOARMAN and ROBERT N. FISHER, *U.S. Geol. Surv., San Diego Field Sta., CA*.
- 546 Use of artificial nest structures to mitigate Bald Eagle nest destruction. SCOTT A. KIMBALL, MARC J. BECHARD, *Dept. Biol. and Raptor Res. Center, Boise State Univ., Boise, ID*, and GREGORY S. KALTENECKER, *Idaho Bird Observatory, Dept. Biol., Boise State Univ.*
- 547 Relationships between width of post-logging beach buffer strips and composition of forest bird communities of southeast Alaska. MICHELLE KISSLING and EDWARD GARTON, *Dept. Wildl. Res., Univ. Idaho, Moscow, ID*.
- 548 *Multiple broods are better than extrapair mating in House Wrens. NICOLE E. POIRIER, LINDA A. WHITTINGHAM and PETER O. DUNN, *Dept. Biol. Sci., Univ. Wisconsin-Milwaukee, Milwaukee, WI*.
- 549 Effects of climate on adult body condition, breeding ecology, and population size of Semipalmated Plovers in Churchill, Manitoba. KATHERINE A. R. GRAHAM, *Watershed Ecosys. Grad. Prog., Trent Univ., Peterborough, ON*; and ERICA NOL, *Biol. Dept., Trent Univ.*
- 550 Temporal variation in Mexican Spotted Owl reproduction. MYLEA L. PETERSBURG, CHRISTOPHER A. MAY, R. J. GUTIERREZ and MARK E. SEAMANS, *Dept. Fish. Wildl. Cons. Biol., Univ. Minn., St. Paul, MN*.
- 551 Foraging behavior, territoriality, nest placement, and nest success of American Avocets on saline vs. freshwater wetlands. KELLY M. WELLS, *Dept. Biol., Univ. Nebraska-Omaha, Omaha, NE*.
- 552 Effects of alien rat predation and diseases on demography of the Oahu `Elepaio. ERIC A. VANDERWERF, *U.S. Fish & Wildl. Serv., Honolulu, HI*.
- 553 Potential underlying mechanisms leading to the association of Burrowing Owls with agriculture. COLLEEN E. MOULTON, JAMES R. BELTHOFF and RYAN S. BRADY, *Dept. Biol. and Raptor Res. Center, Boise State Univ., Boise, ID*.
- 554 Winter home range estimates of Henslow's Sparrows in coastal Mississippi. BENNY S. THATCHER, DAVID G. KREMENTZ, *USGS Arkansas Coop. Fish & Wildl. Res. Unit, Dept. Biol., Univ. Arkansas, Fayetteville, AR*; and MARK S. WOODREY, *U.S. Fish & Wildl. Serv., Jackson, MS*.
- 555 Species or host races? spatial and temporal genetic analysis of indigobird populations. KRISTINA M. SEFCO, *Dept. Biol., Boston Univ., Boston, MA*; ROBERT B. PAYNE, *Mus. Zool., Univ. Michigan, Ann Arbor, MI*, and MICHAEL D. SORENSON, *Dept. Biol., Boston Univ.*
- 556 Baiting and waiting: use of dung as a tool by Burrowing Owls. DOUGLAS J. LEVEY, R. SCOTT DUNCAN and C. J. LEVINS. *Dept. Zool., Univ. Florida, Gainesville, FL*.
- 557 Patterns of temporal and geographical variation in prey selection and reproductive success

SCIENTIFIC SESSIONS--WEDNESDAY

- bottomland hardwood forests and commercial pine plantations. DONATA ROOME and THOMAS W. SHERRY, EE Biol. Dept., Tulane Univ., New Orleans, LA.
- 576 vacant
- 577 Ecology of bird mixed-species flocks in Atlantic forest fragments, southeastern Brazil. MARCOS MALDONADO-COELHO, Depto. Biol., UFMG, Belo Horizonte, MG, Brazil, and Dept. Biol. & Internatl. Center for Tropical Ecol., Univ. Missouri, St. Louis, MO, and MIGUEL A. MARINI, Depto. Biol., UFMG, Belo Horizonte, MG, Brazil and Depto. Zool., UNB, Brasília, DF, Brazil.

Thursday, 26 Sep 2002

08:00 Continental Breakfast, Hotel Inter-Continental, Third Floor

09:00 P2 Plenary 2 (LaSalle BC; and video feed to an overflow location to be announced).
In Search of King Solomon's Ring: Studies on the Cognitive and Communicative Abilities of Grey Parrots. IRENE PEPPERBERG, Massachusetts Institute of Technology, School of Architecture and Planning; and Brandeis University, Dept. of Psychology, Cambridge, MA.

10:00 Coffee Break, Hotel Inter-Continental, Third Floor

Symposium J (Vieux Carré - A). Celebrating 100 years of bird banding in North America. J. Tautin et al., organizers.

10:30 S073 Introductory remarks. Symposium organizers

10:45 S074 The early history of bird banding in North America. JEROME A. JACKSON, Whitaker Center Sci., Math. & Tech. Edu., Florida Gulf Coast Univ., Ft. Myers, FL.

11:00 S075 The roles and contributions of banding organizations to the North American bird banding program. LUCIE METRAS, Canadian Wildl. Serv. Ottawa, ON, SARA R. MORRIS, Canisius Coll., Buffalo, NY, and BRENDA DALE, Canadian Wildl. Serv., Edmonton, AB.

11:15 S076 Bird banding and the study of migration. FRANK R. MOORE, Univ. Southern Mississippi, Hattiesburg, MS.

11:30 S077 From individual behavior observations to broadly applied premises: why bird banding has become THE essential tool in avian behavioral ecology studies. M. VICTORIA McDONALD, Univ. Central Arkansas, Conway, AR.

11:45 S078 How have banding and marking helped us understand the habitat ecology of birds? JEFFREY D. BRAWN, SCOTT R. SCHLOSSBERG, COURTNEY L. BLOOD, Univ. Illinois Urbana-Champaign, Champaign, IL, and JEFFREY P. HOOVER, Illinois Nat. Hist. Surv., Champaign, IL.

12:00 S079 The role of bird banding in the management of migratory bird hunting. ROBERT J. BLOHM, US Fish & Wildl. Serv., Arlington, VA.

12:15 S080 The role of bird-banding in avian ecotoxicology. D. V. CHIP WESELOH, Canadian Wildl. Serv., Downsview, ON, and CRAIG E. HEBERT, Natl. Wildl. Res. Centre, Ottawa, ON.

14:00 S081 Use of bird banding information to investigate disease, safety, and economic issues of birds and their interactions with humans. ROBERT G. McLEAN, USGS Natl. Wildl. Health Center, Madison, WI, and STEPHEN C. GUPTILL, USGS Geographic Sci. Branch.

14:15 S082 North American bird banding and quantitative population ecology. JAMES D. NICHOLS and JOHN TAUTIN, U.S. Geol. Surv, Patuxent Wildl. Res. Cen, Laurel, MD.

14:30 S083 The role of banding in bird population monitoring. CHARLES M. FRANCIS, Canadian Wildl. Serv., Ottawa, ON.

14:45 S084 Bird banding and the restoration of depleted and extirpated populations. STEPHEN A. NESBITT, Florida Fish & Wildl. Conserv. Comm., Gainesville, FL.

15:00 S085 The role of banding in promoting an international perspective to migratory bird conservation. BRAD A. ANDRES, US Fish & Wildl. Serv., Arlington, VA.

15:15 S086 A look to the future of bird banding in North America. DAVID F. DeSANTE, Institute for Bird Populations, Point Reyes Station, CA.

15:30 S087 Closing remarks. Symposium organizers.

Session 4B (LaSalle - BC). Systematics. Robert M. Zink, chair.

10:30 95 *Has temporal segregation led to sympatric divergence in Band-rumped Storm-Petrels? ANDREA L. SMITH, Dept. Biol., Queen's Univ., Kingston, ON; MARK BOLTON, Dept. Ocean. & Fish., Univ. Azores, Horta, Portugal, and VICKI L. FRIESEN, Dept. Biol., Queen's Univ.

10:45 96 *Species limits and phylogeography of southern hemisphere gulls. ANDREW D. GIVEN, Dept. Zool., Univ. Toronto, Toronto, ON; and ALLAN J. BAKER, Centre

SCIENTIFIC SESSIONS--THURSDAY

- Biodiversity & Conserv. Biol., Royal Ontario Mus., Toronto, ON.
- 11:00 97 The role of mitochondrial DNA studies in elucidating avian subspecies. ROBERT M. ZINK, Bell Mus., Univ. Minnesota, St Paul, MN.
- 11:15 98 Microsatellite genetic variation across a manakin hybrid zone. TAMAKI YURI, Lab. Analytical Biol., Smithsonian Inst., Suitland, MD; NIRMAL K. BHAGABATI, Inst. Genomic Research, Rockville, MD; and MICHAEL J. BRAUN, Lab. Analytical Biol., Smithsonian Inst.
- 11:30 99 *A first look at genetic differentiation across the Solomon Archipelago: do genetics and morphology concur? CATHERINE E. SMITH and CHRISTOPHER E. FILARDI, Burke Mus. and Dept. Zool., Univ. Washington, Seattle, WA.
- 11:45 100 *Biogeography and plumage divergence in Monarch Flycatchers of the Solomon Archipelago. CHRISTOPHER E. FILARDI and CATHERINE E. SMITH, Burke Mus. and Dept. Zool., Univ. Washington, Seattle, WA.
- 12:00 101 A surprise from the Solomons: "Podargus ocellatus inexpectatus (Marbled Frogmouth)" represents a distinct and new genus. ANDREW W. KRATTER, Florida Mus. Nat. Hist., Univ. Florida, Gainesville, FL; NIGEL CLEERE, England, UK; DAVID W. STEADMAN, Florida Mus. Nat. Hist., MICHAEL J. BRAUN, Lab. Molecular Syst., Smithsonian Inst., Suitland, MD; and CHRISTOPHER E. FILARDI, Burke Mus., Univ. Washington, Seattle, WA.
- 12:15 102 "Amazona" xanthops? taxonomic status of the Yellow-faced Amazon Parrot. JOSEPH W. BROWN, TIMOTHY BIRT and VICKI FRIESEN, Dept. Biol., Queen's Univ., Kingston, ON.

Session 4C (Cabildo). Breeding Biology. Joel J. Adamson, chair.

- 10:30 103 *Sex-biased territoriality, movement patterns, and helping behavior in Rufous-tailed Jacamars. GARY M. LANGHAM, JUSTIN M. HITE, Dept. Ecol. & Evol. Biol., Cornell Univ., Ithaca, NY, and JEFFREY M. DaCOSTA, Transkaryotic Therapies, Inc., Cambridge, MA.
- 10:45 104 Ecology of African Snipe *Gallinago nigripennis*: an endemic bird of high altitude wetlands. CECILIA M. GICHUKI, Centre Biodiv., Natl. Mus. Kenya, Nairobi, Kenya, EUNICE W. KAIRU and ROMANUS O. OKELO, Zool. Dept., Kenyatta Univ., Nairobi, Kenya.
- 11:00 105 *Nest-site preference in Lark Sparrows. JOEL J. ADAMSON, EPO Biol. Dept., Univ. Colorado, Boulder, CO.
- 11:15 106 *Factors affecting nesting success of American Oystercatchers in North Carolina. CONOR P. MCGOWAN, THEODORE R. SIMONS, Dept. Zool. and Coop. Fish & Wildl. Res. Unit, North Carolina State Univ., Raleigh, NC, JEFF R. CORDES, Cape Lookout Natl. Seashore, Harkers Island, NC, and MARCIA LYONS, Cape Hatteras Natl. Seashore, Manteo, NC.
- 11:30 107 *Water availability and reproductive success in desert birds: the effect of water supplementation on the Black-throated Sparrow. SHARON J. COE, Dept. Biol., Univ. California, Riverside, CA.
- 11:45 108 *Relative importance of food and nest site availability on breeding habitat selection by Prothonotary Warblers. DAWN E. W. DRUMTRA, Inst. Ecol., Univ. Georgia, Athens, GA, and ROBERT J. COOPER, School For. Res., Univ. Georgia, Athens, GA.
- 12:00 109 *Extra-pair paternity in Golden-winged Warblers: implications of mate choice for hybridization with Blue-winged Warblers. RACHEL FRASER, TIM P. BIRT and RALEIGH J. ROBERTSON, Dept. Biol., Queen's Univ., Kingston, ON.
- 12:15 110 *Nest cavity availability and selection in central British Columbia. KATHRYN E. H. AITKEN. Centre for Applied Conserv. Res., Univ. British Columbia, Vancouver, BC, and KATHY MARTIN, Centre for Applied Conserv. Res., Univ. British Columbia, and Canadian Wildl. Serv., Delta, BC.

Session 4D (Pan-Am Auditorium). Conservation. Therese M. Donovan, chair.

- 10:30 111 Area effects in habitat fragmentation studies. RALPH G. MANCKE, Langhorne, PA.
- 10:45 112 Relationships among North American songbird trends, habitat fragmentation, and landscape occupancy. THERESE M. DONOVAN, USGS Vermont Coop. Fish & Wildl. Res. Unit, Burlington, VT, and CURTIS FLATHER, USDA For. Serv. Rocky Mountain Res. Sta., Fort Collins, CO.

SCIENTIFIC SESSIONS--THURSDAY

- 11:00 113 Avian community response to intensive Red-cockaded Woodpecker habitat management. DOUGLAS R. WOOD, L. WES BURGER Jr., Dept. Wildl. & Fish., Mississippi State Univ., Starkville, MS; and JACOB L. BOWMAN, Dept. Entom. & Appl. Ecol., Univ. Delaware, Newark, DE.
- 11:15 114 *Context-dependent edge effects on coastal sage scrub birds. THOMAS M. UNFRIED, Dept. Biol., Univ. California, Riverside, CA.
- 11:30 115 Edge effects, landscape context, and regional population viability of Wood Thrushes. MELANIE J. L. DRISCOLL and THERESE M. DONOVAN, USGS Vermont Coop. Fish & Wildl. Res. Unit, Burlington, VT.
- 11:45 116 Spatial autocorrelation of bird populations in fragmented forests: implications for metapopulation dynamics. TROY E. WILSON and THOMAS A. WAITE, Dept. Evol. Ecol. & Organ. Biol., Ohio State Univ., Columbus, OH.
- 12:00 117 Effects of forest fragmentation on reproductive success, annual returns, and age distribution of male Ovenbirds in an eastern Pennsylvania landscape, 1989 to 2001. LAURIE J. GOODRICH, Hawk Mountain Sanctuary Assoc., Kempton, PA; MARGARET C. BRITTINGHAM, Pennsylvania State Univ., University Park, PA, CATHERINE B. VIVERETTE, Miller's Tavern, VA; and JAMES C. BEDNARZ, Dept. Biol. Sci., Arkansas State Univ., Jonesboro, AR.
- 12:15 118 Riparian songbird abundance a decade after cattle removal from high desert riparian habitats. SUSAN L. EARNST, USGS For. & Range. Ecosys. Sci. Center, Boise, ID; JENNIFER A. BALLARD, Hart Mountain Natl. Antelope Refuge, Plush, OR; and DAVID S. DOBKIN, High Desert Ecol. Res. Inst., Bend, OR.

Session 4E (Pontalba). Migration. Richard O. Bierregaard, chair.

- 10:30 119 Pre-migratory movements of Ospreys in southern New England. RICHARD O. BIERREGAARD, Biol. Dept., Univ. North Carolina, Charlotte, NC, and MARK S. MARTELL, The Raptor Center, Univ. Minnesota, St. Paul, MN.
- 10:45 120 Using plasma metabolite concentrations as an index for stopover site habitat quality for migrating Western Sandpipers. DANA A. SEAMAN, TONY D. WILLIAMS, Biol. Sci., Simon Fraser Univ., Burnaby, BC, and CHRISTOPHER G. GUGLIELMO, Univ. Montana, Missoula, MT.
- 11:00 121 Use of urban habitats by passage migrants in New Orleans, Louisiana. PETER H. YAUKEY, Dept. Geog., Univ. New Orleans, New Orleans, LA.
- 11:15 122 Operation RubyThroat: The Hummingbird Project. BILL HILTON, Jr., Hilton Pond Center for Piedmont Nat. Hist., York, SC.
- 11:30 123 Endogenous control of migration and influence of photoperiod in an intratropical migrant, the Yellow-green Vireo. JOHN D. STYRSKY, Dept. Biol. Sci., Auburn Univ., Auburn, AL; and PETER BERTHOLD, Max Planck Centre for Ornithology, Radolfzell, Germany.
- 11:45 124 Importance of landscape context in identifying high-use stopover habitat. ROBERT H. DIEHL, Dept. Animal Biol., Univ. Illinois, Urbana, IL.
- 12:00 125 Snowy Owl annual movements: north-south, east-west. M. FULLER, USGS, Boise ID; N. SMITH, Massachusetts Audubon Soc., Milton, MA; D. HOLT, Owl Research Inst., Missoula, MT; L. SCHUECK, USGS Boise, ID; K. BATES, Raptor Research Ctr., Boise State Univ., ID, and L. NIABI-WESTCOTT, Massachusetts Soc., Milton, MA.
- 12:15 126 Factors governing Little Stint migration at Eilat, Israel. REUVEN YOSEF, Internatl. Birding & Res. Center in Eilat, Eilat, Israel, PRZEMEK CHYLARECKI, Inst. Ecol., Polish Acad. Sci., Gdansk, Poland, and PIOTR TRYJANOWSKI, Dept. Avian Biol. & Ecol., Adam Mickiewicz Univ., Poznan, Poland.

Session 4H (Vieux Carré - B). Census methods. Kathryn L. Purcell, chair.

- 10:30 127 The North American Raptor Monitoring Strategy. M. FULLER, U.S. Geol. Surv., Boise, ID, and K. BATES, Raptor Res. Center, Boise State Univ., Boise, ID.
- 10:45 128 Sample size adequacy for monitoring birds in California oak woodlands using point counts. KATHRYN L. PURCELL, USDA For. Serv., Pacific Southwest Res. Sta., Sierra Nevada Res. Center, Fresno, CA, SYLVIA R. MORI, USDA For. Serv., Pacific Southwest Res. Sta., Albany, CA, and MARY K. CHASE, Point Reyes Bird Observ., Stinson Beach, CA.
- 11:00 129 Estimating density from point-count surveys: theory with applications. GEORGE L.

SCIENTIFIC SESSIONS--THURSDAY

FARNSWORTH, Dept. Nat. Sci., Univ. Houston-Downtown, TX, SUSAN A. SHRINER, KENNETH H. POLLOCK, THEODORE R. SIMONS, Dept. Zool., North Carolina State Univ., Raleigh, NC, JOHN R. SAUER and JAMES D. NICHOLS, Patuxent Wild. Res. Center, Laurel, MD.

- 11:15 130 How closely do we estimate numbers of birds? controlled measurement of interobserver error in counting birds. REBECCA A. HYLTON, PETER C. FREDERICK and JULIE A. HEATH, Dept. Wildl. Ecol. & Conserv., Univ. Florida, Gainesville, FL.
- 11:30 131 Trend estimation using a linear model. JONATHAN BART, USGS For. & Range. Ecosys. Sci. Center, Boise, ID; BRIAN COLLINS and R. I. G. MORRISON, Canadian Wildl. Serv., Hull, PQ.
- 11:45 132 Monitoring Red-shouldered Hawk populations: evaluation of available data and the potential for improved approaches. JOELLE L. GEHRING, Dept. For. & Nat. Res., Purdue Univ., West Lafayette, IN, JAMES C. BEDNARZ, Dept. Biol. Sci., Arkansas State Univ., Jonesboro, AR, and MICHAEL D. McCRARY, Dept. Interior, Newbury Park, CA.
- 12:00 133 Point count efficiency and nesting success in marsh birds. DOUGLAS C. TOZER, Dept. Biol., Trent Univ., Peterborough, ON.
- 12:15 134 *Does variation in female arrival date bias count data in migratory songbirds? BRETT L. WALKER, Wildl. Biol. Prog., School For., Univ. Montana, Missoula, MT.

Session 4J (Poydras). Woodpecker biology. Rita D. Dixon, chair.

- 10:30 135 Patterns of brood reduction in Red-cockaded Woodpeckers support the egg insurance hypothesis. JAMES R. McCORMICK, Dept. Biol., Stephen F. Austin State Univ., Nacogdoches, TX; RICHARD N. CONNER, Southern Res. Sta., Nacogdoches, TX; D. BRENT BURT, Dept. Biol., Stephen F. Austin State Univ.; and DANIEL SAENZ, Southern Res. Sta.
- 10:45 136 Influence of burn edges on nesting success of Lewis's Woodpecker. STEPHEN C. ABELE, EDWARD O. GARTON, Dept. Fish & Wildl. Res., Univ. Idaho, Moscow, ID; and VICTORIA A. SAAB, USDAFS, Rocky Mountain Res. Sta., Boise, ID.
- 11:00 137 Reproductive effort and parasite resistance in the Red-bellied Woodpecker. MATTHEW S. SCHRADER, Dept. Biol. Sci., Florida State Univ., Tallahassee, FL.
- 11:15 138 A survival and sensitivity analysis of White-headed Woodpeckers. RITA D. DIXON, Dept. Fish & Wildl. Res., Univ. Idaho, Moscow, ID.
- 11:30 139 Influence of groundcover on Red-cockaded Woodpecker prey base. BRANDON TAYLOR and JEFF WALTERS, Biol. Dept., Virginia Tech, Blacksburg, VA.
- 11:45 140 Cell-mediated immune development in passerine cavity-nesting birds in the wild. JEANNE M. FAIR and CARRIE E. TALUS, Los Alamos Natl. Lab., Environ. Dynam. & Spatial Anal., Los Alamos, NM.
- 12:00 141 Factors influencing natal dispersal distance in Red-cockaded Woodpeckers. GILBERTO PASINELLI, Zool. Inst., Univ. Zurich, Zurich, Switzerland, and JEFFREY R. WALTERS, Dept. Biol., Virginia Tech, Blacksburg, VA.
- 12:15 142 Fitness costs of natal dispersal in Red-cockaded Woodpeckers. KARIN SCHIEGG, GILBERTO PASINELLI, Zool. Inst., Univ. Zurich, Zurich, Switzerland, and JEFFREY R. WALTERS, Dept. Biol., Virginia Tech, Blacksburg, VA.
- 12:30 Lunch Break; for options see FOOD section, p. 8 above

Session 5F (LaSalle - B). Breeding biology. Leonard A. Freed, chair.

- 14:00 143 *Factors affecting nest success of songbirds in riparian corridors. REBECCA G. PEAK, Dept. Fish. & Wildl. Sci., Univ. Missouri, Columbia, MO, and FRANK R. THOMPSON, III, USDA For. Serv., North Central Res. Sta., Columbia, MO.
- 14:15 144 *Individual quality and experimental increases in reproductive effort affect primary and acquired immunity in Tree Swallows. DANIEL R. ARDIA, Dept. Ecol. & Evol. Biol., Cornell Univ., Ithaca, NY.
- 14:30 145 *Nest desertion in response to partial clutch loss: a manipulative study. JASON C. JOHNSTON, Dept. Biol., Univ. Maine, Orono, ME.
- 14:45 146 *Parentage and parental effort in Blue-tailed Bee-eaters. PRISCILLA F. COULTER, D. BRENT BURT, Stephen F. Austin State Univ., Nacogdoches TX, HSIAO-WEI YUAN and LI-PING WANG, Natl. Taiwan Univ., Taipei Taiwan.

SCIENTIFIC SESSIONS--THURSDAY

- 15:00 147 Breeding biology of Swainson's Warblers in a managed South Carolina bottomland. JENNIFER L. THOMPSON, Dept. Zool., North Carolina State Univ., Raleigh, NC; RICHARD A. LANCIA, Dept. For., North Carolina State Univ.; and JOHN A. GERWIN, North Carolina State Mus. Nat. Sci., Raleigh, NC.
- 15:15 148 Molting and breeding decisions in Hawaiian honeycreepers. LEONARD A. FREED, Dept. Zool., Univ. Hawaii, Honolulu, HI.

Session 5C (Cabildo). Foraging. Patrick G. R. Jodice, chair.

- 14:00 149 Foraging conservatism and plasticity of bird species associated to *Polylepis* woodlands in the Peruvian Andes: implications for assemblage organization. GRACE P. SERVAT, Dept. Biol., Univ. Missouri-St. Louis, St. Louis, MO.
- 14:15 150 Impacts of herbicides and fertilizers on quail chick food supplies and growth rates. JESSICA M. BROUSSARD, JEFFREY P. DUGUAY and JIMMIE L. YEISER, Arthur Temple Coll. For., Stephen F. Austin State Univ., Nacogdoches, TX.
- 14:30 151 Variability in parental effort of Black-legged Kittiwakes as a consequence of prey resources and time-activity budgets. PATRICK G. R. JODICE, U.S. Fish & Wildl. Serv., Portland, OR; and DANIEL D. ROBY, Oregon Coop. Fish & Wildl. Res. Unit, Corvallis, OR.
- 14:45 152 European Starlings prefer the fruits of invasive plants. NANCY LaFLEUR, Dept. Ecol. & Evol. Biol., Univ. Connecticut, Storrs, CT.
- 15:00 153 Vacant
- 15:15 154 A test of the prey size hypothesis on the numerical response of wading birds in the Everglades. DALE E. GAWLIK, Everglades Div., South Florida Water Manage. Dist., West Palm Beach, FL.

Session 5D (Pan-Am Auditorium). Warbler biology. Matthew R. Marshall, chair.

- 14:00 155 Breeding site-fidelity of a migratory songbird: implications for annual survival estimation. MATTHEW R. MARSHALL, For. Res., Pennsylvania State Univ., University Park, PA; DUANE R. DIEFENBACH, USGS Pennsylvania Coop. Fish & Wildl. Res. Unit, Pennsylvania State Univ., LARRY A. WOOD and ROBERT J. COOPER, For. Res., Univ. Georgia, Athens, GA.
- 14:15 156 The geography of age ratios in hybridizing warblers. SIEVERT ROHWER, Burke Mus. and Dept. Zool., Univ. Washington, Seattle, WA.
- 14:30 157 Relative abundance and demography of Black-throated Blue Warblers in heavily and less deer-browsed northern forests. KIMBERLY R. HALL, School Nat. Res. & Environ., Univ. Michigan, Ann Arbor MI.
- 14:45 158 Habitat characteristics and conservation of Swainson's Warbler nests in bottomland hardwood forests of southeastern Oklahoma. MICHAEL L. ADAMS, Dept. Biol. Sci., Univ. Arkansas, Fayetteville, AR.
- 15:00 159 *Factors influencing double brooding in Black-throated Blue Warblers. LAURA R. NAGY and RICHARD T. HOLMES, Dept. Biol. Sci., Dartmouth Coll., Hanover, NH.
- 15:15 160 Estimates of annual survivorship for Kirtland's Warblers: a case for habitat management on the breeding grounds. CAROL BOCETTI, USGS Patuxent Wildl. Res. Center, California, PA; PAUL W. SYKES, Jr., CAMERON B. KEPLER, USGS Patuxent Wildl. Res. Center, Athens, GA; JONATHAN BART, USGS Snake River Field Sta., Boise, ID, and JOHN PROBST, USFS Northcentral Forest Exp. Sta., Rhinelander, WI.

Session 5E (Pontalba). Migration. Ronald P. Larkin, chair.

- 14:00 161 "New" migration patterns in Ruby-throated Hummingbirds. BILL HILTON Jr., Hilton Pond Center for Piedmont Nat. Hist., York, SC.
- 14:15 162 Orientation by Canada Geese during fall migration. RONALD P. LARKIN, Center Wildl. Ecol., Illinois Nat. Hist. Surv., Champaign, IL.
- 14:30 163 Orientation of Chiffchaff, Blackcap and Lesser White-throat on spring migration at Eilat, Israel. REUVEN YOSEF, Internatl. Birding & Res. Center in Eilat, Israel; AGNIESZKA TROCINSKA and PRZEMYSŁAW BUSSE, Bird Migration Res. Sta.,

SCIENTIFIC SESSIONS--THURSDAY

- Univ. Gdansk, Przebendowo, Choczewo, Poland.
- 14:45 164 Microbes in the plumage of Neotropical migrants: long distance dispersal of microorganisms? KATE E. WILLIAMSON, BENJAMIN T. LAWRENCE, Dept. Zool., Ohio Wesleyan Univ., Delaware, OH, JANN M. ICHIDA, Dept. Bot./Micro., Ohio Wesleyan Univ., and EDWARD H. BURTT, Jr., Dept. Zool.
- 15:00 165 Sustained travel rates of migrating Western Sandpipers. NILS WARNOCK, Point Reyes Bird Observ., Stinson Beach, CA; MARY ANNE BISHOP, Prince William Sound Sci. Center, Cordova, AK; and JOHN Y. TAKEKAWA, BRD, USGS, Vallejo, CA.
- 15:15 166 Re-sightings of Peregrine Falcons color-banded on the Washington coast. DANIEL E. VARLAND, Hoquiam, WA.

Session 5H (Vieux Carré - B). Conservation. Ted Simons, chair.

- 14:00 167 Conservation implications for early successional breeding birds on managed pine plantations in southeastern Louisiana. LYNN M. DUDA and PHILIP C. STOUFFER, Dept. Biol. Sci., Southeastern Louisiana Univ., Hammond, LA.
- 14:15 168 Avian assemblage composition and diversity of grassland birds wintering in northern Mexico: influence of land management practices. M. DESMOND, Dept. Fish. & Wildl. Sci., New Mexico State Univ., Las Cruces, NM; A. LAFON, Facultad de Zootecnia, Universidad Autonoma de Chihuahua, Chihuahua, Mexico, and F. CHAVEZ-RAMIREZ, Platte River Trust, Gand Island, NE.
- 14:30 169 Stable isotopes provide evidence for poor Northern Pintail production on the Canadian Prairies. CRAIG E. HEBERT, Canadian Wildl. Serv., Natl. Wildl. Res. Centre, Hull, PQ; LEONARD I. WASSENAAR, Natl. Hydrol. Res. Centre, Saskatoon, SK; and KEITH A. HOBSON, Canadian Wildl. Serv., Prairie & Northern Wildl. Res. Centre, Saskatoon, SK.
- 14:45 170 Avian response to nutrient loading in an oligotrophic wetland. GAEA E. CROZIER and DALE E. GAWLIK, S. Florida Water Manage. Dist., West Palm Beach, FL.
- 15:00 171 Development of a strategy for adaptive harvest management of American Black Ducks. CHRISTOPHER J. FONNESBECK, MICHAEL J. CONROY and NATHAN L. ZIMPFER, Georgia Coop. Fish & Wildl. Res. Unit, Univ. Georgia, Athens, GA.
- 15:15 172 Forest bird communities on managed and unmanaged landscapes in the southern Appalachians. TED SIMONS, North Carolina Coop. Fish & Wildl. Res. Unit, Dept. Zool., North Carolina State Univ., Raleigh, NC.

Session 5J (Poydras). Vocalizations. R. L. Curry, chair.

- 14:00 173 *Neighbor-stranger discrimination in a suboscine, the Alder Flycatcher. SCOTT F. LOVELL, Dept. Biol. Sci., Univ. Calgary, Calgary, AB.
- 14:15 174 *How Nearctic and intratropical migration shape dawn song and morphology in the New World. ISABELLE-ANNE BISSON, BRIDGET J. STUTCHBURY, Dept. Biol., York Univ., ON, and STEPHEN LOUGHEED, Dept. Biol., Queen's Univ., Kingston, ON.
- 14:30 175 *Alarm calling in a Sri Lankan mixed-species flock system. EBEN GOODALE, Organ. & Evol. Biol., Univ. Massachusetts, Amherst, MA.
- 14:45 176 Patterns and implications of aberrant singing behaviors of Black-capped and Carolina Chickadees in Illinois. P. CAESAR ENSTROM and ERIC K. BOLLINGER, Biol. Sci. Dept., Eastern Illinois Univ., Charleston, IL.
- 15:00 177 Type I song populations in Hermit Warblers: song characteristics, geographic distribution and inter-population response. STEWART W. JANES and LEE RYKER, Dept. Biol., Southern Oregon Univ., Ashland, OR.
- 15:15 178 Mismatched songs and calls among hybridizing Black-capped and Carolina chickadees. R. L. CURRY and L. M. ROSSANO, Dept. Biol., Villanova Univ., Villanova, PA.

Session 5G (LaSalle - C). Miscellaneous. Gary R. Hepp, chair.

- 14:00 179 The overestimation of speciation times in modern birds. NED K. JOHNSON, Mus. Vert. Zool. and Dept. Integrative Biol., Univ. Calif., Berkeley, CA and CARLA CICERO, Mus. Vert. Zool., Univ. Calif. Berkeley, CA.
- 14:15 180 Sources of UV variation in museum study skins. MUIR D. EATON, Dept. Ecol. Evol. & Behav., Univ. Minnesota, St. Paul, MN.

SCIENTIFIC SESSIONS--THURSDAY

- 14:30 181 Interpreting immunomodulation in birds: an ecotoxicological context. JUDIT E. SMITS, Vet. Pathol., Univ. Saskatchewan, Saskatoon, SK, and GARY R. BORTOLOTTI, Biol. Dept., Univ. Saskatchewan.
- 14:45 182 A tangerine-scented pheromone in a monogamous seabird. JULIE C. HAGELIN, Dept. Biol., Swarthmore Coll., Swarthmore, PA; IAN L. JONES, Dept. Biol., Memorial Univ. Newfoundland, St. John's, NF; and L. E. L. RASMUSSEN, Dept. Biochem. & Molec. Biol., Oregon Graduate Inst., Beaverton, OR.
- 15:00 183 Landscape analysis of Mexican Spotted Owl nest and roost sites in central Arizona. CHRISTOPHER A. MAY and R. J. GUTIÉRREZ, Dept. Fish., Wildl. & Cons. Biol., Univ. Minnesota, St. Paul, MN.
- 15:15 184 Species richness in a lowland forest understory of Ecuador: preliminary results from mist nets. JOHN G. BLAKE and BETTE A. LOISELLE, Dept. Biol. and Intl. Ctr. Trop. Ecol., Univ. Missouri, St. Louis, MO.

3:30 Refreshment Break, Hotel Inter-Continental, Third Floor

Session 6C (Cabildo). Evolution. Jennifer Gee, chair.

- 16:00 185 *Covey formation contributes to heterospecific pairing in hybridizing California and Gambel's Quail. JENNIFER GEE, Dept. Ecol. & Evol. Biol., Princeton, Univ., Princeton, NJ.
- 16:15 186 *Size dimorphism and sexual selection across bird species: a nonlinear relationship. SUHEL QUADER, KAVITA ISVARAN and REBECCA HALE, Dept. Zool., Univ. Florida, Gainesville, FL.
- 16:30 187 Making a mimetic nestling: how do African finches (Estrildidae) do it? JUSTIN G. SCHUETZ, Ecol. & Evol. Biol., Cornell Univ., Ithaca, NY.
- 16:45 188 *Evolution of ecological differences: Neotropical tanagers of the genus Tangara (Thraupidae). KAZUYA NAOKI, Dept. Biol. Sci. and Mus. Nat. Sci., Louisiana State Univ., Baton Rouge, LA; and KEVIN J. BURNS, Dept. Biol., San Diego State Univ., San Diego, CA.

Session 6D (Pan-Am Auditorium). Warbler biology. Petra Bohall Wood, chair.

- 16:00 189 *Seasonal increase in nest predation rates for a ground-nesting warbler. PAULINE K. ROBERTS, Ecol. & Evol. Biol., Dartmouth Coll., Hanover, NH, and PETER P. MARRA, Smithsonian Environ. Res. Center, Edgewater, MD.
- 16:15 190 *Core area habitat selection and use within breeding territories of male Cerulean Warblers. JENNIFER J. BARG, Dept. Biol., Queen's Univ., Kingston, ON; JASON JONES, Dartmouth Coll., Hanover, NH; and RALEIGH J. ROBERTSON, Dept. Biol., Queen's Univ.
- 16:30 191 Factors influencing Cerulean Warbler territory density in southern West Virginia. PETRA BOHALL WOOD and CATHY A. WEAKLAND, USGS/BRD West Virginia Coop. Fish & Wildl. Res. Unit and Div. For., West Virginia Univ., Morgantown, WV.
- 16:45 192 Evaluating the population status of Ovenbird in Great Smoky Mountains National Park. ANDREI L. PODOLSKY, THEODORE R. SIMONS and JAIME A. COLLAZO, North Carolina Coop. Fish & Wildl. Res. Unit, Zool. Dept., North Carolina State Univ., Raleigh, NC.

Session 6E (Pontalba). Ecology. Clinton W. Jeske, chair.

- 16:00 193 A New Zealand island in change: 21 years of landbird populations affected by succession, predator control, and weather. C. JOHN RALPH, CAROL PEARSON RALPH and TERESA MATSUMOTO, USDA For. Serv., Redwood Sci. Lab, Arcata, CA.
- 16:15 194 Two decades of change in a coastal scrub community: songbird responses to plant succession and the role of disturbance. ARRON L. HOLMES, MARY K. CHASE, GRANT BALLARD, THOMAS GARDALI, GEOFFREY R. GEUPEL and NADAV NUR, Point Reyes Bird Observ. Conserv. Sci., Stinson Beach, CA.
- 16:30 195 Swainson's Hawk adaptation to, and dependence on, specific agricultural practices and crop types in California's Central Valley. MICHAEL A. BRADBURY, Swainson's Hawk Tech. Advisory Comm., Sacramento, CA.

SCIENTIFIC SESSIONS--THURSDAY

- 16:45 196 Scale dependency in habitat selection by cavity nesting birds in Fishlake National Forest, Utah. RANDALL J. SCHULTZ, Jr., Dept. Fish. & Wildl. and Ecology Center, Utah State Univ., Logan, UT; THOMAS C. EDWARDS, Jr., USGS Biol. Res. Div., Utah Coop. Fish & Wildl. Res. Unit, Utah State Univ., Logan, UT; GRETCHEN G. MOISEN and TRACEY S. FRESCINO, USDA For. Serv., Rocky Mountain Res. Sta., Ogden, UT.

Session 6F (LaSalle - B). Conservation. Juan E. Martínez-Gómez, chair.

- 16:00 197 Piping Plover recolonization potential in the Great Lakes: assessment of historic habitat. ELIZABETH W. PRICE, Cons. Biol. Prog., Univ. Minnesota, St. Paul, MN, and FRANCESCA J. CUTHBERT, Dept. Fish. & Wildl., Univ. Minnesota.
- 16:15 198 The recovery program for the Socorro Dove. JUAN E. MARTÍNEZ-GÓMEZ, Dept. Biol., Univ. Missouri, Saint Louis MO, and STEFAN STADLER, Zoological Gardens, Frankfurt, Germany.
- 16:30 199 Breeding productivity in shaded coffee plantations: could plantations have served as refugia in Puerto Rico? JAIME A. COLLAZO and MARTHA J. GROOM, North Carolina Coop. Fish & Wildl. Res. Unit, North Carolina State Univ., Raleigh, NC.

Session 6G (LaSalle - C). Miscellaneous. William I. Boarman, chair.

- 16:00 200 Density and habitat use of a Swainson's Warbler breeding population at Bond Swamp National Wildlife Refuge, Georgia. J. MICHAEL MEYERS, USGS Patuxent Wildl. Res. Center, Univ. Georgia, Athens, GA, and ELIZABETH A. WRIGHT, Warnell School For. Res., Univ. Georgia, Athens, GA.
- 16:15 201 Intersexual differences in migratory restlessness of a flocking intercontinental migrant, the Eastern Kingbird. SARAH E. MABEY, Dept. Biol. Sci., Univ. Southern Mississippi, Hattiesburg, MS.
- 16:30 202 Nesting and post-fledging ecology of Loggerhead Shrikes in northeastern and central Arkansas. JENNIFER L. NORRIS, CHRIS KELLNER, Dept. Biol. Sci. Fish & Wildl. Prog., Arkansas Tech Univ., Russellville, AR, and JAMES BEDNARZ, Dept. Biol. Sci., Arkansas State Univ., State University, AR.

Session 6H (Vieux Carré - B). Physiology. Jonathan D. Maul, chair.

- 16:00 203 *Teaching an old bird new tricks: does telomere length increase with age in long-lived birds? MARK F. HAUSSMANN, Ecol. Evol. Biol., Iowa State Univ., Ames, IA; DAVID W. WINKLER, Dept. Ecol. Evol. Biol., Cornell Univ., Ithaca, NY; KATHLEEN M. O'REILLY, Dept. Biol., Univ. Portland, Portland, OR; CHUCK E. HUNTINGTON, Harpswell, ME; and CAROL VLECK, Ecol. Evol. Biol., Iowa State Univ.
- 16:15 204 *Cloacal microbial flora in breeding and wintering birds: overall prevalence and relationship to condition index, fluctuating asymmetry, and habitat. JONATHAN D. MAUL, JAGRUTI P. GANDHI and JERRY L. FARRIS, Environ. Sci. Prog., Arkansas State Univ., State University, AR.
- 16:30 205 Evaluating the effects of selenium on populations of Red-winged Blackbirds and American Robins in southeast Idaho. ROBYN P. VASTERLING, EDWARD O. GARTON and JOHN T. RATTI, Dept. Fish & Wildl. Res., Univ. Idaho, Moscow, ID.
- 16:45 206 Vacant

Session 6I (Vieux Carré - A). Miscellaneous. Falk Huettmann, chair.

- 16:00 207 Avifaunistic variation along a gradient of coffee agroecosystem simplification. CALEB GORDON, Dept. Biol., Lake Forest College, Lake Forest, IL.
- 16:15 208 Historic vs. current populations of an abundant species: are there too many Double-crested Cormorants? LINDA R. WIRES and FRANCESCA J. CUTHBERT, Dept. Fish, Wildl. & Cons. Bio., Univ. Minnesota, St. Paul, MN.
- 16:30 209 Raptor electrocution on power lines: problem assessment, mitigation, and monitoring. ROBERT N. LEHMAN, U.S. Geol. Surv., For. & Range. Ecosys. Sci. Center, Snake River Field St., Boise, ID; PATRICIA L. KENNEDY, Oregon State Univ., Union Exp. St., Union, OR; and JULIE A. SAVIDGE, Dept. Fish. & Wildl. Biol., Colorado State Univ., Fort Collins, CO.

SCIENTIFIC SESSIONS--THURSDAY

- 16:15 208 Historic vs. current populations of an abundant species: are there too many Double-crested Cormorants? LINDA R. WIRES and FRANCESCA J. CUTHBERT, Dept. Fish, Wildl. & Cons. Bio., Univ. Minnesota, St. Paul, MN.
- 16:30 209 Raptor electrocution on power lines: problem assessment, mitigation, and monitoring. ROBERT N. LEHMAN, U.S. Geol. Surv., For. & Range. Ecosys. Sci. Center, Snake River Field St., Boise, ID; PATRICIA L. KENNEDY, Oregon State Univ., Union Exp. St., Union, OR; and JULIE A. SAVIDGE, Dept. Fish. & Wildl. Biol., Colorado State Univ., Fort Collins, CO.
- 16:45 210 Feeding strategies of the Loggerhead Shrike: experiments with a wild shrike. SUMITA PRASAD, Gulf Coast Bird Observatory, Lake Jackson, TX; and GEORGE L. FARNSWORTH, Dept. Nat. Sci., Univ. Houston-Downtown, Houston, TX.

Session 6J (Poydras). Shrike biology. Jonathan Plissner, chair.

- 16:00 211 Cage design and considerations used for releasing the endangered San Clemente Loggerhead Shrikes into the wild. DON L. BRUBAKER and JENNIFER M. TURNER, Inst. Wildl. Stud., San Diego, CA.
- 16:15 212 Post-release survival of captive-reared San Clemente Loggerhead Shrikes: a federally endangered subspecies. ERIC L. KERSHNER, DON L. BRUBAKER, JENNIFER M. TURNER, Inst. Wildl. Stud., San Diego, CA; JONATHAN PLISSNER, Point Reyes Bird Observatory, Stinson Beach, CA; and DAVID K GARCELON, Inst. Wildl. Stud., Arcata, CA.
- 16:30 213 Survivorship and productivity of supplementally fed and non-supplementally fed San Clemente Loggerhead Shrikes. JENNIFER M. TURNER, DON L. BRUBAKER, ERIC L. KERSHNER, Inst. Wildl. Stud., San Diego, CA; JONATHAN PLISSNER, Point Reyes Bird Observ., Stinson Beach, CA.; and DAVE GARCELON, Inst. Wildl. Stud., Arcata, CA.
- 16:45 214 Demographic variation and supplementation of the wild population as factors associated with population increases in San Clemente Loggerhead Shrikes. JONATHAN PLISSNER, NILS WARNOCK, HEATHER CARLISLE, ASHLEIGH BLACKFORD, Point Reyes Bird Observ., Stinson Beach, CA, ERIC L. KERSHNER, Inst. Wildl. Stud., San Diego, CA; JEFFREY OPDYCKE, Zool. Soc. San Diego, San Diego, CA; and KELLY BROCK, US Navy, Navy Region Southwest, San Diego, CA.
- 18:30 - 21:30 Picnic, House of Blues, Decatur St. in French Quarter

Friday, 27 Sep 2002

- 08:00 Continental Breakfast, Hotel Inter-Continental, Third Floor
- 09:00 P3 Plenary 3 (LaSalle BC; and video feed to overflow location to be announced).
Twenty-five primary evolutionary insights from the phylogeographic revolution in population genetics. JOHN C. AVISE, Dept. Genetics, Univ. Georgia, Athens, GA.
- 10:00 Coffee Break, Hotel Inter-Continental, Third Floor
- Symposium L (Vieux Carré - B). Conservation and ecology of disturbance-dependent birds. F. R. Thompson III & J. Brawn, organizers.
- 10:30 S088 Loss of natural disturbances and the decline of early successional birds in the deciduous forests of eastern United States and Japan. ROBERT A. ASKINS, Dept. Zool., Connecticut Coll., New London, CT.
- 10:45 S089 Fire cycle and source-sink dynamics of Florida Scrub-Jays on the Lake Wales Ridge. JOHN W. FITZPATRICK, Cornell Lab. Ornithol., Ithaca, NY, GLEN E. WOOLFENDEN and REED BOWMAN, Archbold Biol. Sta., Lake Placid, FL.
- 11:00 S090 Effects of fire regime on birds in vegetation communities of the southeastern U.S. R. TODD ENGSTROM, Tall Timbers Res. Sta., Tallahassee, FL.
- 11:15 S091 The role of disturbance in the ecology and conservation of Red-cockaded Woodpeckers. JEFFREY R. WALTERS, Dept. Biol., Virginia Tech, Blacksburg, VA.
- 11:30 S092 Viability of shrubland birds in natural and managed forest habitats in central hardwoods landscapes. ALIX D. FINK, Dept. Nat. Sci., Longwood Coll., Farmville, VA; and FRANK R. THOMPSON, III, USDA For. Serv., North Central Res. Sta., Columbia, MO.
- 11:45 S093 The role of disturbance in the ecology and conservation of the endangered Black-capped Vireo. JOSEPH GRZYBOWSKI, Coll. Math. Sci., Univ. Central Oklahoma, Edmond, OK and Sam Noble Oklahoma Mus. Nat. Hist., Norman, OK; CHIP KIMBALL, Wichita Mountains Wildl. Refuge, USFWS, Indianola, OK; LAURA SANCHEZ, DAVID CIMPRICH, The Nature Conservancy of Texas, San Antonio, TX; and JOHN CORNELIUS, Fort Hood Mil. Res., U.S. Army, Killeen, TX.
- 12:00 S094 Demographics of Chestnut-sided Warblers in relation to forest disturbance and succession in the Northeast. DAVID I. KING and RICHARD M. DeGRAAF, Northeastern Res. Sta., Amherst, MA.
- 12:15 S095 Extirpation of Golden-winged Warblers: habitat loss and/or hybridization? JOHN L. CONFER, Biol. Dept., Ithaca Coll., Ithaca, NY.
- 12:30 S096 How does disturbance affect populations and communities of birds? JEFFREY D. BRAUN, Dept. Nat. Res. Env. Sci., Univ. Illinois at Urbana-Champaign, Champaign, IL; SCOTT K. ROBINSON, Dept. Anim. Biol., Univ. Illinois at Urbana-Champaign, and FRANK R. THOMPSON III, North Cent. For. Exp. Sta., Columbia, MO.
- Symposium M (Vieux Carré - A). Problems and opportunities in avian deep phylogenetics. J. Harshman & A. Driskell, organizers.
- 10:30 S097 Avian phylogenetics from beginning to end and top to bottom: the challenges never change. JOEL CRACRAFT, Am. Mus. Nat. Hist., New York, NY.
- 11:00 S098 Congruent avian phylogenies from mt and nuclear genes: differences in evolutionary models. DAVID P. MINDELL, JAIME GARCIA-MORENO, Mus. Zool. and Dept. Biol., Univ. Michigan, Ann Arbor, MI, and MICHAEL SORENSON, Dept. Biol., Boston Univ., Boston, MA.
- 11:15 S099 Base composition heterogeneity in avian exons and phylogenetic inference. GEORGE F. BARROWCLOUGH, JEFF G. GROTH and F. KEITH BARKER, Am. Mus. Nat. Hist., New York, NY.
- 11:30 S100 Identifying G&C bias and the effect on phylogeny reconstruction. ALLAN J. BAKER, OLIVER HADDRATH and TARA A. PATON, Dept. Ornithol., Royal Ontario Mus., Toronto, ON.
- 11:45 S101 Remembering early neornithine evolution, introns versus exons. WILLIAM S. MOORE, Dept. Biol. Sci., Wayne State Univ., Detroit, MI.

SCIENTIFIC SESSIONS--FRIDAY

- 12:00 S102 Using indel characters to infer phylogeny. JOHN HARSHMAN, San Jose, CA.
 12:15 S103 Assessing the phylogenetic information content of the Genbank database: how data mining can inform avian phylogenetics. AMY DRISKELL, Ctr. Pop. Biol., Univ. California, Davis, CA; RICK REE, Dept. Evol. & Ecol., Univ. California, Davis, CA; and MIKE SANDERSON, Ctr. Pop. Biol., Univ. California, Davis, CA.

Session 7B (LaSalle - BC). Ecology. Heather M. Swanson, chair.

- 10:30 215 *Survival and habitat use of wild Northern Bobwhite at Camp Robinson Wildlife Demonstration Area. STEVEN C. FOWLER, JAMES C. BEDNARZ, Dept. Biol. Sci., Arkansas State Univ., Jonesboro, AR; CHRIS KELLNER and MATTHEW D. LEWIS, Dept. Biol., Arkansas Tech Univ., Russellville, AR.
 10:45 216 A 14-year assessment of landscape sensitivity by forest songbirds of Ontario. ANDRÉ DESROCHERS, For. & Geomatics (CRBF), Univ. Laval, Québec, PQ; VÉRONIQUE ST-LOUIS, Forest Bird Monitoring Prog. (FBMP), Canadian Wildl. Serv., Nepean, ON; MIKE CADMAN, Ontario Breeding Bird Atlas, Univ. Guelph, Guelph, ON; HEATHER J. DEWAR and DANIEL WELSH, FBMP, Canadian Wildl. Serv., Nepean, ON.
 11:00 217 *The response of ponderosa pine forest birds to differing forest structure along the Colorado Front Range. HEATHER M. SWANSON, ALEXANDER CRUZ, Dept. EPO Biol., Univ. Colorado, Boulder, CO, JOHN W. PRATHER, Northern Arizona Univ., Flagstaff, AZ, and JAMESON F. CHACE, Villanova Univ., Villanova, PA.
 11:15 218 *Habitat partitioning among wintering grassland passerines in a Texas Mid-Coastal Prairie. DAMION E. MARX and SALLIE J. HEJL, Dept. Wildl. & Fish. Sci., Texas A&M Univ., College Station, TX.
 11:30 219 *Current and presettlement location of closed-canopy forest habitat in Holly Springs National Forest: implications for songbird conservation and fire management. STEVEN M. AQUILANI, Dept. Biol., Delaware Co. Coll., Media, PA, and J. STEPHEN BREWER, Dept. Biol., Univ. Mississippi, University, MS.
 11:45 220 *The nature of multiple edge effects on bird distributions. ROBERT J. FLETCHER, Jr., Iowa Coop. Fish & Wildl. Res. Unit, Dept. Animal Ecol., Iowa State Univ., Ames, IA, and ROLF R. KOFORD, USGS-BRD, Iowa Coop. Fish & Wildl. Res. Unit, Iowa State Univ.
 12:00 221 *Impact of habitat degradation on birds breeding in the life zone of tropical dry forests of southern Jamaica. LEO R. DOUGLAS, Univ. West Indies, Jamaica, T. W. SHERRY, Tulane Univ., New Orleans, LA, and PETER VOGEL, Univ. West Indies, Jamaica.
 12:15 222 *Spatiotemporal variability of breeding birds in an undisturbed northern hardwoods forest. PATRICK J. DORAN and RICHARD T. HOLMES, Dept. Biol. Sci., Dartmouth Coll., Hanover, NH.

Session 7C (Cabildo). Breeding Biology. James W. Rivers, chair.

- 10:30 223 Evaluation of a reproductive index to estimate Dickcissel reproductive success. JAMES W. RIVERS, DONALD P. ALTHOFF, PHILIP S. GIPSON, Kansas Coop. Fish & Wildl. Res. Unit, Div. Biol., Kansas State Univ., Manhattan, KS; and JEFFREY S. PONTIUS, Dept. Stat., Kansas State Univ.
 10:45 224 Seven year analysis on productivity and nesting success of Thick-billed Parrots. TIBERIO MONTECUBIO-RICO, Facultad de Biología, UMSNH, Morelia Mich., México, and ERNESTO ENKERLIN, Tecnológico de Monterrey, Monterrey, N. L., Méx.
 11:00 225 Demography of Southwestern Willow Flycatchers in central Arizona. APRIL A. WOODWARD, CHARLES E. PARADZICK and TRACY D. McCARTHEY, Arizona Game Fish Dept., Phoenix, AZ.
 11:15 226 *The importance of extreme weather events to the breeding biology of a high-elevation honeycreeper in Hawaii. WENDY A. KUNTZ. Prog. EECB, Dept. Zool., Univ. Hawaii at Manoa, Manoa, HI.
 11:30 227 *Group membership dynamism in the cooperatively polyandrous Galápagos Hawk. KENNETH M. LEVENSTEIN, Dept. Biol. Sci., Arkansas State Univ., Jonesboro, AR; MICHELLE DONAGHY CANNON, Dept. For. Sci., Oregon State Univ., Corvallis OR; BRIAN J. CANNON, Marine Fish. Serv., Ukiah, CA; JAMES C. BEDNARZ, Dept. Biol. Sci., Arkansas State Univ., JENNIFER L. BOLLMER and PATRICIA G. PARKER,

SCIENTIFIC SESSIONS--FRIDAY

- Dept. Biol, Univ. Missouri-St. Louis, St. Louis, MO.
- 11:45 228 Hatching failure and embryonic mortality within a Red-cockaded Woodpecker population in South Carolina: current conditions and traditional constraints. NANCY E. JORDAN, DAVID L. OTIS, South Carolina Fish & Wildl. Res. Unit, Clemson Univ., Clemson, SC; RALPH COSTA, Red-cockaded Woodpecker Field Office, U.S. Fish & Wildl. Serv., Clemson, SC; and SIDNEY A. GAUTHREAU, Dept. Biol. Sci., Clemson Univ., Clemson, SC.
- 12:00 229 Growth, size and sex of last-laid, last-hatched Tree Swallow offspring. L. SCOTT JOHNSON, LARRY WIMMERS, SARA CAMPBELL and LUCY HAMILTON, Biol. Dept., Towson Univ., Towson, MD.
- 12:15 230 50:50 offspring sex ratios in Savannah Sparrows: a 14-year study. NATHANIEL T. WHEELWRIGHT and RACHEL SEABURY, Dept. Biol., Bowdoin Coll., Brunswick, ME.

Session 7D (Pan-Am Auditorium). Foraging and diet. Dawn A. Sherry, chair.

- 10:30 231 Regional variation in the diet of the Ocellated Turkey in the Yucatan Peninsula. SOPHIE CALMÉ and ESMERALDA DUARTE, Ecosur, Chetumal, Mexico.
- 10:45 232 Are insects an alternative energy source for hummingbirds? an experimental study in Green-backed Firecrests (*Sephanoides sephanoides*). MA. J. FERNÁNDEZ J. and M. V. LÓPEZ-CALLEJA, Centro de Estudios Avanzados en Ecología y Biodiversidad, Departamento de Ecología, P. Universidad Católica de Chile, Chile.
- 11:00 233 Vacant
- 11:15 234 Flock foraging by wintering wading birds in a Texas coastal marsh. DAWN A. SHERRY, Caesar Kleberg Wildl. Res. Inst., Texas A&M Univ.-Kingsville, Texas A&M Univ., College Station, TX; FELIPE CHAVEZ-RAMIREZ, Platte River Whooping Crane Trust, Wood River, NE; and R. DOUGLAS SLACK, Texas A&M Univ.
- 11:30 235 Foraging behavior of birds in an artificially structured tropical habitat: a test of plant preference and behavioral plasticity. JAMES A. ROTENBERG, Dept. Biol., Univ. California, Riverside, CA.
- 11:45 236 Covariation between prey abundance and Northern Goshawk fecundity on the Kaibab Plateau, Arizona. SUSAN R. SALAFSKY, USDA For. Serv., Rocky Mountain Res. Sta., Fort Collins, CO.
- 12:00 237 *Dietary response and demography in a population of Imperial Eagles in a spatially heterogeneous environment in Kazakhstan. TODD KATZNER, Dept. Biol., Arizona State Univ., Tempe, AZ, EVGENY BRAGIN, Naurzum Zapovednik, Karamendy, Kazakhstan, STEVEN KNICK, USGS-FRESC, Boise, ID, and ANDREW SMITH, Dept. Biol., Arizona State Univ.
- 12:15 238 Avian insectivory limits herbivorous insects in a Neotropical forest canopy. SUNSHINE A. VAN BAEL, Dept. Animal Biol., Univ. Illinois Urbana-Champaign, Champaign, IL, JEFFREY D. BRAWN, Dept. Nat. Res., Univ. Illinois Urbana-Champaign, and SCOTT K. ROBINSON, Dept. Animal Biol., Univ. Illinois Urbana-Champaign.

Session 7E (Pontalba). Conservation. John M. Marzluff, chair.

- 10:30 239 Nest success and abundance of grassland birds in native pasture, seeded pasture, and hay fields: assessing the conservation value of cultivated lands converted to perennial forage in Saskatchewan. D. GLEN McMASTER and STEPHEN. K. DAVIS, Saskatchewan Wetland Conserv. Corp. Regina, SK.
- 10:45 240 Measuring spatial scales of avian reproductive success combining MAPS and the USGS National Land Cover datasets. PHILIP NOTT and DAVID F. DeSANTE, Institute for Bird Populations, CA.
- 11:00 241 Are our national parks safe for nesting birds? JOHN M. MARZLUFF and MATTHIAS LEU, Coll. For. Res. Univ. Washington, Seattle, WA.
- 11:15 242 Update on the conservation and recovery of the endangered Grenada Dove. DAVID E. BLOCKSTEIN, Natl. Council Sci. & Environ., Washington, DC, BONNIE L. RUSK, Dry Forest Project, Grenada, W.I. and STANLEY A. TEMPLE, Dept. Wildl. Ecol., Univ. Wisconsin, Madison, WI.
- 11:30 243 Current status of the captive release program for the Puerto Rican Parrot (*Amazona vittata*). THOMAS H. WHITE, Jr., U.S. Fish & Wildl. Serv., Rio Grande, PR.
- 11:45 244 Struggling out of the bottleneck: recovery of the Puerto Rican Parrot from 1973 to 2000. JOSEPH M. WUNDERLE, Intl. Inst. Trop. For., USDA For. Serv., PR, NOEL F.

SCIENTIFIC SESSIONS--FRIDAY

R. SNYDER, Portal, AZ, STEVEN R. BEISSINGER, Div. Ecosys. Sci, Univ. California-Berkeley, Berkeley, CA, and J. MICHAEL MEYERS, USGS, Univ. Georgia, Athens, GA.

- 12:00 245 Developing biological objectives for landbirds in the Colorado Plateau/Southern Rockies Bird Conservation Region. CAROL J. BEARDMORE, Partners in Flight, Phoenix, AZ.
- 12:15 246 Land use management and songbird diversity in the Adirondack Park, NY. MICHAEL J. GLENNON and WILLIAM F. PORTER, Dept. Env. For. Biol., State Univ. NY, Coll. Env. Sci. For., Syracuse, NY.

Session 7J (Poydras). Cowbird biology. Mark E. Hauber, chair.

- 10:30 247 Is host use by sympatric cowbirds random? KEVIN ELLISON, Dept. Zool., Univ. Manitoba, Winnipeg, MB.
- 10:45 248 *Does offspring sex affect host use by sympatric cowbirds? KEVIN ELLISON, Dept. Zool., Univ. Manitoba, Winnipeg, MB.
- 11:00 249 *Do Brown-headed Cowbirds exhibit density-dependent habitat selection in tallgrass prairie landscapes? WILLIAM E. JENSEN and JACK F. CULLY, Jr., Kansas Coop. Fish and Wildl. Res. Unit, Div. of Biol., Kansas State Univ., Manhattan, KS.
- 11:15 250 First contact: conspecific social association and species recognition in a brood parasite. MARK E. HAUBER, Dept. Neurobio. & Behav., Cornell Univ., Ithaca, NY and Dept. Integrative Biol., Univ. California, Berkeley, CA.
- 11:30 251 Landscape effects mediate breeding cowbird habitat selection in midwestern forests. CHRISTINE A. HOWELL, Biol. Dept., Univ. Missouri, St. Louis, MO; WILLIAM DIJAK, FRANK THOMPSON III, Nor. Central For. Exp. Sta., Columbia, MO
- 11:45 252 Breeding biology of brood parasitic cowbirds characterized by parent-offspring and sib-group reconstruction. BILL M. STRAUSBERGER and MARY V. ASHLEY, Dept. Biol., Univ. Illinois, Chicago, IL.
- 12:00 253 Character shift among sympatric brood parasites in Arizona: evidence of competition for hosts? JAMESON F. CHACE, Dept. EPO Biol., Univ. Colorado, Boulder, CO.
- 12:15 254 Parasite invasion, host demography and extinction risk. PETER ARCESE, Centre for Applied Conser. Res., Dept. For. Sci., Univ. British Columbia, Vancouver, BC.

12:30 Lunch Break; for options see FOOD section, p. 8 above

Symposium N (Vieux Carré - A). Satellite telemetry of birds. K. D. Meyer, J. A. Coulson & B. A. Millsap, organizers.

- 14:00 S104 Satellite telemetry of Alaskan seabirds. SCOTT A. HATCH, VERENA A. GILL, DAVID C. DOUGLAS, and DANIEL M. MULCAHY, U.S. Geol. Surv., Alaska Biol. Sci. Center, Anchorage, AK.
- 14:15 S105 Habitats used by Prairie Falcons during the non-nesting season. KAREN STEENHOF, MARK R. FULLER, MICHAEL N. KOCHERT, USGS For. & Rangeland Ecosys. Sci. Center, Boise, ID, and KIRK K. BATES, Boise State Univ., Raptor Res. Center, Boise.
- 14:30 S106 *Year round movements and habitats of Northern Goshawks breeding in Utah using satellite telemetry. SARAH A. SONSTHAGEN, CLAYTON M. WHITE, Dept. Zool., Brigham Young Univ., Provo, UT, and RONALD RODRIGUEZ, USDA For. Serv. Dist. Office, Cedar City, UT.
- 14:45 S107 Conservation of migratory Golden Eagles in relation to large-scale land use changes in western North America. CAROL L. McINTYRE, Natl. Park Serv., Fairbanks, AK; MICHAEL W. COLLOPY, Univ. Nevada, Reno, NV; and DAVID C. DOUGLAS, USGS/BRD, Juneau, AK.
- 15:00 S108 Post-fledgling dispersal and important use areas of juvenile and subadult Bald Eagles from west central Florida nests. ELIZABETH K. McCONNELL, BRIAN A. MILLSAP, Florida Fish & Wildl. Conser. Comm., Tallahassee, FL; and ANTHONY STEFFER, Raptor Management Consultants, Tampa, FL.
- 15:15 S109 Radio-tracking wintering eagles by satellite in Eastern North America: gee whiz, it's cool to know where they go; but hey, there's more! PETER E. NYE, NYSDEC, Albany, NY; and BLANCHE TOWN, NYSDEC, Dexter, NY.

SCIENTIFIC SESSIONS--FRIDAY

- 16:00 S110 Post-fledging movements of Great Egrets from breeding colonies in central Florida. TIMOTHY F. BREEN, Florida Fish & Wildl. Conser. Comm., Ocala, FL, and JAMES A. RODGERS Jr., Florida Fish & Wildl. Conser. Comm., Gainesville, FL.
- 16:15 S111 Satellite tracking of eastern population Tundra Swans. SCOTT A. PETRIE and KERRIE L. WILCOX, Long Point Waterfowl & Wetlands Research Fund, Bird Studies Canada, Port Rowan, ON.
- 16:30 S112 Migration and wintering areas of American Bitterns from north-central United States as determined by satellite and vhf telemetry, 1998-2001. GARY HUSCHLE, Agassiz Natl. Wildl. Refuge, Middle River, MN; JOHN E. TOEPFER, Plover, WI; and DAVID C. DOUGLAS, USGS, Alaska Sci. Center, Douglas, AK.
- 16:45 S113 A study of raptor migration and wintering in the Old World using satellite telemetry. BERND-U. MEYBURG and CHRISTIANE MEYBURG, WWGBP, Berlin, Germany.
- 17:00 S114 *Migratory patterns of North American Peregrine Falcons: the origin factor. MARCEL A. GAHBAUER, DAVID M. BIRD, Avian Sci. & Conser. Centre, McGill Univ., Montreal, PQ, and GEOFFREY HOLROYD, Canadian Wildl. Serv., Edmonton.
- 17:15 S115 Transequatorial migration and conservation biology of the Swallow-tailed Kite. KENNETH D. MEYER, Avian Research and Conservation Inst., Gainesville, FL.

Session 8B (LaSalle - BC). Ecology. Paul B. Hamel, chair.

- 14:00 255 *The importance of southern Appalachian wetlands to breeding birds; the role of beaver. JASON BULLUCK, Dept. Biol., Appalachian State Univ., Boone, NC.
- 14:15 256 *Acadian Flycatchers in Midwestern riparian forests -- local- and landscape-level patterns. MARJA H. BAKERMANS and AMANDA D. RODEWALD, School Nat. Res., Ohio State Univ., Columbus, OH.
- 14:30 257 Microclimate conditions of Burrowing Owl nests in artificial burrow systems. RYAN S. BRADY, JAMES R. BELTHOFF and COLLEEN E. MOULTON, Dept. Biol. and Raptor Res. Center, Boise State Univ., Boise, ID.
- 14:45 258 *Birds of a palm-dominated terra firme forest: the affect of habitat heterogeneity on regional avian diversity. J. W. ARMACOST, Jr., Dept. Biol. Sci., Illinois State Univ., Normal, IL.
- 15:00 259 *Invasion of riparian forests by exotic shrubs impacts on nesting birds. KATHI L. BORGMANN and AMANDA D. RODEWALD, School Nat. Res., Ohio State Univ., Columbus, OH.
- 15:15 260 *Farming for shorebirds: environmental and agricultural predictors of non-breeding habitat use in the Fraser Delta. LESLEY J. EVANS OGDEN, DAVID B. LANK, Centre Wildl. Ecol., Dept. Biol. Sci., Simon Fraser Univ., Burnaby, BC, and SHABTAI BITTMAN, Pacific Agri-Food Research Centre, Agassiz, BC.

Session 8C (Cabildo). Breeding biology. Cameron K. Ghalambor, chair.

- 14:00 261 Extreme variability in Tufted Puffin reproductive performance from 1975 - 2000: the effects of ocean climate. CARINA GJERDRUM, Dept. Ecol. Evol. Biol., Univ. Connecticut, Storrs, CT; ANNE VALLEÉ, Dept. Biol., Univ. British Columbia, Vancouver, BC; JOHN L. RYDER, Biol. Sci., Simon Fraser Univ., Burnaby, BC; DOUGLAS F. BERTRAM, Canadian Wildl. Serv., Sidney, BC; and COLLEEN CASSADY ST. CLAIR, Dept. Biol., Univ. Alberta, Edmonton, AB.
- 14:15 262 Nesting habitat of the Aplomado Falcon in Chihuahua, Mexico. ALBERTO MACIAS-DUARTE, The Peregrine Fund, Chihuahua, Mexico, ALBERTO LAFON-TERRAZAS, Universidad Autónoma de Chihuahua, Chihuahua, México; ANGEL B. MONTOYA, The Peregrine Fund, Boise ID, and ROBERT TAFANELLI, Border Wildl. Consultants, Las Cruces NM.
- 14:30 263 Nest site selection and watershed location influences reproductive success of American Dippers. CHRISTY A. MORRISSEY, Dept. Biol. Sci., Simon Fraser Univ., Burnaby, BC.
- 14:45 264 The effects of human recreation on American Oystercatcher reproductive success and nesting habitat selection in Georgia. R. CLAY GEORGE, SARA H. SCHWEITZER, D. B. Warnell School For. Res., Univ. Georgia, Athens, GA; CHRISTOPHER J. FONNESBECK, Georgia Coop. Fish & Wildl. Res. Unit, Univ. Georgia; and BRADFORD WINN, Georgia Dept. Nat. Res.
- 15:00 265 Effects of cattle grazing on the nesting success of birds in riparian and Gambel oak

SCIENTIFIC SESSIONS--FRIDAY

- pastures in southwest Colorado. CATHERINE P. ORTEGA and JOSEPH C. ORTEGA, Dept. Biol., Fort Lewis Coll., Durango, CO.
- 15:15 266 Exploitation of conifer resin by nesting Red-breasted Nuthatches may ameliorate competitive and predatory interactions. CAMERON K. GHALAMBOR, Dept. Biol., Univ. California. Riverside, CA.
- Session 8D (Pan-Am Auditorium). Vocalizations. Paul M. Nolan, chair.
- 14:00 267 Audience effect on Pinyon Jay vocalizations. CHRISTINE DAHLIN, Avian Cognition Lab., Dept. Biol. Sci., Northern Arizona Univ., Flagstaff, AZ.
- 14:15 268 Geographic variation in the simple song of the Henslow's Sparrow: evidence for evolutionarily significant units? SIRI B. IBARGÜEN, Dept. Evol. Ecol. & Organ. Biol., Ohio State Univ., Columbus, OH; MARK S. WOODREY, U.S. Fish & Wildl. Serv., Jackson, MS; DOUGLAS A. NELSON and THOMAS A. WAITE, Dept. Evol. Ecol. & Organ. Biol., Ohio State Univ.
- 14:30 269 Female choice for song characteristics in the House Finch. PAUL M. NOLAN and GEOFFREY E. HILL, Dept. Biol. Sci., Auburn Univ., Auburn, AL.
- 14:45 270 Vocal differences among Caribbean endemic Adelaide's, Barbuda and St. Lucia Warblers. CYNTHIA A. STAICER, Dept. Biol., Dalhousie Univ., Halifax, NS.
- 15:00 271 Factors influencing mate choice by female Burrowing Owls. PATRICIA C. ARROWOOD, CAROL FINLEY, Dept. Fish. & Wildl. Sci., New Mexico State Univ., Las Cruces, NM, and BRUCE C. THOMPSON, Dept. Fish. & Wildl. Sci. and USGS, New Mexico Coop. Fish & Wildl. Res. Unit, New Mexico State Univ.
- 15:15 272 Song ranging in incubating Blue-headed Vireos. EUGENE S. MORTON, Smithsonian Inst., Front Royal, VA; JOAN HOWLETT, Edinboro, PA; and NICOLE KOPYSH, Burlington, ON.

Session 8E (Pontalba). Systematics. Carla Cicero, chair.

- 14:00 273 *The causes of differential rates of molecular evolution in bird mitochondrial DNA. CHRISTOPHER C. WITT, Dept. Biol. Sci. and Mus. Nat. Sci., Louisiana State Univ., Baton Rouge, LA.
- 14:15 274 *Phylogenetics and geographic variation of tinkerbirds (*Pogoniulus*): implications for African biogeography. ROBERT G. MOYLE, Dept. Biol. Sci. and Mus. Nat. Sci., Louisiana State Univ., Baton Rouge, LA.
- 14:30 275 Molecular phylogeny of passerines: study of the Muscicapoidea. ALICE CIBOIS, Am. Mus. Nat. Hist., New York, NY and Nat. Hist. Mus. Geneva, Switzerland, JULIE FEINSTEIN and JOEL CRACRAFT, Am. Mus. Nat. Hist., New York, NY.
- 14:45 276 Mitochondrial perspective on systematics of rosy-finches (*Leucosticte*). SERGEI V. DROVETSKI, Dept. Ecol. Evol. Behav., Univ. Minnesota, St. Paul, MN, and SIEVERT ROHWER, Burke Mus. and Dept. Zool., Univ. Washington, Seattle, WA.
- 15:00 277 The role of ecologic diversification in sibling speciation of *Empidonax* flycatchers: multigene evidence from mtDNA. CARLA CICERO, Mus. Vert. Zool., Univ. Calif., Berkeley, CA, and NED K. JOHNSON, Mus. Vert. Zool. and Dept. Integrative Biol., Univ. Calif., Berkeley, CA.
- 15:15 278 A molecular test of the superfamily Muscicapoidea: a minor tear in the tapestry. GARTH SPELLMAN and GARY VOELKER, Barrick Mus., Univ. Nevada, Las Vegas, NV.

Session 8H (Vieux Carré - B). Breeding biology. Marty L. Leonard, chair.

- 14:00 279 *Consequences of nesting date on nesting success and juvenile survival in White Ibises. JOHN D. SEMONES and PETER C. FREDERICK, Dept. Wildl. Ecol. & Cons., Univ. Florida, Gainesville, FL.
- 14:15 280 The influence of brood size on parental provisioning and the time to fledging in nestling Northern Mockingbirds. C. G. SIMS, Dept. Biol., Univ. Mississippi, University, MS, and R. L. HOLBERTON, Dept. Biol., Univ. Maine, Orono, ME.
- 14:30 281 Error and begging by nestling birds. MARTY L. LEONARD and ANDREW G. HORN, Dept. Biol., Dalhousie Univ., Halifax, NS.
- 14:45 282 Are nestlings acting as a cue for modulating the adrenocortical response to stress?

SCIENTIFIC SESSIONS--FRIDAY

- C. M. WILSON, Dept. Biol., Hollins Univ., Roanoke, VA; and R. L. HOLBERTON, Dept. Biol., Univ. Maine, Orono, ME.
- 15:00 283 Contrasting differences in island and mainland populations of White-winged Fairy-Wrens: a release of sexual selection. MELANIE K. RATHBURN and BOB MONTGOMERIE, Dept. Biol., Queen's Univ., Kingston, ON.
- 15:15 284 Life history differences between populations of a Neotropical thrush: nest predation or food limitation? VALENTINA FERRETTI, PAULO E. LLAMBÍAS, Dept. Gen., Ecol. & Evol., Univ. Buenos Aires, Buenos Aires, and THOMAS E. MARTIN, Montana Coop. Wildl. Res. Unit, Univ. Montana, Missoula, MT.

Session 8J (Poydras). Disease and parasites. Daniel A. Cristol, chair.

- 14:00 285 Epidemic of bill deformities among Black-capped Chickadees and other birds in Alaska. COLLEEN M. HANDEL, USGS Alaska Sci. Center, Anchorage, AK; KIMBERLY A. TRUST, U.S. Fish & Wildl. Serv., Anchorage, AK; STEVE M. MATSUOKA, LISA M. PAJOT and SANDRA L. TALBOT, USGS, Alaska Sci. Center.
- 14:15 286 Do parasites cause reduced reproductive success among late-breeding birds? RUSSELL D. DAWSON, Biol. Prog., Univ. Northern British Columbia, Prince George BC.
- 14:30 287 Mycoplasmal conjunctivitis in wild House Finches: estimating parameters of disease models. CRISTINA R. FAUSTINO and EVAN G. COOCH, Dept. Nat. Res., Cornell Univ., Ithaca, NY.
- 14:45 288 Feather-busting bacteria do not degrade feathers on live birds. DANIEL A. CRISTOL and JESSICA L. ARMSTRONG, Dept. Biol., Coll. William & Mary, Williamsburg, VA.
- 15:00 289 Host-parasite relationships of the polyandrous Galápagos Hawk: coevolution and ecology. NOAH K. WHITEMAN and PATRICIA G. PARKER, Dept. Biol., Univ. Missouri-St. Louis, St. Louis, MO.
- 15:15 290 Microbial infection of unincubated avian eggs: a constraint on incubation behavior and hatching patterns? MARK I. COOK, STEVEN R. BEISSINGER, Ecosys. Sci. Div., Univ. California, Berkeley, CA, GARY A. TORANZOS, R.C.M.I., Univ. Puerto Rico, Rio Piedras; and WAYNE J. ARENDT, USDA For. Serv., IITF/Sabana Field Res. Sta., Palmer, PR.
- 15:30 Refreshment Break, Hotel Inter-Continental, Third Floor

Session 9B (LaSalle - BC). Ecology. James J. Giocomo, chair.

- 16:00 291 *Nest predation on Sabine's Gulls: the influence of alternative prey. IAIN J. STENHOUSE, Biopsychol. Programme, Memorial Univ., St. John's, NF; H. GRANT GILCHRIST, Canadian Wildl. Serv., Hull, PQ; and WILLIAM A. MONTEVECCHI, Biopsychol. Programme, Memorial Univ.
- 16:15 292 *The effects of recreational trail-use on the nesting ecology and behavior of American Robins and Yellow Warblers. WILLIAM W. MERKLE, Dept. EPO Biol., Univ. Colorado, Boulder, CO.
- 16:30 293 How much is Great Horned Owl predation contributing to limitation of a Swallow-tailed Kite population? JENNIFER O. COULSON, Dept. Ecol. & Evol. Biol., Tulane Univ., New Orleans, LA.
- 16:45 294 Predicting Wood Thrush nest success: local habitat versus landscape factors. MELANIE J. L. DRISCOLL and THERESE M. DONOVAN, USGS Vermont Coop. Fish & Wildl. Res. Unit, Burlington, VT.
- 17:00 295 *A preliminary test of the primary nest predator/nest predator diversity hypothesis. KEITH P. LEWIS and WILLIAM A. MONTEVECCHI, Biopsychol. Programme, Memorial Univ. Newfoundland, St. John's, NF.
- 17:15 296 Vacant

Session 9D (Pan-Am Auditorium). Breeding biology. Joseph C. Ortega, chair.

- 16:00 297 The predictability of predation in American Robin nests in southwest Colorado. JOSEPH C. ORTEGA and CATHERINE P. ORTEGA, Dept. Biol., Fort Lewis Coll., Durango, CO.
- 16:15 298 Productivity and nest site selection of Swainson's Hawks in southeastern Arizona.

SCIENTIFIC SESSIONS--FRIDAY

CATHERINE A. NISHIDA, School Renew. Nat. Res., Univ. Arizona, Tucson, AZ; STEPHEN DeSTEFANO, Massachusetts Coop. Fish & Wildl. Res. Unit, Univ. Massachusetts, Amherst, MA; CLINT W. BOAL, Texas Coop. Fish & Wildl. Res. Unit, Texas Tech. Univ., Lubbock, TX; and ROYDEN J. HOBBS School Renew. Nat. Res., Univ. Arizona.

- 16:30 299 Could incubation costs drive latitudinal variation in clutch size? A look at variation in incubation periods. CAREN B. COOPER, WES M. HOCHACHKA, ANDRE DHONDT, Cornell Lab. Ornithol., Ithaca, NY, and GREG BUTCHER, Partners in Flight, Brookfield, WI.
- 16:45 300 Phenotypic variation in reproductive traits of female Eastern Kingbirds: female or site effects? MICHAEL T. MURPHY, Dept. Biol., Portland State Univ., Portland, OR.
- 17:00 301 *Ovenbird population dynamics in response to forest management in northern Minnesota. BRADY J. MATTSSON, Warnell School For. Res., Univ. Georgia, Athens, GA, and GERALD J. NIEMI, Dept. Biol., Univ. Minnesota, Duluth, MN.
- 17:15 302 Burrowing Owl nesting strategies and nest success in urban versus grassland habitats and among burrow types. DANIELE BERARDELLI and MARTHA DESMOND, Dept. Fish. & Wildl. Sci., New Mexico State Univ., Las Cruces, NM.

Session 9C (Cabildo). Behavior. Daniel J. Mennill, chair.

- 16:00 303 *Territory defense in tropical birds: are females as aggressive as males? BRADLEY C. FEDY and BRIDGET J. M. STUTCHBURY, Dept. Biol., York Univ., Toronto, ON
- 16:15 304 *Delayed direct benefits as an adaptive advantage of cooperative courtship in the Lance-tailed Manakin. EMILY H. DuVAL, Dept. Integrative Biol., Univ. Calif. Berkeley, Berkeley, CA.
- 16:30 305 The role of plumage badges on mate and extra-pair choice in American Redstarts. PETER J. KAPPES, Dept. Biol., York Univ., Toronto, ON.
- 16:45 306 *Black and white signals of sex and rank in Black-capped Chickadees. DANIEL J. MENNILL, STEPHANIE M. DOUCET, ROBERT MONTGOMERIE and LAURENE M. RATCLIFFE, Biol. Dept., Queen's Univ., Kingston, ON.
- 17:00 307 *Dominant male Red Junglefowl test the dominance status of other males. TIMOTHY H. PARKER and J. DAVID LIGON, Univ. New Mexico, Albuquerque, NM.
- 17:15 308 *Where do you want to eat? a comparison of foraging strategy in patch choice among four syntopic obligate army-ant following bird species. SUSAN K. WILLSON HILLMAN, Div. Biol. Sci., Univ. Missouri, Columbia, MO.

Session 9E (Pontalba). Genetics. Donald C. Dearborn, chair.

- 16:00 309 Genetic characteristics of the Northern Goshawk of southeastern coastal Alaska. SANDRA L. TALBOT, JUDY R. GUST, BARBARA J. PIERSON, USGS Alaska Sci. Center, Anchorage, AK; SARAH A. SONSTHAGEN, Dept. Zool., Brigham Young Univ., Provo, UT; FRANK DOYLE, Wildlife Dynamics Consulting, Telkwa, BC; DON DOYLE, Min. Environ. Lands & Parks, Nanaimo, BC; TED SWEM, U.S. Fish & Wildl. Serv., Fairbanks, AK; CRAIG FLATTEN and KIM TITUS, Div. Wild. Conserv., Alaska Dept. Fish & Game, Douglas, AK.
- 16:15 310 Genetic similarity among mates in Great Frigatebirds. DONALD C. DEARBORN, Dept. Biol. & Progr. Anim. Behav., Bucknell Univ., Lewisburg, PA; LOREN COHEN, Progr. Anim. Behav., Bucknell Univ.; and ANGELA D. ANDERS, Progr. Ecol., Penn State Univ., State College, PA.
- 16:30 311 Identification of genetic structure and natal origins in migrating Sharp-shinned Hawks in North America. JOSHUA M. HULL, Dept. Biol., Sonoma State Univ., Rohnert Park, CA and Golden Gate Raptor Observatory, Sausalito, CA; and DEREK J. GIRMAN, Dept. Biol., Sonoma State Univ.
- 16:45 312 Phylogeny inferred from molecular genetics reveals three origins of brood parasitism in the cuckoos Cuculidae. ROBERT B. PAYNE, Mus. Zool. and Dept. Ecol. & Evol. Biol., Univ. Michigan, Ann Arbor, MI, and MICHAEL D. SORENSON, Dept. Biol., Boston Univ., Boston, MA.
- 17:00 313 A molecular assessment of the "true" thrushes, Sibley and Ahlquist's Turdinae. JOHN KLICKA and GARY VOELKER, Barrick Mus., Univ. Nevada Las Vegas, Las Vegas, NV.
- 17:15 314 Asymmetric hybridization in Black Ducks and Mallards. RYAN J. HARRIGAN and

SCIENTIFIC SESSIONS--FRIDAY

MICHAEL D. SORENSON, Dept. Biol., Boston Univ., Boston, MA.

Session 9H (Vieux Carré - B). Breeding biology. James Cox, chair.

- 16:00 315 Variation in nesting success and group size in the Brown-headed Nuthatch. JAMES COX, Tall Timbers Res. Sta., Tallahassee, FL.
- 16:15 316 Between-year and between-colony variation in sex-specific provisioning strategies of Adélie Penguins in relation to adult mass, mass change, and access to pack ice. NADAV NUR, Point Reyes Bird Observ., Stinson Beach, CA; DAVID G. AINLEY, GRANT BALLARD, H.T. Harvey & Assoc., San Jose, CA, KERRY J. BARTON, PETER R. WILSON, Landcare Research, New Zealand, MICHAEL L. BEIGEL, Beigel Tech. Corp., and NATHANIEL POLISH, Daedalus Tech. Group.
- 16:30 317 Against the odds: nestling sex ratio variation in Green-rumped Parrotlets. AMBER E. BUDDEN and STEVEN R. BEISSINGER, Ecosys. Sci. Div., Univ. California, Berkeley, CA.
- 16:45 318 Study design for avian population research: sample size guidelines for detecting patterns in demographic parameters. MARK E SEAMANS and R. J. GUTIÉRREZ, Dept. Fish., Wildl. & Cons. Biol., Univ. Minnesota, St. Paul, MN.
- 17:00 319 Annual and seasonal survival of Cerulean Warblers breeding in Ontario, Canada. JASON JONES, Dept. Biol. Sci., Dartmouth Coll., Hanover, NH; JENNIFER J. BARG, Queen's Univ., Kingston, ON; T. SCOTT SILLETT, Smithson. Mig. Bird Center, Washington, DC; M. LISA VEIT, Ontario SPCA, Newmarket, ON; and RALEIGH J. ROBERTSON, Queen's Univ.
- 17:15 320 Food supplementation and social facilitation affects the sex ratio of Black-legged Kittiwake broods. RICHARD B. LANCTOT, VERENA A. GILL, SCOTT A. HATCH, SANDY TALBOT, U.S. Geol. Serv., Alaska Sci. Center, Anchorage, AK, and VICKI FRIESEN, Dept. Biol., Queen's Univ., Kingston, ON.

Session 9J (Poydras). Foraging. Jennifer A. Blakesley, chair.

- 16:00 321 *Dietary analysis of Northern Hawk Owls in interior Alaska. JOHN E. SHOOK and MARC J. BECHARD, Raptor Res. Center, Boise State Univ., ID.
- 16:15 322 Effects of summer prescribed fires on taxa richness and abundance of avian and macroinvertebrate populations and associated vegetative changes. KEN MIX, Welder Wildl. Found., Dept. Animal & Wildl. Sci., Texas A&M Univ.-Kingsville and Caesar Kleberg Inst., Kingsville, TX, and WILLIAM P. KUVLESKY Jr., Dept. Animal & Wildl. Sci., Texas A&M Univ.-Kingsville and Caesar Kleberg Inst.
- 16:30 323 *Factors affecting foraging success of the White-tailed Kite in the wetland habitats of Suisun Marsh, California (1970 - 1971). HEATHER M. MOHAN, Western Illinois Univ., Macomb, IL; WILLIAM IKO and REY STENDELL, USGS-BRD, Ft. Collins, CO.
- 16:45 324 *A bioenergetic model of trout predation by Great Blue Herons on the White River in Arkansas. LYNN S. HODGENS, JAMES C. BEDNARZ, Dept. Biol., Arkansas State Univ., Jonesboro, AR, and STEVE BLUMENSHINE, Dept. Biol., California State Univ., Fresno, CA.
- 17:00 325 *Analysis of seabird wing shape using relative warp analysis. MICHAEL L. BREWER, Dept. Biol., California State Univ., Northridge, CA; LISA T. BALLANCE, Southwest Fisheries Sci. Center, La Jolla, CA; and FRITZ HERTEL, Dept. Biol., California State Univ., Northridge, CA.
- 17:15 326 Influence of seed abundance and diversity on a wintering Chihuahuan Desert avifauna. STEVEN NIEMELA and MARTHA DESMOND, Dept. Fish. & Wildl. Sci., New Mexico State Univ., Las Cruces, NM.

SCIENTIFIC SESSIONS--FRIDAY

18:30 - 21:30 Poster Session 2 (LaSalle - A). New Orleans Dessert Reception with coffee and cash bar

- 578 *Postfledging ecology of White-throated Robins. EMILY B. COHEN, Dept. Zool., Michigan State Univ., and CATHERINE A. LINDELL, Dept. Zool. and Basic Sci. & Remote Sensing Initiative, Michigan State Univ., East Lansing, MI.
- 579 Noninvasive sampling techniques detect intraspecific nest parasitism in cavity-nesting Wood Ducks. CHARLOTTE ROY NIELSEN, PATRICIA G. PARKER, Dept. Biol., Univ. Missouri-St. Louis, St. Louis, MO; and ROBERT J. GATES, Nat. Res., Ohio State Univ., Columbus, OH.
- 580 Seed dispersal by birds contributes to Chinese tallow tree invasiveness in Louisiana and South Carolina. WYLIE C. BARROW, Jr., USGS, Natl. Wetlands Res. Center, Lafayette, LA; IAN J. RENNE, Dept. Biol. Sci., Clemson Univ., Clemson, SC; LORI A. JOHNSON RANDALL and CLINT JESKE, Natl. Wetlands Res. Center.
- 581 *Nest site selection and the use of canopy gaps in three thrush species on an industrial forest. RACHEL L. DELLINGER and PETRA BOHALL WOOD, West Virginia Coop. Fish & Wildl. Res. Unit and Div. For., West Virginia Univ., Morgantown, WV.
- 582 A new species of flightless sandpiper from Henderson Island, South Pacific. MICHAEL R. DICKISON, Dept. Biol., Duke Univ., Durham, NC, and GRAHAM WRAGG, Ashburton, New Zealand.
- 583 Spatial patterns of habitat use by manakins (Pipridae) in a lowland wet forest in Ecuador: preliminary results from captures and spot-mapping. BETTE A. LOISELLE, JOHN G. BLAKE and T. BRANDT RYDER, Dept. Biol. and Intl. Ctr. Trop. Ecol., Univ. Missouri-St. Louis, MO.
- 584 Phylogenetic relationships and character evolution in the kingbirds (Tyrannus). JASON A. MOBLEY, Mus. Vert. Zool. and Dept. Integrat. Biol., Univ. California, Berkeley, CA.
- 585 *Colonization of eastern Brazil by the Cinereous Warbling-Finch, with some comments on its natural history. RÔMULO RIBON, Ecol. Cons. Man. Vida Silv., Univ. Fed. Minas Gerais, Belo Horizonte, MG, Brazil and Museu de Zool. João Moojen de Oliveira, Univ. Fed. Viçosa, MG, Brazil.
- 586 Vacant
- 587 Linking breeding and wintering distributions of Southwestern Willow Flycatchers with stable Isotopes. MATTHEW J. JOHNSON, USGS/Colorado Plateau Field Sta., Northern Arizona Univ., Flagstaff, AZ, and JEFFREY KELLY, USDA For. Serv., Rocky Mountain Res. Sta., Albuquerque, NM.
- 588 Predators of Southwestern Willow Flycatcher nests in central Arizona: identification using time-lapse video cameras. TRACY D. McCARTHEY and DARREN K. BOLEN, Arizona Game & Fish Dept., Phoenix, AZ.
- 589 Importance of habitat and food availability in site selection of Southwestern Willow Flycatchers. SYLVIA L. SCHMIDT and JAMES D. FRASER, Dept. Fish. & Wildl. Sci., Virginia Tech, Blacksburg, VA.
- 590 Reproductive ecology of Tundra Swan in the Mackenzie Delta Region, Canada. HEATHER A. SWYSTUN, RUSSELL D. DAWSON, Biol. Prog., Univ. Northern British Columbia, Prince George, BC; and JAMES E. HINES, Canadian Wildl. Serv., Yellowknife, NT.
- 591 Influence of geographic local on avian community structure and species dominance. MICHAEL S. HUSAK and ERIC T. LINDER, Dept. Biol. Sci., Mississippi State Univ., Mississippi State, MS.
- 592 Life history studies of New World tropical parrots and their conservation. KARL S. BERG, Dept. Biol. Sci., Florida Internl. Univ., Miami, FL, RAFAEL ANGEL and JACQUELINE SOCOLA, Fundacion Pro Bosque, Guayaquil, Ecuador.
- 593 Local at-sea distribution of breeding and non-breeding radio-marked Marbled Murrelets during the breeding season. PEGGY P. W. YEN, Dept. Biol., Simon Fraser Univ., Burnaby, BC; and RUSSELL BRADLEY, Point Reyes Bird Observ., Stinson Beach, CA.
- 594 A regional monitoring program for the threatened Marbled Murrelet. PATRICK G. R. JODICE, U.S. Fish & Wildl. Service, Portland, OR.
- 595 Characteristics of Marbled Murrelet nest trees and nest sites in the Pacific Northwest. S. KIM NELSON, Oregon State Univ., Dept. Fish. & Wildl., Corvallis, OR; THOMAS E. HAMER, Hamer Environmental, Mt. Vernon, WA, AMANDA K. WILSON, Oregon State Univ., and DOUGLAS J. MEEKINS, Hamer Environmental.
- 596 Are Marbled Murrelet pairs at sea actually breeding pairs? LAURA McFARLANE TRANQUILLA, PEGGY YEN, Centre Wildl. Ecol., Dept. Biol. Sci., Simon Fraser Univ., BC, RUSSELL BRADLEY, Point Reyes Bird Observ., Stinson Beach, CA, and BRETT VANDERKIST, Capilano Coll., Vancouver, BC.

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- 597 New insights from LANDSAT 7 satellite imagery for the investigation of Marbled Murrelet nesting habitat in Desolation Sound, Canada. SCOTT STEEBY, MRYKA HALL-BEYER, FALK HUETTMANN, Geog. Dept., Univ. Calgary, Calgary, AB, and DOV LANK, Simon Fraser Univ., Burnaby, BC.
- 598 *Age-related differential timing of spring migration within sexes in passerines. REBECCA L. M. STEWART, Dept. Zool., Univ. Manitoba, Winnipeg, MB; CHARLES M. FRANCIS, Natl. Wildl. Res. Centre, Hull, PQ, and CHERYL MASSEY, Ontario Veterinary Coll., Univ. Guelph, Guelph, ON.
- 599 *Gyrfalcon diet in West Greenland during the nesting period. TRAVIS BOOMS and MARK FULLER, Raptor Res. Center, Boise State Univ., ID.
- 600 *Host-parasite interactions between Shiny Cowbirds and Creamy-bellied Thrushes. ANDREA A. ASTI É and JUAN C. REBOREDA, Dept. Biol. Sci., Univ. Buenos Aires, Buenos Aires, Argentina.
- 601 *Recovering DNA from molted raptor feathers for use in genotyping and mark/recapture analysis: a work in progress. SHELLEY BAYARD DE VOLO, GDPE, Colorado State Univ., Fort Collins, CO; MICHAEL F. ANTOLIN, Dept. Biol., Colorado State Univ.; RICHARD T. REYNOLDS, Rocky Mountain Res. Sta., Fort Collins, CO; and KENNETH P. BURNHAM, Colorado Coop. Fish & Wildl. Res. Unit, CO.
- 602 *Nest defense by Carolina Wrens. KELLY A. D'ORAZIO and DIANE L. NEUDORF, Dept. Biol. Sci., Sam Houston State Univ., Huntsville, TX.
- 603 *Conservation tillage, providing source habitat for Horned Lark? SANDRA B. CEDERBAUM, ROBERT J. COOPER and JOHN P. CARROLL, Warnell School For. Res., Univ. Georgia, Athens, GA.
- 604 *Song variation in a Dusky Flycatcher population in southwestern Alberta. T. E. STEHELIN, Dept. Biol. Sci., Univ. Calgary, Calgary, AB.
- 605 GIS analysis of breeding density, nest site preferences, and population size of three diurnal raptors in southeastern Madagascar. SARAH M. KARPANTY, Dept. Ecol. & Evol., SUNY Stony Brook, Stony Brook, NY.
- 606 Trophic levels and heavy metal concentrations of terns at two California nesting colonies. MICHAEL H. HORN, Dept. Biol. Sci., California State Univ., Fullerton, CA; ANDREW Z. MASON, Dept. Biol. Sci, California State Univ., Long Beach, CA; DARRYL R. SMITH, Calif. State Univ., Fullerton; ELAINE A. LOGOTHETIS, North Carolina Aquarium at Fort Fisher, Kure Beach, NC; and CHARLES T. COLLINS, Calif. State Univ., Long Beach.
- 607 Island and Western Scrub-Jays: extra-pair paternity or genetic monogamy? KATHLEEN SEMPLE DELANEY, Dept. Organ. Biol., Ecol. & Evol., Univ. California, Los Angeles, CA, MARY JO ELPERS, U.S. Fish & Wildl. Serv., Reno, NV; CHARLES T. COLLINS, Dept. Biol., California State Univ., Long Beach, CA, and ROBERT K. WAYNE, Dept. Organ. Biol., Ecol. & Evol., Univ. California, Los Angeles, CA.
- 608 The ecology of a subsidized predator: Common Raven. WILLIAM I. BOARMAN, U.S. Geol. Surv., Western Ecol. Res. Center, San Diego, CA; WILLIAM B. KRISTAN, III, Center Conserv. Biol., Univ. Calif., Riverside, CA, and WILLIAM C. WEBB, Coll. For. Res., Univ. Washington, Seattle, WA.
- 609 Area and edge effects on forest songbirds in a nonagricultural landscape of north Mississippi. STEVEN M. AQUILANI, Dept. Biol., Delaware Co. Coll., Media, PA; J. STEPHEN BREWER and DOUG S. HOHMAN, Dept. Biol., Univ. Mississippi, University, MS.
- 610 Management of early successional forest to increase diversity of insectivorous Neotropical migrants in Quintana Roo, Mexico. JAMES A. ROTENBERG, Reserva Ecologica El Eden, Cancun, Quintana Roo, Mexico.
- 611 Spotlighting -- a viable method for surveying grassland owls? ANNE M. CONDON, BRIAN L. SULLIVAN, ERIC L. KERSHNER, DOUGLASS M. COOPER, Inst. Wildl. Stud., San Diego, CA, and DAVID K. GARCELON, Inst. Wildl. Stud., Arcata, CA.
- 612 Nest-site characteristics and density of cliff-nesting American Kestrels on San Clemente Island, California. BRIAN L. SULLIVAN, ANNE M. CONDON, ERIC L. KERSHNER, SEAN P. FINN, DOUGLASS M. COOPER, Inst. Wildl. Stud., San Diego, CA; and DAVID K. GARCELON, Inst. Wildl. Stud., Arcata, CA.
- 613 A comparison of Red-tailed Hawk and Common Raven nest sites in a small island ecosystem. BRIAN L. SULLIVAN, ANNE M. CONDON, ERIC L. KERSHNER, SEAN P. FINN, DOUGLASS M. COOPER, Inst. Wildl. Stud., San Diego, CA, and DAVID K. GARCELON, Inst. Wildl. Stud., Arcata, CA.
- 614 Variation in incubation patterns among three species of grebes nesting at Agassiz NWR, Minnesota. BRUCE A. EICHHORST, Dept. Biol., Univ. Nebraska-Kearney, Kearney, NE.

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- 615 Nocturnal behaviors of Red-necked Grebes in relation to periods of nest inattentiveness. BRIAN R. MORITZ and BRUCE A. EICHHORST, Dept. Biol., Univ. Nebraska-Kearney, Kearney, NE.
- 616 *Names, significance, and use of birds by the Guarani-Izoceño indigenous community of Bolivia. ANA MARÍA SAAVEDRA ZANKYS, Museo de Historia Natural Noel Kempff Mercado, Santa Cruz, Bolivia.
- 617 *Genetic variation in the Amethyst-throated Hummingbird complex using mitochondrial DNA. NANDADEVI CORTES-RODRÍGUEZ, MAGALI HONEY-ESCANDÓN, GABRIELA GARCÍA-DERAS and BLANCA HERNÁNDEZ-BAÑOS, Museo de Zoología "Alfonso L. Herrera", Facultad de Ciencias, UNAM, México D.F.
- 618 Hummingbird flight kinematics along elevational gradients. DOUGLAS L. ALTSHULER, Dept. Integ. Biol., Univ. California, Berkeley, CA, PENG CHAI, Lincoln, NE, and ROBERT DUDLEY, Sec. Integ. Biol., Univ. Texas, Austin, TX.
- 619 Foraging and habitat use by the endangered Laysan Teal: implications for translocation. MICHELLE REYNOLDS, USGS Pacific Islands Ecosys. Res. Center, VPI&SU, Hawaii Natl. Park, HI.
- 620 *Development of an avian biosentinel program for Michigan using the Bald Eagle. AMY S. ROE, JENNIFER M. WONG, Dept. Env. Tox., Clemson Univ., Pendleton, SC; DAVID A. BEST, U.S. Fish & Wildl. Serv., East Lansing, MI; DENNIS BUSH, Michigan Dept. Env. Quality, Lansing, MI; JAMES G. SIKARSKIE, Coll. Vet. Med., Michigan State Univ., and WILLIAM BOWERMAN, Dept. Env. Tox., Clemson Univ.
- 621 *Bald Eagle nest placement and reproduction patterns in the northern Lower Peninsula of Michigan. CARRIE R. STEEN and KELLY F. MILLENBAH, Dept. Fish. & Wildl., Michigan State Univ., East Lansing, MI.
- 622 *Spatial scale variability in wintering shorebird use of coastal wetland restoration sites. ANNA R. ARMITAGE and JOY E. YOON, Dept. OBEE, Univ. California, Los Angeles, CA.
- 623 *Parasite fauna and their effects on condition in a natural population of a tropical passerine. TERRY R. KRUEGER, Dept. Biol., Univ. Miami, Coral Gables, FL; JULIA V. RODRÍGUEZ and ANNA JIMI ÉNEZ, School Vet. Med., Nat. Univ. Costa Rica, Heredia, Costa Rica.
- 624 Multiple day constancy as an alternative to pooling in mark-recapture modeling to estimate stopover length. SARA R. MORRIS, Dept. Biol., Canisius Coll., Buffalo, NY; DAVID A. LIEBNER, Dept. Biol. and Dept. Physics, ERICA M. TURNER, AMANDA M. LARRACUENTE, Dept. Biol., and H. DAVID SHEETS, Dept. Physics.
- 625 Conservation of the Mississippi Sandhill Crane. SCOTT G. HEREFORD, U.S. Fish & Wildl. Serv., Gautier, MS.
- 626 Optics for the tropics. JONI ELLIS, Southeast Partners in Flight, Gainesville, FL.
- 627 Vacant
- 628 Vacant
- 629 Altering forest management plans to accommodate rare or endangered species -- a positive example and approach. KELLY J. MCKAY, Midwest Biol. Res. & Monitoring Inst., Hampton, IL; JON W. STRAVERS, Midwest Raptor Res. Fund, McGregor, IA; GARY SWENSON, U.S. Army Corps Engin., Rock Island Dist., Pleasant Valley, IA.
- 630 Avian survey of the Savanna Ordnance Depot bottomlands, an Upper Mississippi River floodplain site. KELLY J. MCKAY, PETER C. PETERSEN and BRIAN L. BLEVINS, Midwest Biol. Res. & Monitoring Inst., Hampton, IL.
- 631 Using stable isotopes in bird feathers to enhance estimation of transition rates in multi-state capture-recapture models. LARKIN A. POWELL, School Nat. Res. Sci., Univ. Nebraska, Lincoln, NE.
- 632 Nocturnal incubation by Wood Ducks during egg laying. GARY R. HEPP, School For. & Wildl. Sci., Auburn Univ., Auburn, AL.
- 633 Dynamics of avian and arthropod communities across distinct vegetation zones in the Grand Canyon. HELEN YARD, Helen Yard Consulting, Flagstaff, AZ, and NEIL COBB, Northern Arizona Univ., Flagstaff, AZ.
- 634 Does adult prey choice affect reproductive success in Acadian Flycatchers? LASHALE D. PUGH and COURTENAY N. WILLIS, Dept. Biol., Youngstown State Univ., Youngstown, OH.
- 635 Dietary dynamics of Barn Owls in a stable environment. CARL D. MARTI, Raptor Res. Center, Boise State Univ, Boise, ID.
- 636 Edge effects on bird abundance in a landscape undergoing ponderosa pine forest restoration. JAMES BATIN and THOMAS D. SISK, Center Environ. Sci. & Edu., Northern Arizona Univ., Flagstaff, AZ.
- 637 "Forest-grown" yerba mate: implications for the birds of Paraguay's Atlantic interior forest.

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- 638 KRISTINA COCKLE and MARTY LEONARD, Biol. Dept., Dalhousie Univ., Halifax, NS.
DNA sexing methods in Northern Saw-Whet Owls and Flammulated Owls. LYNDA LEPPERT,
ALFRED DUFTY and SARAH HAMILTON, Biol. Dept., Univ. ID, Boise, ID.
- 639 Heterophil to lymphocyte ratios in migrating Northern Saw-Whet Owls. ALFRED M. DUFTY,
LYNDA L. LEPPERT, Biol. Dept., Boise St. Univ., Boise, ID, and SARAH L. HAMILTON, Biol.
Dept., Univ. ID, Moscow, ID.
- 640 Molecular phylogenetics of *Pyrrhura leucotis* parakeets: species limits and historical
biogeography of Neotropical forests. CAMILA C. RIBAS and CRISTINA Y. MIYAKI, Dept.
Biol. Univ. Sao Paulo, Sao Paulo, Brazil.
- 641 *Suggestions on the choice of territory estimator in resource selection studies, using data on
Cerulean Warblers. JENNIFER J. BARG and RALEIGH J. ROBERTSON, Dept. Biol., Queen's
Univ, Kingston, ON.
- 642 Characteristics of Cerulean Warbler territories in southern Indiana. KAMAL ISLAM and
CYNTHIA BASILE, Dept. Biol., Ball State Univ., Muncie, IN.
- 643 *Cerulean Warbler relative abundance and frequency of occurrence relative to large-scale
edge. SCOTT B. BOSWORTH, Div. For., West Virginia Univ., Morgantown, WV; PETRA
BOHALL WOOD, West Virginia Coop. Fish & Wildl. Res. Unit, West Virginia Univ., and RANDY
DETTMERS, Div. Migratory Birds, US Fish & Wildl. Serv., Hadley, MA.
- 644 Effectiveness of Florida Burrowing Owl conservation measures. KATHERIN L. HALEY,
BRIAN A. MILLSAP, CINDY BEAR and ELIZABETH K. McCONNELL, Florida Fish & Wildl.
Conserv. Comm., Tallahassee, FL.
- 645 *The impacts of land cover changes of reproductive habitats of Resplendent Quetzal on its
distribution in southern Mexico. SOFÍA SOLÓRZANO, Instituto de Ecología, Campus Morelia,
UNAM, Michoacán, Mexico; MIGUEL ANGEL CASTILLO-SANTIAGO, DARIO NAVARRETE-
GUTIÉRREZ, ECOSUR, San Cristóbal de las Casas, Chiapas, Mexico, and KEN OYAMA,
Instituto de Ecología, Campus Morelia, UNAM, Michoacán, Mexico.
- 646 Building nesting and roosting towers for Chimney Swifts. PAUL D. KYLE and GEORGEAN Z.
KYLE, Driftwood Wildl. Assoc., Austin, TX.
- 647 vacant
- 648 Band recovery data from fledgling Brown Pelicans on the Chandeleur Islands, Louisiana.
JAMES O. HARRIS, NANCY F. WALTERS and CHARLOTTE D. PARKER, Southeast
Louisiana Refuges, U.S. Fish & Wildl. Serv., Slidell, LA.
- 649 Succession, herbivory and the ecology of fear: implications for nest predation at the
landscape level in the boreal forest. KEITH P. LEWIS, Biopsychol. Programme, Memorial
Univ. Newfoundland, St. John's, NF.
- 650 *Austral migration: current state of knowledge and research needs, with preliminary data from
a monitoring station in the Bolivian Chaco. ALEX E. JAHN, Dept. Zool., Univ. Florida,
Gainesville, FL; SUSAN E. DAVIS and ANA MARIA SAAVEDRA, Museo de Historia Natural
Noel Kempff Mercado, Santa Cruz, Bolivia.
- 651 Conservation of the threatened seabird community of the Juan Fernandez Islands, Chile.
PETER J. HODUM, Dept. Biol. Sci., California State Univ.- Long Beach, Long Beach, CA;
MICHELLE D. WAINSTEIN, Dept. Aquatic & Fish. Sci., Univ. Washington, Seattle, WA; and
ERIN HAGEN, Univ. Washington.
- 652 The effect of winter food supplementation on the reproductive behavior of the Northern
Cardinal. THERESA L. RAFIQ, Univ. Pennsylvania, Philadelphia, PA; TIANA GUINARD and
PETER MARRA, Smithsonian Environ. Res. Center, Edgewater, MD.
- 653 Call variation in island endemic subspecies of the Brown-throated Parakeet. JESSICA R.
EBERHARD, Cornell Lab. Ornithol., Ithaca, NY.
- 654 Isolation of a new *Mycoplasma* species from the tissues of Oriental White-backed Vulture in
Pakistan and possible role in population collapse. J. LINDSAY OAKS, SHANNON L.
DONAHOE, Dept. Vet. Microbiol. & Path., Washington State Univ., Pullman, WA; MARTIN
GILBERT, MUNIR Z. VIRANI, RICK WATSON, The Peregrine Fund, Boise, ID, and ALEEM
AHMED KHAN, Ornithol. Soc. Pakistan, Dera Ghazi Khan, Pakistan.
- 655 Long-term trends of the breeding birds on Hog Island. JENNIFER E. JOHNSON, Dept. Biol.,
Swarthmore Coll., Swarthmore, PA, and SCOTT WEIDENSAUL, Schuylkill Haven, PA.
- 656 California Condor reintroduction: status and direction of the Arizona project. ANDI S.
ROGERS, Arizona Game & Fish Dept., Flagstaff, AZ; and CHRIS N. PARISH, The Peregrine
Fund, Boise, ID.
- 657 The avian hematocrit: what can it tell us about wild birds? JEANNE M. FAIR and SHAYNA
WHITAKER, Los Alamos Natl. Lab., Environ. Dynamics & Spatial Analysis, Los Alamos, NM.
- 658 Avian reproductive success in restored grasslands: measuring the success of a restoration

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- effort. JOHN B. DUNNING, Jr., BRYAN WEE and ALEXANDRA HOUSTON, Dept. For. & Nat. Res., Purdue Univ., West Lafayette, IN.
- 659 Landscape changes and bird movements in the central Amazon. CHERYL M. STRONG, Biol. Dynamics For. Frag. Project, Manaus, Brazil, and PHIL STOUFFER, Southeastern Louisiana Univ., Hammond, LA.
- 660 Dawn song as a sexual signal in the Acadian Flycatcher. BONNIE E. WOOLFENDEN, BRIDGET J. M. STUTCHBURY, Dept. Biol., York Univ., Toronto, ON, and EUGENE, S. MORTON, Smithsonian Inst., Front Royal, VA.
- 661 Habitat selection of a declining warbler population: the Canada Warbler in northern Vermont. JAMESON CHACE, JAMES GILLIS, Biol. Dept., Villanova Univ., Villanova, PA, and STEVEN FACCIO, Cons. Biol. Dept., Vermont Inst. Nat. Sci., Woodstock.
- 662 Use of native and exotic plants by nesting Yellow-billed Cuckoos: a tale of two rivers. HIRA A. WALKER, Dept. Biol., Univ. New Mexico, Albuquerque, NM, SCOTT H. STOLESON, DEBORAH M. FINCH, JEFF KELLY, USDA For. Serv., Rocky Mountain Res. Sta., Albuquerque, NM.
- 663 A preliminary analysis of the geographic distribution and habitat use of the Black-capped Vireo on the winter range in western Mexico. R. A. POWELL, R. D. SLACK, Dept. Wildl. & Fish. Sci., Texas A & M Univ., College Station, TX; and C. FARQUHAR, Wildl. Divers. Prog., Texas Parks & Wildl. Dept., Austin, TX.
- 664 Do we need corridors to enhance bird movement between forest fragments? MIGUEL ÂNGELO MARINI, Dept. Zoologia, Univ. Brasília, Brasília, DF, Brazil; RÔMULO RIBON and RENATA D. ANDRADE, Ecol. Cons. Man. Vida Silv., Univ. Fed. Minas Gerais, Belo Horizonte, MG, Brazil.
- 665 A comparison of historic and current distribution of spruce grouse in the Adirondack Mountains. GLENN JOHNSON, ANGELENA ROSS, AMY HOLLISTER, Dept. Biol., SUNY Potsdam, Potsdam, NY; and JOHN OZARD, New York State Dept. Environ. Conserv., Albany, NY.
- 666 Estrogen may play an immuno-protective role in female House Finches exposed to *Mycoplasma gallisepticum*. KRISTY L. FARMER, PAUL M. NOLAN, GEOFFREY E. HILL and SHARON R. ROBERTS, Dept. Biol. Sci., Auburn Univ., Auburn, AL.
- 667 Diet breadth and altitudinal migration in Costa Rican frugivorous birds. ALICE BOYLE, Dept. Ecol. & Evol. Biol., Univ. Arizona, Tucson, AZ.
- 668 Diets of Lesser Scaup during spring migration: has there been a decline in preferred forage in the Mississippi Flyway? MICHAEL J. ANTEAU and ALAN D. AFTON, USGS Louisiana Coop. Fish & Wildl. Unit, Louisiana State Univ., Baton Rouge, LA.
- 669 Sandgrouse shooting in the Northern Cape Province, South Africa. MARK D. ANDERSON, Dept. Agric., Land Reform, Env. & Cons., Kimberley, South Africa.
- 670 The coastal plain of Chiapas: a migratory pathway with opportunities for conservation stopover habitat for migratory raptor. EFRAIN CASTILLEJOS-CASTELLANOS, Pronatura Chiapas, San Cristóbal de Las Casas Chiapas, México.
- 671 *Influence of weather conditions and migrant density on migration patterns of Northern Saw-whet Owls. DAVID M. WHALEN, Dept. Biol., Univ. New Mexico, Albuquerque, NM; and BRYAN D. WATTS, Center Cons. Biol., Coll. William & Mary, Williamsburg, VA.
- 672 Weather, reproductive success, and population dynamics in a Song Sparrow population over 21 years. MARY K. CHASE, NADAV NUR and GEOFFREY R. GEUPEL, Point Reyes Bird Observ., Stinson Beach, CA.
- 673 Feeding ecology of insectivorous birds in Brazilian Atlantic forest. RENATA DURÃES, Dept. Biol., Univ. Missouri-St. Louis, Saint Louis, MO, and MIGUEL ÂNGELO MARINI, Univ. Brasília, DF, Brazil.
- 674 Mortality and population collapse of Oriental White-backed Vulture in Pakistan. MUNIR Z VIRANI, MARTIN GILBERT, RICK WATSON, The Peregrine Fund, Boise, ID; ALEEM A. KHAN, BZ Univ., Multan, Punjab, Pakistan; LINDSAY OAKS, Dept. Vet. Microbiol. & Path., Washington State Univ., Pullman, WA; JAMSHED CHAUDHRY, SHAKEEL AHMED, MUHAMMAD ARSHAD, SHAHID MAHMOOD and AHMAD ALI, BZ Univ.
- 675 Fall waterfowl migrations captured by radar along the Illinois River. ANDREA M. CAMPERO, ROBERT H. DIEHL, Dept. Animal Biol., Univ. Illinois Urbana-Champaign, Champaign, IL, and RONALD P. LARKIN, Illinois Nat. Hist. Surv., Champaign, IL.
- 676 Winter bird use of the invasive Chinese tallow trees in Louisiana. MICHAEL J. BALDWIN, WYLIE C. BARROW, Jr., CLINT JESKE, USGS, Natl. Wetlands Res. Center, Lafayette, LA, and VERNON WRIGHT, School Renew. Nat. Res., Louisiana State Univ., Baton Rouge, LA.
- 677 Distribution, abundance, and breeding biology of White Terns on Oahu, Hawaii. ERIC A.

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- VANDERWERF, U.S. Fish & Wildl. Serv., Honolulu, HI.
- 678 Species and sex differences in egg-pecking behavior between parasitic and non-parasitic cowbirds. PAULO E. LLAMBIÁS, VALENTINA FERRETTI and JUAN REBOREDA, Biol. Sci., Univ. Buenos Aires, Buenos Aires, Argentina.
- 679 Reproductive output, nestling growth and diet of Lilac-crowned Parrots in tropical dry forest. ALEJANDRO SALINAS-MELGOZA, KATHERINE RENTON and TANIA SANCHEZ. Inst. Biol., UNAM, Mexico.
- 680 Pre-fledging growth rates of Common Nighthawks. BRETT K. SANDERCOCK, Div. Biol., Kansas State Univ., Manhattan, KS.
- 681 A preliminary look at the use of remote cameras to assess diet of nesting Ferruginous Pygmy-Owls in southern Arizona. SHAWN F. LOWERY, SARAH J. LANTZ and MICHAEL F. INGRALDI, Research Branch, Arizona Game & Fish Dept., Phoenix, AZ.
- 682 Recent divergence between Baltimore and Black-backed orioles: did the Baltimore Oriole evolve from a Mexican ancestor? BEATRICE KONDO and KEVIN E. OMLAND, Dept. Biol. Sci., Univ. Maryland, Baltimore Co., Baltimore, MD.
- 683 The adrenocortical response to handling stress in breeding Adélie Penguins: effects of breeding stage, body mass and intensity of human visitation. CAROL M. VLECK, Prog. Ecol. & Evol. Biol., Iowa State Univ., Ames IA; and THERESA L. BUCHER, Dept. Biol., Univ. California, Los Angeles, CA.
- 684 Effects of silvicultural intensity on Pileated Woodpecker presence and foraging patterns. JÉRÔME LEMAÎTRE and MARC-ANDRÉ VILLARD, Chaire de recherche du Canada en conservation des paysages and Département de biologie, Université de Moncton, Moncton, NB.
- 685 Reintroduction of Brown-headed Nuthatches and Eastern Bluebirds to Everglades National Park: methodology and factors associated with success. GARY L. SLATER, Ecostudies Inst., Mount Vernon, WA; KENNETH D. MEYER, ARC Inst., Inc., Gainesville, FL, and SKIP SNOW, Everglades Natl. Park, Homestead, FL.
- 686 Agricultural vs. natural habitat use by wintering raptors in south Florida. ELISE VERNON PEARLSTINE, FRANK J. MAZZOTTI and CHRIS J. DEREN, Everglades Res. & Edu. Center, Univ. Florida, Belle Glade, FL.
- 687 Winter observations of Great Lakes' Piping Plovers 1995 - 2001: conservation and management implications. JENNIFER H. STUCKER, FRANCESCA J. CUTHBERT, Dept. Fish. Wildl. and Conserv. Biol., Univ. Minnesota, St. Paul, MN, LAUREN C. WEMMER, Conserv. Biol. Prog., Univ. Minnesota, and BRAD WINN, Georgia Dept. Nat. Res., Brunswick, GA.
- 688 The return of Yellow-shouldered Blackbirds to natural nesting substrates. WILLIAM V. DELUCA, Smithsonian Environ. Res. Center, Edgewater, MD, DEREK HENGSTENBERG, Dept. Wildl. & Fish., Mississippi State Univ., Mississippi State, MS, and LEONARD REITSMA, Dept. Nat. Sci., Plymouth State Coll., Plymouth, NH.
- 689 Observations of song modes in the American Redstart: is a reevaluation of function necessary? RACHEL T. BRU, ROBERT J. SMITH and FRANK R. MOORE, Dept. Biol. Sci., Univ. Southern Mississippi, Hattiesburg, MS.
- 690 Demography of the endangered Ferruginous Pygmy-Owl of southern Arizona. MICHAEL F. INGRALDI, DENNIS J. ABBATE and RENEE L. WILCOX, Research Branch, Arizona Game & Fish Dept., Phoenix, AZ.
- 691 Age-related reproductive success of the Laysan Albatross. FRANS JUOLA, Dept. Biol. & Progr. Anim. Behav., Bucknell Univ., Lewisburg, PA; ANGELA D. ANDERS, Progr. Ecol., Pennsylvania State Univ., State College, PA; and DONALD C. DEARBORN, Dept. Biol. & Progr. Anim. Behav., Bucknell Univ.
- 692 Demography of Acadian Flycatchers in the Blue Ridge Mountains of Virginia. PETER T. FAUTH, Dept. Biol., Hartwick Coll., Oneonta, NY, and PAUL R. CABE, Biol. Dept., Washington & Lee Univ., Lexington, VA.
- 693 Population genetics of the Brewer's Sparrow. EMILY K. CROTEAU, STEPHEN C. LOUGHEED, Dept. Biol., Queen's Univ., Kingston, ON; J. DAVILA, Instituto de Investigacion en Recursos Cinegeticos (IREC), Ciudad Real, Spain; P. KRANNITZ, Canadian Wildl. Serv., Delta, BC, N. MAHONY, Centre App. Conserv. Biol., Univ. British Columbia, Vancouver, BC, and PETER T. BOAG, Dept. Biol., Queen's Univ.
- 694 Deciphering the tempo of biotic diversification: biogeographic patterns and the historical assembly of the South American avifauna. ANA LUZ PORZECANSKI and JOEL CRACRAFT, Am. Mus. Nat. Hist., New York, NY, and Dept. Ecol. Evol. & Env. Biol., Columbia Univ., New York, NY.
- 695 Missing on Maui and waning on Oahu: phylogeography of the Elepaio. SARAH L.

SCIENTIFIC SESSIONS--FRIDAY

- BURGESS, Prog. EEC Biol., Univ. Hawaii, Honolulu, HI.
- 696 Sex ratios of nestling House Wrens vary with brood order. E. DALE KENNEDY, KAMI MARSACK, NATHANIEL A. SOWA and DOUGLAS W. WHITE, Biol. Dept., Albion Coll, Albion, MI.
- 697 Comparison of predation rates and predators between real and artificial Swainson's Thrush nests. REBECCA PIERCE RALL and T. LUKE GEORGE, Dept. Wildl., Humboldt State Univ., Arcata, CA.
- 698 Variation in mass and energetic condition of Neotropical migrants during stopover at farmstead woodlot sites in southeastern South Dakota. H. A. CARLISLE, E. T. LIKNES and D. L. SWANSON, Dept. Biol., Univ. South Dakota, Vermillion, SD.
- 699 Influence of community succession on brood parasitism and nest depredation in the Black-capped Vireo. C. CRAIG FARQUHAR, Texas Parks & Wildl. Dept., Austin, TX; ERIC KELCHLIN, Columbia Natl. Wildl. Refuge, Othelo, WA, AMY PORTER, Bellevue, WA and CASEY RICHART, Centralia, WA.
- 700 Atlas of breeding birds in Cuba. BÁRBARA SÁNCHEZ, ARTURO HERNÁNDEZ, PEDRO BLANCO, Instituto de Ecología y Sistemática, CITMA, La Habana, Cuba; JAMES WILEY, USGS, Maryland Coop. Fish & Wildl. Res. Unit, Princess Anne, MD; FRANCISCO CEJAS, ADELA HERRERA and LÁZARO RODRÍGUEZ, Instituto de Ecología y Sistemática.
- 701 Conservation status of Townsend's Shearwater. JUAN E. MARTÍNEZ-GÓMEZ, Dept. Biol., Univ. Missouri, Saint Louis MO, and JEFF K. JACOBSEN, Humboldt State Univ., Arcata CA.
- 702 Vacant
- 703 *Mate attraction and paternal care in the House Wren. NATALIE S. DUBOIS, Dept. Zool. and W. K. Kellogg Biol. Sta., Michigan State Univ., Hickory Corners, MI; E. DALE KENNEDY, Biol. Dept., Albion Coll., Albion, MI; and THOMAS GETTY, Dept. Zool. and W. K. Kellogg Biol. Sta., Michigan State Univ., Hickory Corners, MI.
- 704 The evolution of plumage dichromatism in dabbling ducks: rejection of the widely accepted scenario. MICHAEL D. SORENSON, RYAN H. HARRIGAN, Dept. Biol., Boston Univ., Boston, MA; and KEVIN P. JOHNSON, Illinois Nat. Hist. Surv., Champaign, IL.
- 705 Factors influencing ptarmigan population cycles in Newfoundland. ELLEN JEDREY, W. A. MONTEVECCHI, Biopsychol. Prog., Memorial Univ. Newfoundland, St. John's, NF, S. MAHONEY, M. McGRATH, Sci. Div., Dept. Tour., Rec. & Culture, St. John's, NF, G. LEONARD and A. MURLEY, Dept. Forestry & Agrifoods, Pasadena, NF.
- 706 Retention of host defenses in the absence of avian brood parasitism. BRIAN D. PEER, STEPHEN I. ROTHSTEIN, and MICHAEL J. KUEHN, Dept. Ecol., Evol. & Marine Biol., Univ. California, Santa Barbara, CA.
- 707 Wild birds and fenthion: a deadly mix. PATRICIA R. BRIGHT, MICHAEL J. PARR and GAVIN SHIRE, American Bird Conservancy, Washington, DC.
- 708 Composition and habitat associations of bird communities in urban parks. JOAN L. MORRISON, JESSICA A. BIRNBAUM, PAULA M. CIASTKO and CHRISTOPHER M. GEREMIA, Dept. Biol., Trinity Coll., Hartford, CT.
- 709 *Detecting threshold ranges in the effects of silvicultural intensity on presence and reproductive activity of mature forest songbirds. JEAN-SÉBASTIEN GUÉNETTE and MARC-ANDRÉ VILLARD, Chaire de recherche du Canada en conservation des paysages and Département de biologie, Université de Moncton, Moncton, NB.
- 710 The winter diet of the Burrowing Owl in central Mexico. HÉCTOR E. VALDEZ GÓMEZ, Universidad de Guadalajara, Guadalajara, Jalisco, México; GEOFFREY L. HOLROYD and HELEN E. TREFRY, Canadian Wildl. Serv., Environment Canada, Edmonton, AB.
- 711 Nest attentiveness patterns in Wood Thrushes. KIM C. DERRICKSON, Dept. Biol., Loyola Coll., Baltimore, MD.
- 712 Sex ratio bias at hatching in the Roseate Tern differs between colonies. PATRICIA SZCZYS and RICHARD KESSELI Dept. Biol., Univ. Mass.-Boston, Boston, MA.
- 713 100 years of bird banding in North America. JOHN TAUTIN, Bird Banding Lab., USGS Patuxent Wildl. Res. Center, Laurel, MD.
- 714 Frederick C. Lincoln and the formation of the North American bird banding program. JOHN TAUTIN, Bird Banding Lab., USGS Patuxent Wildl. Res. Center, Laurel, MD.
- 715 Reproductive success of riparian songbirds in southern Oregon: potential source and sink habitats. JEANNIE M. HELTZEL, Hart Mountain Natl. Antelope Refuge, Plush, OR, and SUSAN L. EARNST, USGS Snake River Field Sta., Boise, ID.
- 716 Effects of Hurricane Georges on the composition, abundance, and survival of winter residents in the Guanica Forest of southwest Puerto Rico. JOHN FAABORG, Div. Biol. Sci., Univ. Missouri, Columbia, MO; KATIE DUGGER, Dept. Wildl. Biol, Oregon State Univ., Corvallis, OR;

SCIENTIFIC SESSIONS--FRIDAY

- and WAYNE J. ARENDT, USDA For. Serv., IITF/Sabana Field Res. Sta., Palmer, PR.
- 717 Species or host races? direct estimate of hybridization in sympatric indigobirds. CHRISTOPHER N. BALAKRISHNAN, KRISTINA M. SEFC and MICHAEL D. SORENSON, Dept. Biol., Boston Univ., Boston, MA.
- 718 *The influence of prey choice and food quality on reproductive performance in an Arctic Tern population. CHRISTINA J. MARANTO, Dept. Ecol. & Evol. Biol., Univ. California, Irvine, CA.
- 719 Influence of the flora and vegetative structure on populations of terrestrial birds on Cayo Coco, Cuba. DAYSÍ RODRÍGUEZ, ALFREDO GUTIERREZ and BÁRBARA SÁNCHEZ, Instituto de Ecología y Sistemática, CITMA, La Habana, Cuba.
- 720 The effect of avian malaria on the breeding success of Hawaii Amakihi (*Hemignathus virens*). A. MARM KILPATRICK, Dept. Biol., Univ. Wisconsin, Madison, WI., DENNIS LaPOINTE, CARTER T. ATKINSON and JULIE K. LEASE, USGS-BRD Pacific Island Ecosys, Res. Center, Hawaii Natl. Park, HI.
- 721 Investigating the cause of AVM in Bald Eagles and waterfowl. ANNA H. BIRRENKOTT, Dept. Environ. Tox., Clemson Univ., Pendleton, SC; JOHN J. HAINS, USACE, Calhoun Falls, SC; SUSAN B. WILDE, Baruch Inst., Univ. South Carolina, Charleston, SC; JOHN R. FISCHER, Southeastern Coop. Wildl. Dis. Study, Univ. Georgia, Athens, GA; THOMAS M. MURPHY, Wildl. Div., South Carolina Dept. Nat. Res., Green Pond, SC; and WILLIAM W. BOWERMAN, Clemson Univ.
- 722 Conservation strategies for three populations of Burrowing Owls in New Mexico. CAROL A. FINLEY, Hawks Aloft, Albuquerque, NM; M. HILDEGARD REISER, 49th CES/CEV, Holloman AFB, NM; PATRICIA C. ARROWOOD, Dept. Fish. & Wildl., New Mexico State Univ., Las Cruces, NM; BOBBY DOW, 377 SPTG/CEVQ, Kirtland AFB, NM; and KRISTINE JOHNSON, Biol. Dept, Univ. New Mexico, Albuquerque, NM.
- 723 The anatomy of avian feathers. PETER STETTENHEIM and JAN DYCK, Plainfield, NH.
- 724 vacant
- 725 *Importance of habitat characteristics at multiple scales on the nest success of the Prothonotary Warbler. JILL GANNON and ROBERT J. COOPER, Warnell School For. Res., Univ. Georgia, Athens, GA.
- 726 Fatty acid composition of depot fat in Arctic-nesting shorebirds during spring migration. DAVID A. RINTOUL, Biol. Div., Kansas State Univ., Manhattan KS, and JAMES RIVERS, Kansas Coop. Fish & Wildl. Res. Unit, Biology Div., Kansas State Univ.
- 727 Do aspen stands influence productivity of ponderosa pine forest birds? JILL D. CLIFTON and PAUL BEIER, For. Dept., Northern Arizona Univ., Flagstaff, AZ.
- 728 The habitat concept in ornithology revisited. MATTHEW D. JOHNSON, Dept. Wildl., Humboldt State Univ., Arcata, CA.
- 729 A comparison of nocturnal call counts of migrating birds and reflectivity measurements on Doppler radar (WSR-88D). ANDREW FARNSWORTH, Nat. Audubon Soc., New York, NY; SIDNEY A. GAUTHREAUX, Dept. Biol. Sci., Clemson Univ., Clemson, SC; and DONALD VAN BLARICOM, Strom Thurmond Inst., Clemson Univ., Clemson, SC.
- 730 Guidelines to prevent violation of the Migratory Bird Treaty Act. THOMAS P. RYAN, JOANNA CEZNIAK, ROBIN E. DAKIN, DAVID L. PLUMPTON and SCOTT B. TERRILL, H. T. Harvey & Associates., San Jose, CA.
- 731 Behavioral support for genetic benefits of extra-pair copulations by female Waved Albatrosses. KATHRYN P. HUYVAERT and PATRICIA G. PARKER, Dept. Biol., Univ. Missouri-St. Louis, St. Louis, MO.
- 732 Fifty-year changes in breeding bird populations on the Allegheny Plateau. CHANDLER S. ROBBINS and BARBARA A. DOWELL, USGS Patuxent Wildl. Res. Center, Laurel, MD.
- 733 Abundance and diversity of birds over an elevational gradient in the Sierra Nevada. KATHRYN L. PURCELL and DOUGLAS A. DRYNAN, USDA For. Serv., Pacific Southwest Res. Sta., Sierra Nevada Res. Center, Fresno, CA.
- 734 Estimating population size and setting conservation targets for North American land birds. KENNETH V. ROSENBERG, Cornell Lab. Ornithol., Ithaca, NY, PETER J. BLANCHER, Bird Studies Canada, Ottawa, ON, and JEFFREY V. WELLS, Natl. Audubon Soc.
- 735 Habitat and nesting success in mixed-grass prairie: does it really matter where you put your basket? J. SCOTT DIENI, Redstart Consulting, Evergreen, CO, STEPHANIE L. JONES, USFWS, Nongame Migratory Bird Program, Denver, CO, and PAULA GOUSE, US Fish & Wildl. Serv., Bowdoin Natl. Wildl. Refuge, Malta, MT.
- 736 Models for evaluating Peregrine Falcon breeding habitat in West Greenland. C. WIGHTMAN, Raptor Res. Center, Boise State Univ., Boise, ID, and M. FULLER, US Geol. Surv., Boise, ID.
- 737 Trophic cascades and bird communities: how the loss of grizzly bears and wolves can affect

SCIENTIFIC SESSIONS--FRIDAY

- the diversity of riparian birds. PETER B. STACEY, Dept. Biol., Univ. New Mexico, Albuquerque, NM; and JOEL BERGER, Wildl. Conserv. Soc., Teton Field Office, Moose WY.
- 738 Habitat use of the Three-toed Woodpecker during the breeding period. PETER PECHACEK and WERNER d OLEIRE-OLTMANNNS, Nationalparkverwaltung, Berchtesgaden, Germany.
- 739 Molecular systematics of the genus Accipiter: a preliminary analysis. JOSHUA M. HULL, Dept. Biol., Sonoma State Univ., Rohnert Park, CA, and Golden Gate Raptor Observatory, Sausalito, CA, and DEREK GIRMAN, Dept. Biol., Sonoma State Univ.
- 740 Studies on West Nile Virus in migratory birds at Eilat, Israel. REUVEN YOSEF, Internatl. Birding & Res. Centre in Eilat, Eilat, Israel, MERTYN MALKINSON, Kimron Vet. Inst., Bet Dagan, Israel, and RONI KING, Nature Reserves & Parks Authority, Jerusalem, Israel.
- 741 Use of counts and banding in detecting changes in songbird population during migration. SCOTT SOMERSHOE, USGS-Patuxent Wildl. Res. Center, Vicksburg, MS, and C. RAY CHANDLER, Dept. Biol., Georgia Southern Univ., Statesboro, GA.
- 742 Habitat use by Swainson's Warblers in a managed bottomland forest. SCOTT SOMERSHOE, USGS-Patuxent Wildl. Res. Center, Vicksburg, MS; STEVEN HUDMAN, Dept. Biol., Univ. Vermont, Burlington, VT, and C. RAY CHANDLER, Dept. Biol., Georgia Southern Univ., Statesboro, GA.
- 743 Lead effects on neurobehavioral development in gulls. JOANNA BURGER, Div. Life Sci., Rutgers Univ., Piscataway, NJ, and MICHAEL GOCHFELD, Environ. & Community Medicine, UMDNJ-Robert Wood Johnson Med. School, Piscataway, NJ.
- 744 The European Endangered Species Programme for the Indian White-backed Vulture *Gyps bengalensis*: current status and future potential. CAMPBELL MURN, The Hawk Conservancy Trust, Andover, Hampshire, England.
- 745 Influence of age and dispersal on reproductive success in Cliff Swallows. KARL L. KOSCIUCH, KEITH A. ARNOLD, TRACEY N. JOHNSON and PATRICIA J. SIKES, Dept. Wildl. & Fish. Sci., Texas A&M Univ., College Station, TX.
- 746 Piping Plover biology and conservation at Lake Diefenbaker, Saskatchewan. J. PAUL GOOSSEN and SHARILYN M. WESTWORTH, Canadian Wildl. Serv., Edmonton, AB.

Saturday, 28 Sep 2002

08:00 Continental Breakfast, Hotel Inter-Continental, Third Floor

09:00 P4 Plenary 4 (LaSalle BC; and video feed to overflow location to be announced).
Migratory orientation: development and adaptive plasticity. KENNETH P. ABLE,
Dept. Biol. Sci., Univ. at Albany, SUNY, Albany, NY.

10:00 Coffee Break, Hotel Inter-Continental, Third Floor

Symposium O (Poydras). CIPAMEX symposium.

10:30 S116 Research and conservation efforts in Mexico: an overview. MAURICIO
CERVANTES-ABREGO, CIPAMEX.

10:45 S117 The IBA' s program in Mexico, current status and reorganization. JOSÉ MANUEL
GALINDO-JARAMILLO, CIPAMEX/International Consultant.

11:00 S118 Assessing the status of bird species in Mexico. PATRICIA ESCALANTE and
VERONICA NÉQUIZ, Inst. Biol. UNAM, Mexico City, Mexico.

11:15 S119 PROAVES: Threatened birds and their habitats in Mexico conservation program.
JOSE L. ALCANTARA, CIPAMEX/Colegio de Postgraduados, Mexico, and M.
CERVANTES-ABREGO, CIPAMEX.

11:30 S120 Implementation of the North American Bird Conservation Initiative (NABCI), a model of
tri-national integrated cooperation. HUMBERTO BERLANGA, NABCI-Mexico National
Coordinator, Mexico City, Mexico.

11:45 S121 Avian species conservation assessment for Mexican birds: an integration of the North
American avifauna. EDUARDO E. IÑIGO-ELIAS, Cornell Lab. Ornithol., Ithaca, NY;
H. BERLANGA, NABCI-Mexico-CONABIO; and K. ROSENBERG, Partners in Flight
and Cornell Lab. Ornithol.

12:00 S122 Towards improved ornithological communication in Mexico: HUITZIL, Journal of
Mexican Ornithology and Database of Ornithologists working in Mexico. RAUL
ORTIZ-PULIDO, Centro de Investigaciones Biologicas, Universidad Autonoma del
Estado de Hidalgo, Mexico.

Session 10C (Cabildo). Conservation. Nathalie J. Hamel, chair.

10:30 327 *Passeriformes trade in Mexico: a challenge for conservation. XAVIER
LÓPEZ-MEPELLÍN, Facultad de Ciencias, UNAM, and EDUARDO E. IÑIGO-ELIAS,
Cornell Lab. Ornithol., Ithaca, NY.

10:45 328 Empirical evidence explaining high avian diversity in the tropics. DOUGLAS A.
JAMES, Dept. Biol. Sci., Univ. Arkansas, Fayetteville, AR.

11:00 329 *Is there a (by)catch? spatio-temporal overlap of Common Murres and gillnet fishing
in Washington. NATHALIE J. HAMEL, School Aquatic & Fish. Sci., Univ. Washington,
Seattle, WA.

11:15 330 *Landowner influences on birds across rural-to-urban landscapes. CHRISTOPHER A.
LEPCZYK, Dept. Fish. & Wildl., Michigan State Univ., East Lansing, MI.

11:30 331 *The relative importance of local vegetation and landscape pattern to Seattle's native
bird communities. ROARKE DONNELLY and JOHN MARZLUFF, Coll. For. Res., Univ.
Washington, Seattle, WA.

11:45 332 *Songbird responses to management of a midwestern riparian floodplain. THOMAS J.
BENSON, Dept. Animal Ecol., Iowa State Univ., Ames, IA.

12:00 333 *Effects of management activities on upland nesting waterfowl and American
Bitterns. CASEY ARMOUR, Biol. Dept., Univ. North Dakota, Grand Forks, ND.

12:15 334 Distribution and abundance of colonial waterbirds nesting in south Louisiana, 2001.
THOMAS C. MICHOT, CLINTON W. JESKE, USGS, Natl. Wetlands Res. Ctr.,
Lafayette, LA; JOYCE C. MAZOUREK and WILLIAM VERMILLION, US Fish & Wildl.
Serv., Lafayette, LA.

SCIENTIFIC SESSIONS--SATURDAY

Session 10D (Pan-Am auditorium). Migration. David N. Bonter, chair.

- 10:30 335 *Differential migratory timing of male and female Western Sandpipers on the southward migration. AMANDA C. NIEHAUS, DAVID B. LANK and RON C. YDENBERG, Dept. Biol. Sci., Simon Fraser Univ., Burnaby, BC.
- 10:45 336 Effects of blood sampling on survival and fecundity of a Nearctic - Neotropical migratory songbird. T. SCOTT SILLETT, Smithsonian Migratory Bird Center, Natl. Zool. Park, Washington, DC; JAMES D. NICHOLS, JAMES E. HINES, Patuxent Wildl. Res. Center, U.S. Geol. Surv., Laurel, MD; MICHAEL S. WEBSTER, School Biol. Sci., Washington State Univ., Pullman, WA; and RICHARD T. HOLMES; Dept. Biol. Sci., Dartmouth Coll., Hanover, NH.
- 11:00 337 *Selection of stopover habitat by fall trans-gulf migrant landbirds in the Yucatan Peninsula. JILL L. DEPPE, Dept. Biol., Univ. California, Riverside, CA.
- 11:15 338 *Divergent migration directions in the Great Lakes basin: the result of atmospheric circulation? DAVID N. BONTER, Vermont Coop. Fish & Wildl. Res. Unit, Univ. Vermont, Burlington, VT, SIDNEY A. GAUTHREAU, Dept. Biol., Clemson Univ., Clemson, SC, and THERESE M. DONOVAN, Vermont Coop. Fish & Wildl. Res. Unit.
- 11:30 339 *Nutrient reserves of Lesser Scaup during spring migration in the Mississippi Flyway: a test of the spring condition hypothesis. MICHAEL J. ANTEAU and ALAN D. AFTON, USGS Louisiana Coop. Fish & Wildl. Res. Unit, Louisiana State Univ., Baton Rouge, LA.
- 11:45 340 *Where do Yellow Warblers go? an application of genetic markers as a tool to assess migratory connectivity among breeding and wintering grounds. MARYLENE BOULET, Dept. Biol., McMaster Univ., Hamilton, ON; H. LISLE GIBBS, Dept. Evol., Ecol. & Org. Biol., Ohio State Univ., Columbus, OH; and KEITH A. HOBSON, Prairie and Northern Res. Centre, Canadian Wildl. Serv., Saskatoon, SK.
- 12:00 341 *Differential migration among long-distance migratory birds. OLIVER KOMAR, Nat. Hist. Mus. and Dept. Ecol. & Evol. Biol., Univ. Kansas, Lawrence, KS; and BRIAN J. O'SHEA, Field Mus., Chicago, IL.
- 12:15 342 *The evolution of migration in the Motacillidae. DIANA C. OUTLAW and GARY VOELKER, Barrick Mus., Univ. Nevada, Las Vegas, NV.

Session 10E (Pontalba). Ecology. John C. Withey, chair.

- 10:30 343 Changing patterns in a Black-capped Chickadee population. SUSAN M. SMITH, Mount Holyoke Coll., South Hadley, MA.
- 10:45 344 *Diversity and occurrence of boreal migrant songbirds in the Darien Region, Choco, northwestern Colombia: a migration monitoring program initiative. GABRIEL J. COLORADO, Dept. For. Sci., Univ. Nal. Colombia, and PAULA A. SUCERQUIA, Geo. Dept, Univ. Eafit, Colombia.
- 11:00 345 *Relating food availability, diet, and foraging behavior of autumn passerine migrants in Idaho. JAY D. CARLISLE, Dept. Biol., Univ. South Dakota, Vermillion, SD, and Idaho Bird Observatory, Boise, ID.
- 11:15 346 *Do adolescent crows become young urban crows? juvenile dispersal of American Crows across a gradient of urbanization. JOHN C. WITHEY and JOHN M. MARZLUFF, Coll. For. Res., Univ. Washington, Seattle, WA.
- 11:30 347 Dispersal of the San Clemente Sage Sparrow. NICOLE MUNKWITZ, Inst. Wildl. Stud., Arcata, CA; T. LUKE GEORGE, FREDERIC BEAUDRY, Dept. Nat. Res., Humboldt State Univ., Arcata, CA; and DAVID K. GARCELON, Inst. Wildl. Stud., Arcata, CA.
- 11:45 348 Are Eurasian Collared-Doves occupying an empty niche in North America? WESLEY M. HOCHACHKA and MELINDA S. LaBRANCHE, Lab. Ornithol., Cornell Univ., Ithaca, NY.
- 12:00 349 Diurnal habitat use by American Woodcock wintering in east Texas. JEFFREY P. DUGUAY, CODY B. BERRY and R. MONTAGUE WHITING, Jr., Arthur Temple Coll. For., Stephen F. Austin State Univ., Nacogdoches, TX.
- 12:15 350 Intraspecific territoriality and site fidelity of wintering Willow Flycatchers in Costa Rica. THOMAS J. KORONKIEWICZ, MARK K. SOGGE and CHARLES VAN RIPER III, USGS/FRESC Colorado Plateau Field Sta., Northern Arizona Univ., Flagstaff, AZ.

SCIENTIFIC SESSIONS--SATURDAY

Session 10F (LaSalle - B). Breeding biology. Ralph S. Hames, chair.

- 10:30 351 A test of the heterozygosity theory of mate choice in the Black-throated Blue Warbler. SARAH A. BARTOS, MICHAEL S. WEBSTER, School Biol. Sci., Washington State Univ., Pullman, WA; and RICHARD T. HOLMES, Dept. Biol. Sci., Dartmouth Coll., Hanover NH.
- 10:45 352 Determinants of brood desertion in the monogamous Western Sandpiper. JULIETTE A. NEVILLE, Dept. Biol. & Wild., Univ. Alaska Fairbanks, Fairbanks, AK.
- 11:00 353 *Predation-induced renesting influences maternal and nestling condition. DANA L. MORRIS and JOHN FAABORG, Div. Biol. Sci., Univ. Missouri, Columbia, MO.
- 11:15 354 Effects of acid rain and forest fragmentation on multiple-year breeding-site occupation by the Wood Thrush. RALPH S. HAMES, KENNETH V. ROSENBERG, JAMES D. LOWE, SARA E. BARKER and ANDRÉ A. DHONDT, Lab. Ornithol., Cornell Univ., Ithaca, NY.
- 11:30 355 *Effects of habitat quality on the reproductive success of the Brown-headed Nuthatch. L. LYNNETTE BROCK, D. BRENT BURT, Dept. Biol, S. F. Austin State Univ., Nacogdoches, TX; DEAN W. COBLE, Coll. For., S. F. Austin State Univ., and RICHARD N. CONNER, Southern Res. Sta., USFS, Nacogdoches, TX.
- 11:45 356 Mating systems and behaviour of tropical flycatchers. BRIDGET J. M. STUTCHBURY, Dept. Biol., York Univ., Toronto, ON, EUGENE S. MORTON, Cons. Research Ctr., Smithsonian Inst., Front Royal, VA, and JAMES S. QUINN, Dept. Biology, McMaster Univ., Hamilton, ON.
- 12:00 357 Nestling feeding and attendance rates in cooperatively breeding groups of American Crows. TIFFANY J. WESTON and CAROLEE CAFFREY, Dept. Zool., Oklahoma State Univ., Stillwater, OK.
- 12:15 358 Nesting territories and nest site selection in Pacific and American Golden-Plovers at Nome, Alaska. PHILLIP L. BRUNER, ANDREA E. BRUNER and ROBERT N. WINGET, Dept. Biol., Brigham Young Univ. Hawaii, Laie, HI.

Session 10G (LaSalle - C). Forest ecology. Gerald Niemi, chair.

- 10:30 359 Biodiversity distribution of breeding bird communities in forests. GERALD NIEMI, NICK DANZ, JOANN HANOWSKI, MALCOLM JONES and JAMES LIND, Nat. Resources Res. Inst., Univ. Minnesota, Duluth, MN.
- 10:45 360 Effects of forest management practices on avian community structure. DONALD B. MILES and TERESA DENNIS, Dept. Biol. Sci., Ohio Univ., Athens, OH.
- 11:00 361 Understory bird community in a humid montane forest in Chiapas, Mexico. TOM WILL, U.S. Fish & Wildl. Serv., Fort Snelling, MN; JOSE LUIS RANGEL SALAZAR and PAULA L. ENRIQUEZ ROCHA, El Colegio de la Frontera Sur, San Cristobal de Las Casas, Mexico.
- 11:15 362 Adaptation on islands: crossbills and lodgepole pine. ADAM M. SIEPIELSKI and CRAIG W. BENKMAN, Dept. Biol., New Mexico State Univ. Las Cruces, NM.
- 11:30 363 Effects of height and vegetation on success of bird nests in maritime forests. SHARON DeFALCO, Endang. & Nongame Species Prog., New Jersey Fish & Wildl., Trenton, NJ, and C. RAY CHANDLER, Dept. Biol., Georgia Southern Univ., Statesboro, GA.
- 11:45 364 The adaptive surface for western North American Red Crossbills: divergent selection has driven their radiation. CRAIG W. BENKMAN, Dept. Biol., New Mexico State Univ., Las Cruces, NM.
- 12:00 365 Potential impacts of climate change on forest breeding birds in the southern Appalachians -- If you can't stand the heat, get out of the kitchen. DANIEL H. KIM, DAVID A. BUEHLER, Dept. For., Wildl. & Fish., Univ Tennessee, Knoxville, TN, ERIC T. LINDER, Dept. Biol., Mississippi State Univ., Starkville MS, and KATHLEEN FRANZREB, USDA For. Serv., Southern Appalachians Coop. Ecosys. Stud. Unit, Knoxville, TN.
- 12:15 366 *Patterns of ecological and morphological diversity in temperate and tropical woodpeckers. ALISON R. STYRING, Dept. Biol. Sci. and Mus. Nat. Sci., Louisiana State Univ., Baton Rouge, LA.

SCIENTIFIC SESSIONS--SATURDAY

Session 10H (Vieux Carré - AB). Conservation. Gregory S. Butcher, chair.

- 10:30 367 Contamination levels in piscivorous birds in the South San Francisco Bay. CHERYL M. STRONG, San Francisco Bay Bird Observ., Alviso, CA, and TERRY ADELSBACH, U.S. Fish & Wildl. Serv. Environ. Contaminants Div., Sacramento, CA.
- 10:45 368 Bird conservation planning for the central mixed-grass physiographic area of Kansas and Nebraska. GREGORY S. BUTCHER, Partners in Flight, Brookfield, WI.
- 11:00 369 Productivity of the Aplomado Falcon in Chihuahua, Mexico. ALBERTO MACIAS-DUARTE, The Peregrine Fund, Chihuahua, Mexico, ALBERTO LAFON-TERRAZAS, Universidad Autónoma de Chihuahua, Chihuahua, México; ANGEL B. MONTOYA, The Peregrine Fund, Boise ID; and ROBERT TAFANELLI, Border Wildl. Consultants, Las Cruces NM.
- 11:15 370 The effects of purple loosestrife (*Lythrum salicaria*) on wetland birds in northeastern Illinois. J. DYLAN MADDIX, Dept. Nat. Res. & Environ. Sci., Univ. Illinois, Urbana, IL; and ROBERT N. WIEDENMANN, Illinois Nat. Hist. Surv., Champaign, IL.
- 11:30 371 Population trends in colonial waterbirds in coastal Louisiana, 1993 - 1999. PAUL L. LEBERG, Dept. Biol., Univ. Louisiana, Lafayette, LA; WILLIAM VERMILLION, US Fish & Wildl. Serv., Lafayette, LA; MIKE CARLOSS, USDA-NRCS, Lafayette, LA; GREG LINScombe, Louisiana Dept. Wildl. & Fish., New Iberia, LA; and BILLY LEONARD, US For. Serv., Albuquerque, NM.
- 11:45 372 Are Cooper's Hawks reducing American Kestrel populations by predation? DANIEL ARDIA, Lab. Ornithol., Cornell Univ., Ithaca, NY; DAVID M. BIRD, Avian Sci. & Conserv. Centre, McGill Univ., Ste. Anne de Bellevue, PQ; JOHN SMALLWOOD, Montclair State Univ., Upper Montclair, NJ; JOANNE MASON, Univ. Massachusetts Cranberry Sta., East Wareham, MA; MICHAEL MAURER, Marion, MA; and KEITH BILDSTEIN, Hawk Mountain Sanctuary, Kempton, PA.
- 12:00 373 Predation of real and artificial grassland bird nests in the northern mixed-grass prairie: does patch size influence nest success? STEPHEN K. DAVIS, Saskatchewan Wetland Conservation Corp. Regina, SK.
- 12:15 374 Effects of burn interval on Henslow's Sparrows wintering in southeastern Louisiana pine savannas. CATHERINE L. BECHTOLDT and PHILIP C. STOUFFER, Dept. Biol. Sci., Southeastern Louisiana Univ., Hammond, LA.
- 12:30 Lunch Break; for options see FOOD section, p. 8 above

Symposium P (Vieux Carré - B). The ecology of cavity nesters: keystone processes. J. Bednarz, P. Radley & D. Ripper, organizers.

- 14:00 S123 Cavity nester communities in British Columbia: nest webs, keystone excavators and resource bottlenecks. KATHY MARTIN, For. Sci., Univ. British Columbia, Vancouver.
- 14:15 S124 Complexities of snag decay in ponderosa pine: how foraging woodpeckers may influence decay patterns and subsequent nest-site quality. KERRY L. FARRIS, Wildlife Conservation Society, Tucson, AZ and STEVE ZACK, Wildlife Conservation Society, Portland, OR.
- 14:30 S125 Species interactions among tree hole users: do some species exhibit disproportionately large effects on the community? ERIC L. WALTERS and FRANCES C. JAMES, Florida State Univ., Tallahassee, FL.
- 14:45 S126 Woodpecker nest sites: the role of fungi and microclimate. JEROME A. JACKSON, Whitaker Center for Sci., Math. & Tech. Edu., Florida Gulf Coast Univ., Ft. Myers, FL.
- 15:00 S127 Persistence of nest cavities in burned forests. VICTORIA A. SAAB, JONATHAN G. DUDLEY, Rocky Mountain Res. Sta., Boise, ID; and WILLIAM L. THOMPSON, Dept. Biol. Sci., Univ. Arkansas, Fayetteville, AR.
- 15:15 S128 Who's in holes, what's the supply, and how five small owls fit. FREDERICK R. GEHLBACH, Dept. Biol., Baylor Univ., Waco, TX.
- 15:30 Refreshment Break, Hotel Inter-Continental, Third Floor
- 16:00 S129 Fauna from Ferruginous Pygmy-Owl and Eastern Screech-Owl nest cavities. GLENN A. PROUDFOOT, PETE D. TEEL, R. DOUGLAS SLACK and RODNEY L. HONEYCUTT, Texas A&M Univ., College Station, TX.
- 16:15 S130 Selective logging and time lag in a tropical rainforest: delayed impacts on Southeast

SCIENTIFIC SESSIONS--SATURDAY

- Asian woodpeckers. ALISON R. STYRING, Mus. Nat. Sci., Louisiana State Univ., Baton Rouge, LA.
- 16:30 S131 *Cavity-nesting communities and requirements of the keystone cavity-excavator, Hairy Woodpecker, in the managed forests of the northwest Olympic Peninsula. DANA RIPPER, JAMES C. BEDNARZ, DAVID JULIANO, MARTIN J. HUSS, Dept. Biol. Sci., Arkansas State Univ., Jonesboro, AR, and DANIEL E. VARLAND, Rayonier Inc., Hoquiam, WA.
- 14:45 S132 Community interactions associated with Red-cockaded Woodpecker cavities. JOHN J. KAPPES, Jr. Dept. Wildl. Ecol. & Conserv., Univ. Florida, Gainesville, FL.
- 15:00 S133 Keystone interactions of Red-cockaded Woodpeckers in southern pine ecosystems. RICHARD N. CONNER, Southern Res. Sta., Nacogdoches, TX.

Symposium Q (Vieux Carré - A). Natural climate variability and birds: recent advances in our understanding of worldwide climate systems, and an examination of their effect on avian population dynamics. E. A. Schreiber & D. Gemmill, organizers.

- 14:00 S134 Major modes of intraseasonal to interannual climate variability: importance for field ornithology. VERNON E. KOUSKY, Climate Prediction Center, Camp Springs, MD.
- 14:45 S135 Marine birds of the southern California current ecosystem: community, population, demographic, and foraging responses to climatic variability. WILLIAM J. SYDEMAN, K. DAVID HYRENBACH, KYRA L. MILLS, CHRISTINE A. ABRAHAM, PETE WARZYBOK, Marine Sci. Div., Point Reyes Bird Observ., Stinson Beach, CA; and RICHARD R. VEIT, Coll. Staten Island, Staten Island, NY.
- 15:15 S136 Influences of climate oscillations on avian populations and reproductive success in forests of the Pacific Northwest. M. PHILIP NOTT, DAVID F. DeSANTE, RODNEY B. SIEGEL and PETER PYLE, The Institute for Bird Populations, Point Reyes Bird Observ., Stinson Beach, CA
- 15:40 S137 Trying to monitor a moving target - climate variability and interannual shifts in bird distributions. JEFF PRICE, American Bird Conservancy, Boulder, CO.
- 16:30 S138 Seabird responses to oceanographic variability in the Northern and Southern Hemisphere. WILLIAM A. MONTEVECCHI, Memorial Univ. Newfoundland, St. John's, NF; and RICHARD R. VEIT, Staten Island Coll., City Univ. New York, NY.
- 16:55 S139 Climate resources for ornithologists. DAPHNE GEMMILL, Climate Prediction Center, Natl. Oceanic and Atmospheric Admin., Camp Springs, MD.
- 17:10 S140 Climate variability and bird adaptability: future directions for bird research in relation to climate factors. E. A. SCHREIBER, Natl. Mus. Nat. Hist., Washington, DC.

Session 11C (Cabildo). Systematics. J. D. Rising, chair.

- 14:00 375 Phylogeography of two bird species in the Philippines. ANDREW W. JONES, Bell Mus., Univ. Minnesota, MN; ROBERT S. KENNEDY, Maria Mitchell Assoc., Nantucket, MA; and ROBERT M. ZINK, Bell Mus.
- 14:15 376 Phylogeny and biogeography of tanagers in the genus *Tangara* (Thraupidae). KEVIN J. BURNS, Dept. Biol., San Diego State Univ., San Diego, CA; and KAZUYA NAOKI, Dept. Biol. Sci. and Mus. Nat. Sci., Louisiana State Univ., Baton Rouge, LA.
- 14:30 377 Historical and null hypotheses of bird speciation in the Amazon: new ideas revive an old-fashioned view. MARIO COHN-HAFT, Colecoes Zoologicas-INPA, Manaus, AM, Brazil, and G. BRUCE WILLIAMSON, Dept. Plant Sci., Louisiana State Univ., Baton Rouge, LA.
- 14:45 378 Phylogeny of the Accipitridae. CAROLE S. GRIFFITHS, Biol. Dept., Long Island Univ., Brooklyn, NY and Ornith. Dept., Am. Mus. Nat. Hist., New York, NY, JEFF G. GROTH and GEORGE BARROWCLOUGH, Ornith Dept, Am. Mus Nat Hist, New York.
- 15:00 379 Phylogeography of the Ruffed Grouse in North America. PATRICIA H. BRITO, GEORGE F. BARROWCLOUGH, Am. Mus. Nat. Hist., New York, NY, and R. J. GUTIÉRREZ, Dept. Fish. & Wildl., Univ. Minnesota, St. Paul, MN.
- 15:15 380 Geographic variation in plumage pattern and color in Savannah Sparrows. J. D. RISING and D. A. JACKSON, Dept Zool., Univ. Toronto, Toronto, ON.

Session 11D (Pan-Am Auditorium). Breeding biology. Nancy J. Clum, chair.

- 14:00 381 Breeding biology of Rose-ringed Parakeets in the UK. CHRIS BUTLER, Dept. Zool.,

SCIENTIFIC SESSIONS--SATURDAY

- Univ. Oxford, Oxford, UK.
- 14:15 382 Effects of early growth on breeding probability of Black Brant. JAMES S. SEDINGER, MARK P. HERZOG, Environ. & Res. Sci., Univ. Nevada Reno, Reno, NV, and DAVID H. WARD, U.S. Geol. Surv., Anchorage, AK.
- 14:30 383 Between year variation in the timing of breeding by Florida Scrub-Jays: similarities and differences between populations. REED BOWMAN, GLEN E. WOOLFENDEN, Archbold Biol. Sta., Lake Placid, FL; and JOHN W. FITZPATRICK, Cornell Lab. Ornithol., Ithaca, NY.
- 14:45 384 Sharp-tailed Sparrow hybridization in New England. W. GREGORY SHRIVER, State Univ. New York, THOMAS P. HODGMAN, Maine Dept. Inland Fish. & Wildl., PETER D. VICKERY, Center Ecol. Res., and J. P. GIBBS, State Univ. New York.
- 15:00 385 Space use, migratory connectivity, and population segregation among Willets breeding in the Western Great Basin. SUSAN M. HAIG, USGS For. & Rangeland Ecosys. Sci. Center, Corvallis, OR; LEWIS W. ORING, Univ. Nevada, Reno, NV; PETER M. SANZENBACHER and ORIANE W. TAFT, USGS For & Rangeland Ecosys. Sci. Center, Corvallis, OR.
- 15:15 386 Vacant

Session 11E (Pontalba). Conservation. Felipe Chavez-Ramirez, chair.

- 14:00 387 Evaluating abundance of Cuban Sandhill Cranes through habitat use patterns and home range on the Isle of Youth, Cuba. FELIPE CHAVEZ-RAMIREZ, Internatl. Crane Found. and Platte River Whooping Crane Trust, Wood River, NE, and XIOMARA GALVEZ AGUILERA, Empresa Nacional para la Proteccion de Flora y Fauna, Ministerio de Agricultura, Havana, Cuba.
- 14:15 388 Habitat use in Western Bluebirds in California's oak savanna. CATHERINE GRAHAM, Mus. Vert. Zool., Univ. California, Berkeley, CA, and JANIS DICKINSON, Hastings Nat. Hist. Res., Carmel Valley, CA.
- 14:30 389 Influences of supplementally fed elk on aspen and associated landbirds in and near Jackson Hole, Wyoming. ERIC M. ANDERSON and STANLEY H. ANDERSON, Dept. Zool. & Phys., Univ. Wyoming, Laramie, WY.
- 14:45 390 Habitat recolonization by permanent-resident birds in a fragmented landscape: a manipulative study. JEREMIAH D. GROOM and THOMAS C. GRUBB, Jr., Dept. EEO Biol., Ohio State Univ., Columbus OH.
- 15:00 391 Effects of forest degradation on bird communities in the Cockpit Country, a limestone karst region of Jamaica. HERLITZ A. DAVIS and PETER VOGEL, Dept. Life Sci., Univ. West Indies, Kingston, Jamaica.
- 15:15 392 Patterns of species richness in a naturally patchy juniper woodland. DAVID C. PAVLACKY Jr., Dept. Fish. & Wildl., Univ. Minnesota, St. Paul, MN, and STANLEY ANDERSON, Wyoming Coop. Fish & Wildl. Res. Unit, Univ. Wyoming, Laramie, WY.

Session 11J (Poydras). Ecology. Matthias Leu, chair.

- 14:00 393 The response of song birds to varying levels and patterns of green-tree retention: an experiment. MATTHIAS LEU and DAVID A. MANUWAL, Coll. For. Res., Univ. Washington, Seattle, WA.
- 14:15 394 Response of wintering grassland birds to vegetation structure and composition. JANET M. RUTH, USGS, Albuquerque, NM, and CALEB E. GORDON, Lake Forest Coll., Lake Forest, IL.
- 14:30 395 Breeding and fall bird use of burned and unburned habitats in southwest Idaho. GREGORY S. KALTENECKER, Idaho Bird Observatory, Dept. Biol., Boise State Univ., Boise, ID; ANN M. ROCKLAGE, Idaho Power Co., Boise, ID; and JAY D. CARLISLE, Dept. Biol., Univ. South Dakota, Vermillion, SD.
- 14:45 396 Rates of predation on artificial and real nests along an urban to rural land use gradient. ROBERT REITSMA and PETER P. MARRA, Smithsonian Environ. Res. Center, Edgewater, MD.
- 15:00 397 Habitat dependent burn response in grassland birds. JAMES R. HERKERT, The Nature Conservancy, Peoria, IL.
- 15:15 398 Reproductive failure in the coastal sage scrub avifauna during an extreme climatic event. DOUGLAS T. BOLGER and MICHAEL A. PATTEN, Environ. Stud. Prog., Dartmouth Coll., Hanover, NH.

SCIENTIFIC SESSIONS--SATURDAY

15:30 Refreshment Break, Hotel Inter-Continental, Third Floor

Session 12C (Cabildo). Conservation. John Rotenberry, chair.

- 16:00 399 An investigation of bird species of concern in three climax upland communities in northern Mississippi: implications for management of second-growth upland forests. DOUGLAS S. HOHMAN, Dept. Biol., Univ. Mississippi, University, MS, and STEVEN M. AQUILANI, Dept. Biol., Delaware Co. Coll., Media, PA.
- 16:15 400 Black death on the prairie: plague, prairie dogs, and Burrowing Owls. MARCO RESTANI, Dept. Biol. Sci., St. Cloud State Univ., St. Cloud, MN.
- 16:30 401 Influence of recreational land use on bird community composition. BILLY P. LEONARD, USDA For. Serv., Rocky Mountain Res. Sta., Albuquerque, NM; PAUL L. LEBERG, Dept. Biol., Univ. Louisiana-Lafayette, Lafayette, LA; and CLINTON W. JESKE, USGS Natl. Wetlands Res. Center, Lafayette, LA.
- 16:45 402 Direct vs. indirect effects of urban edge on bird distributions in coastal sage-scrub vegetation. JOHN ROTENBERRY, WILLIAM KRISTAN III, MARY PRICE, Dept. Biol., Univ. California, Riverside, CA; and ANTONY LYNAM, Wildlife Conserv. Soc., Bangkok, Thailand.
- 17:00 403 Survival of juvenile and subadult California Condors released in Arizona. CHRISTOPHER P. WOODS and WILLIAM R. HEINRICH, Peregrine Fund, Boise, ID.

Session 12D (Pan-Am Auditorium). Behavior. David B. McDonald, chair

- 16:00 404 *Landscape and local effects on snags and cavity-nesting birds in urban areas. TINA ROHILA and JOHN MARZLUFF, Coll. For. Res., Univ. Washington, Seattle WA.
- 16:15 405 Structural and pheomelanin coloration indicate parental effort and reproductive success in male Eastern Bluebirds. LYNN SIEFFERMAN and GEOFFREY E. HILL, Dep. Biol. Sci., Auburn Univ., Auburn, AL.
- 16:30 406 Genes and GIS: mating system, phylogeography and habitat use of rosy-finches. DAVID B. McDONALD, Dept. Zool., Univ. Wyoming, Laramie, WY.
- 16:45 407 Reproductive success of three sympatrically breeding loon species in northern Alaska. SUSAN L. EARNST, USGS For. & Range. Ecosys. Sci. Center, Boise, ID.
- 17:00 408 Breeding biology and nest site selection of Red-tailed Hawks in southern Arizona. ROYDEN J. HOBBS, Dept. Wildl. & Fish. Sci., Univ. Arizona, Tucson, AZ; STEPHEN DeSTEFANO, Massachusetts Coop. Fish & Wildl. Res. Unit, Univ. Massachusetts, Amherst, MA, and WILLIAM L. HALVORSON, USGS Sonoran Desert Field Sta., Univ. Arizona, Tucson, AZ.

Session 12E (Pontalba). Foraging and diet. Margaret Rubega, chair.

- 16:00 409 Why do parrots eat dirt? A study of avian geophagy in Peru. DONALD J. BRIGHTSMITH, Dept. Biol., Duke Univ., Durham, NC, and ROMINA ARAMBURÚ MUÑOZ-NAJAR, Universidad Nacional Agraria La Molina, Lima, Peru.
- 16:15 410 Diet of breeding Northern Goshawks in east-central Arizona. ANDI S. ROGERS, MICHAEL F. INGRALDI, Arizona Game & Fish Dept., Phoenix, AZ; and STEPHEN DeSTEFANO, USGS/MA Coop. Fish & Wildl. Res. Unit, Univ. Massachusetts, Amherst, MA.
- 16:30 411 Variation and stereotypy in avian feeding: motor patterns and feeding mechanics in the Ruddy Turnstone. MARGARET RUBEGA, CARINA GJERDRUM and GREGOR YANEGA, Dept. Ecol. Evol. Biol., Univ. Connecticut, Storrs, CT.
- 16:45 412 Why do Humboldt Penguins feed on seashells? CARLOS ZAVALAGA, Dept. Biol. Sci. Univ. North Carolina at Wilmington, NC; and ROSANA PAREDES, Dept. Biol., Memorial Univ. Newfoundland, St. John's, NF.
- 17:00 413 Response by migrating raptors to RoboLure, a mechanical lure for attracting raptors. BUZZ HULL, RICHARD HORN, TOBIAS ROHMER, CLAIRE GALLAGHER and MARK McCAUSTLAND, Golden Gate Raptor Observ., San Francisco, CA.

Session 12J (Poydras). Breeding biology. Patty McGill, chair.

- 16:00 414 Hormonal correlates of reproduction and failure to reproduce in Guam Kingfishers.

SCIENTIFIC SESSIONS--SATURDAY

- GENE S. FOWLER, Dept. Biol., Pomona Coll., Claremont, CA; and PATTY MCGILL, Chicago Zool. Soc., Brookfield Zoo, Brookfield, IL.
- 16:15 415 Species richness and nesting success of Neotropical migrants in natural river corridors and anthropogenic woodlands in southeastern South Dakota. DALE GENTRY, Dept. Biol., South Dakota School Mines & Tech., Rapid City, SD, and DAVID SWANSON, Dept. Biol., Univ. South Dakota, Vermillion, SD.
- 16:30 416 Variation in nest attendance and predation rates on cup nesting passerines during the nesting cycle. T. LUKE GEORGE, Dept. Wildl., Humboldt State Univ., Arcata, CA, STEVE ZACK, Wildl. Conserv. Soc., Portland, OR, JINELLE HUTCHINS, Dept. Wildl., Humboldt State Univ., and JOE LIEBEZEIT, Wildl. Conserv. Soc., Arcata, CA.
- 16:45 417 Communal laying in the Great Tinamou, *Tinamus major*. PATRICIA L. R. BRENNAN, Dept. Neurobiol. & Behav., Cornell Univ., Ithaca, NY.
- 17:00 418 Effects of landscape composition on breeding bird community structure. COLIN E. STUDDS, Dept. Nat. Res. Sci., Univ. Rhode Island, Kingston, RI.
- 17:00 - 18:00 Cocktail Hour with cash bar (Le Salon)
- 18:00 - 23:00 Final Banquet with Cajun dance band, •Les Freres MichotŽ (Grand Ballroom =LaSalle ABC

STUDENT TRAVEL AWARD WINNERS

The NAOC Student Awards Committee offered 118 travel awards using funds provided by the AOU, COS, and RRF. The awardees are listed here:

- Kathryn E. H. Aitken**, University of British Columbia - Nest cavity availability and selection in central British Columbia
- Frank K. Ammer**, West Virginia University - Reproductive success and nest site selection of Grasshopper Sparrow populations in southern West Virginia
- Michael J. Anteau**, Louisiana State University - Nutrient reserves of Lesser Scaup during spring migration in the Mississippi flyway: A test of the spring condition hypothesis
- Steven M. Aquilani**, University of Mississippi - Current and pre-settlement location of closed-canopy forest habitat in Holly Springs National Forest: Implications for songbird conservation and fire management
- Daniel R. Ardia**, Cornell University - Experimental increases in reproductive effort affect primary and acquired immunity in Tree Swallows
- James W. Armacost**, Illinois State University - Birds of a palm-dominated Terra firme forest: The effect of habitat heterogeneity on regional avian diversity
- Anna R. Armitage**, University of California-Los Angeles - Spatial scale variability in wintering shorebird use of coastal wetland restoration sites
- Casey Armour**, University of North Dakota - Effects of management activities on upland nesting waterfowl and American Bitterns
- Andrea Alejandra Astie**, University of Buenos Aires - Impact of brood parasitism by Shiny Cowbirds on Creamy-bellied Thrush reproductive success
- Kelly A. Atchison**, Ohio State University - Influence of landscape matrix, microclimate, and local habitat characteristics on wintering birds in riparian forests
- Marja H. Bakermans**, Ohio State University - Acadian Flycatchers in midwestern riparian forests: Local- and landscape-level patterns
- Shelley Bayard de Volo**, Colorado State University - Recovering DNA from molted raptor feathers for use in genotyping and mark/recapture analysis: A work in progress
- Thomas J. Benson**, Iowa State University - Songbird responses to management of a Midwestern riparian floodplain
- Isabelle-Anne Bisson**, York University - How nearctic and intratropical migration shape dawn song and morphology in the New World
- David N. Bonter**, University of Vermont - Divergent migration directions in the Great Lakes Basin: the result of atmospheric circulation?
- Travis L. Booms**, Boise State University - Gyrfalcon diet in west Greenland during the nestling period
- Kathi L. Borgmann**, Ohio State University - Invasion of riparian forests by exotic shrubs: Impacts on nesting birds
- Marylene Boulet**, McMaster University - Where do Yellow Warblers go? An application of genetic markers as a tool to assess migratory connectivity among breeding and wintering grounds
- Deborah M. Buehler**, University of Toronto - Genetic diversity and population structure in Red Knots (*Calidris canutus*): An avian cheetah on a global scale
- Jason Bulluck**, Appalachian State University - The importance of southern Appalachian wetlands to breeding birds: The role of beaver
- Jay D. Carlisle**, University of South Dakota - Relating food availability, diet and foraging behavior of autumn passerine migrants in Idaho
- Sandra B. Cederbaum**, University of Georgia - Conservation tillage, providing source habitat for Horned Lark?
- Nicola L. Chong**, University of Toronto - Immunocompetence, parentage and MHC in the Red-billed Gull breeding colony, Kaikoura Peninsula, New Zealand
- Santiago Claramunt**, Museo Nacional de Historia Natural - Osteological perspectives on the phylogeny of recent and fossil furnarioids
- Sharon J. Coe**, University of California-Riverside - Water availability and reproduction in desert birds: The effects of water supplementation in the Black-throated Sparrow
- Emily B. Cohen**, Michigan State University - Ecology of post-fledging White-throated Robins (*Turdus assimilis*)

- Gabriel J. Colorado**, Universidad de Nal. Colombia - Diversity and occurrence of boreal migrant songbirds in the Darien Region, northwestern Colombia: A migration monitoring program initiative
- Kerri L. Cornell**, Villanova University - Hatching success and nestling sex ratio in Black-capped and Carolina chickadees: Do hybridizing chickadees in Pennsylvania follow Haldane's Rule?
- Nandadevi Cortes-Rodriguez**, Universidad Nacional Autónoma de México - Genetic variation in the Amethyst-throated Hummingbird (*Lampornis amethystinus*) complex using mitochondrial DNA
- Christine Dahlin**, Northern Arizona University - Audience effects on Pinyon Jay (*Gymnorhinus cyancephalus*) vocalizations
- Veronica Laura D'Amico**, Universidad Nacional de la Patagonia - Shorebirds feeding in mixed flocks in Fracasso Beach, Peninsula Valdes, Argentina
- Liliana M. Davalos**, Columbia University - Are conservation priority areas artifacts of sampling?
- Jill L. Deppe**, University of California-Riverside - Selection of stopover habitat by fall trans-gulf migrant landbirds in the Yucatan Peninsula
- Roarke E. Donnelly**, University of Washington - The relative importance of local vegetation and landscape pattern to Seattle's native bird communities
- Patrick J. Doran**, Dartmouth College - Spatiotemporal variability of breeding birds in an undisturbed northern hardwoods forest
- Stephanie M. Doucet**, Queen's University - Parasites, plumage and sexual selection in Satin Bowerbird
- Leo R. Douglas**, University of the West Indies - Impact of habitat degradation on birds breeding in the life zone of tropical dry forests of southern Jamaica
- Emily H. DuVal**, University of California-Berkeley - Delayed direct benefits as an adaptive advantage of cooperative courtship in the Lance-tailed Manakin
- Jason Duxbury**, University of Alberta - Solving the mystery of the unbanded Peregrine Falcons- a stable isotope exploration of Northern Canada
- Kevin Ellison**, University of Manitoba - Does offspring sex affect host use by sympatric cowbirds?
- Bradley C. Fedy**, York University - Territory defense in tropical birds: Are females as aggressive as males?
- Maria J. F. Fernandez Jauregui**, Pontificia Universidad Católica de Chile - Are insects an alternative energy source for hummingbirds? An experimental study in Green-backed Firecrowns (*Sephanoides sephaniodes*)
- Robert J. Fletcher, Jr.**, Iowa State University - The nature of multiple edge effects on bird distributions
- Rachel Fraser**, Queen's University - Extra-pair paternity in Golden-winged Warblers: Implications of mate choice for hybridization with Blue-winged Warblers
- Marcel A. Gahbauer**, McGill University - Migratory patterns of North American Peregrine Falcons: The origin factor
- Jennifer Gee**, Princeton University - Covey formation contributes to heterospecific pairing in hybridizing California and Gambel's quail (*Callipepla californica* and *C. gambelii*)
- Cecilia M. Gichuki**, Kenyatta University - Ecology of African Snipe (*Gallinago nigripennis*): An endemic bird of high altitude wetlands
- James J. Giocomo**, University of Tennessee - Managing grassland birds on military installations in the eastern United States
- Eben Goodale**, University of Massachusetts - Alarm calling in a Sri Lankan mixed-species flock system
- Scott Gremel**, University of Washington - The impacts of expanding Barred Owl populations on the Northern Spotted Owl in the Olympic National Park, Washington
- Nathalie J. Hamel**, University of Washington - Is there (by)catch? Spatio-temporal overlap of Common Murres and gillnet fishing in Washington
- Mark F. Haussmann**, Iowa State University - Teaching an old bird new tricks: does telomere length increase with age in long-lived birds?
- Kirsten R. Hazler**, University of Georgia - Is songbirds breeding territory selection influenced by nest predation and brood parasitism risk?
- Lynn S. Hodgens**, Arkansas State University - A bioenergetic model of trout predation by Great Blue Herons on the White River in Arkansas
- Scott P. Horton**, University of Washington - Trends in Marbled Murrelet inland activity in old growth forests: Olympic Experimental State Forest, Washington.
- Jaimie Jahncke**, University of California-Irvine - Trends in carbon flux to seabirds in the Peruvian upwelling
- Jeff A. Johnson**, University of Wisconsin-Milwaukee - Population genetics of Greater Prairie Chickens
- Jason C. Johnston**, University of Maine - Nest desertion in response to partial clutch loss: A manipulative study

- Alan H. Krakauer**, University of California-Berkeley - Parentage in Wild Turkey nests and its implications for kin selection
- Terry R. Krueger**, University of Miami - Parasite fauna and their effects on condition in a natural population of a tropical passerine
- Gary M. Langham**, Cornell University - Sex-biased territoriality, movement patterns, and helping behavior in Rufous-tailed Jacamars
- Christopher A. Lepczyk**, Michigan State University - Landowner influences on birds across rural-to-urban landscapes
- Keith P. Lewis**, Memorial University of Newfoundland - A preliminary test of the primary nest predator/nest predator diversity hypothesis
- John D. Lloyd**, University of Montana - Sibling competition and the duration of incubation
- Jennifer A. Long**, University of Maine - Changing patterns of corticosterone secretion play a functional role in migratory fattening
- Xavier Lopez-Mendellin**, Universidad Nacional Autónoma de México - Passeriformes trade in Mexico: A challenge for conservation
- Scott F. Lovell**, University of Calgary - Neighbor-stranger discrimination in a suboscine, the Alder Flycatcher
- Christina J. Maranto**, University of California-Irvine - The influence of prey choice and food quality on reproductive performance in an Arctic Tern population
- Damion E. Marx**, Texas A&M University - Habitat partitioning among wintering grassland passerines in a Texas mid-coastal prairie
- Jonathan D. Maul**, Arkansas State University - Cloacal microbial flora in breeding and wintering birds: Overall prevalence and relationship to condition index, fluctuating asymmetry, and habitat
- Hope R. McGaha**, University of Manitoba - Nestling competition of sympatric cowbirds: the role of gape and flange coloration
- Timothy D. Meehan**, Humboldt State University - Short-term effects of wildfire on the site selection and habitat quality of a disturbance-dependant flycatcher
- Daniel J. Mennill**, Queen's University - Black and white signals of sex and rank in Black-capped Chickadees (*Poecile atricapilla*)
- William W. Merkle**, University of Colorado - The effects of recreational trail-use on the nesting ecology and behavior of American Robins and Yellow Warblers
- Jennifer Nesbitt Styrsky**, University of Illinois-Urbana - Clutch size evolution in a neotropical bird: Experimental test of nest predation and individual optimization hypotheses
- Amanda C. Niehaus**, Simon Fraser University - Differential migratory timing of male and female Western Sandpipers on the southward migration
- Jacqueline K. Nooker**, University of Wisconsin-Milwaukee - Effects of female condition on reproductive success in Tree Swallows
- Kathleen D. O'Connor**, University of British Columbia - Extra-pair fertilization and effective population size in the Song Sparrow.
- Christopher Olson**, Iowa State University - Effects of incubation behavior on embryo metabolism
- Jason E. Osenkowski**, University of Rhode Island - Using long-term bird banding to estimate population trends of migrant landbirds
- Diana Cumings Outlaw**, University of Nevada, Las Vegas - The evolution of migration in the Motacillidae
- Noah T. Owen-Ashley**, University of Washington - Differential immune defense in monogamous and polygynandrous longspurs
- Maria G. Palacios**, University of Montana - Incubation period and immunocompetence: A comparative study
- Timothy H. Parker**, University of New Mexico - Dominant male Red Junglefowl (*Gallus gallus*) test the dominance status of other males
- Rebecca G. Peak**, University of Missouri - Factors affecting nest success of songbirds in riparian corridors
- Talima Pearson**, Northern Arizona University - Polygyny and extra-pair paternity in a population of Southwestern Willow Flycatchers
- Bonnie L. Peterson**, San Diego State University - Multi-scale analysis of nest predation risk of the Least Bell's Vireo
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Forsythe, D M	463	Gaunt, S L L	S033*	Gonzalez Alonso, H	S068*
Fowler, G S	414*	Gauthreaux, S A	228	Gonzalez, C	489*
Fowler, S C	215*	Gauthreaux, S A	338	Goodale, E	175*
Fox, T J	65	Gauthreaux, S A	729	Goodrich, L J	26
Francis, C M	598	Gauthreaux, S A, Jr	437*	Goodrich, L J	117*
Francis, C M	S083*	Gavashelishvili, A	449	Gordon, C E	207*
Francis C M	71	Gawlik, D E	154*	Gordon, C E	394
Franzreb, K	365	Gawlik, D E	170	Gorresen, M	529*
Fraser, G S	557*	Gee, J M	185*	Gorresen, M	528
Fraser, J	521	Gehlbach, F R	S128*	Gouse, P	735
Fraser, J D	589	Gehring, J L	132*	Graham, C H	388*
Fraser, R	109*	Gemmill, D	S139*	Graham, K A R	549*

Gram, W K	511*	Hart, P	S024	Hochachka, W M	348*
Granillo, K	S002	Hasselblad, K W	561*	Hochachka, W M	428
Graves, G R	31*	Hasselquist, D	89	Hodgens, L S	324*
Green, M C	21*	Hatch, D	536	Hodgman, T P	384
Gregor, A	S024	Hatch, K A	91	Hodum, P J	651*
Gremel, S A	507*	Hatch, S A	320	Hoffman, S W	26
Griffiths, C S	378*	Hatch, S A	S104*	Hohman, D S	609
Groom, J D	390*	Hauber, M E	250*	Hohman, D S	399*
Groom, M J	199	Hausmann, M F	203*	Holberton, R L	90
Groth, J G	S099	Havelka, T	484	Holberton, R L	280
Groth, J G	378	Haynes-Sutton, A M	S069*	Holberton, R L	282
Grubb, T C	390	Hazler, K R	475*	Holberton, R L	514*
Grzybowski, J	S093*	Heath, J A	130	Holberton, R L	519
Guenette, J-S	709*	Heath, J A	4	Holberton, R L	S059*
Guglielmo, C G	S057*	Hebert, C E	S080	Holbrook, K M	525*
Guglielmo, C G	121	Hebert, C E	169*	Hollister, A J	665
Guinard, T M	652	Hecht, S	570	Holmes, A L	194*
Guptill, S C	S081	Heglund, P J	564	Holmes, R T	159
Gust, J R	309	Heinrich, W R	386	Holmes, R T	336
Gutierrez, A	719	Hejl, S J	218	Holmes, R T	222
Gutierrez, R J	183	Hejl, S J	422	Holmes, R T	351
Gutierrez, R J	318	Helbig, A J	77	Holmes, R T	445
Gutierrez, R J	379	Heltzel, J M	715*	Holroyd, G L	206
Gutierrez, R J	550	Hemba, B M	435*	Holroyd, G L	702
Haas, E T	627*	Hengstenberg, D	688*	Holroyd, G L	710
Hackett, S J	52	Hennemen, C	S024	Holroyd, G L	S114
Haddrath, O	S100	Hepp, G R	632*	Holroyd, G L	25
Hagelin, J C	182*	Hereford, S G	625*	Holt, D	125
Hagen, E	651	Herkert, J R	397*	Holznel, W E	9
Haig, S M	385*	Hernandez, A	700	Honeycutt, R L	S129
Haines, V A	438	Hernandez, M A	497	Honey-Escandon, M	617
Hains, J J	721	Hernandez-Banos, B	617	Hoover, J P	S078
Hale, R	186	Herrera, A	700	Horn, A G	281
Haley, K L	644*	Hertel, F	36	Horn, M H	606*
Hall, K R	157*	Hertel, F	94*	Horn, R D	413
Hall-Beyer, M	597	Hertel, F	325	Horton, S P	75*
Halvorson, W L	408	Herzog, M P	87*	Horvath, J	465*
Hamel, N J	329*	Herzog, M P	382*	Houston, A	658
Hamel, P B	468*	Hestbeck, J	S003	Houston, C S	40*
Hamer, T E	595	Hill, G E	56	Howell, C A	251*
Hames, R S	354*	Hill, G E	405	Howlett, J	272
Hamilton, L	229	Hill, G E	532	Hudman, S P	742
Hamilton, S L	638	Hill, G E	S025	Huettmann, F	597
Hamilton, S L	639	Hill, G E	269	Hughes, C R	542*
Hamilton, S L	564*	Hill, G E	666	Hull, B	413*
Hamrick, J F	33	Hilton, B, Jr	122*	Hull, J M	311*
Handel, C M	285*	Hilton, B, Jr	161*	Hull, J M	739*
Hanowski, J	359	Hines, J E	336	Huner, J V	512*
Hansen, W R	S023	Hines, J E	590	Hunt, G L	153
Harper, R G	465	Hite, J M	103	Hunt, G L	296
Harrigan, R H	704	Hobbs, R J	408*	Hunt, G L	517
Harrigan, R J	314*	Hobbs, R J	298	Hunter, F M	557
Harris, J O	648*	Hobson, K A	169	Hunter, M J	519*
Harrold, E S	460*	Hobson, K A	340	Huntington, C E	203
Harshman, J	S102*	Hochachka, W M	299	Huot, J	510

Husak, M S	591*	Johnson, K	722	Kershner, E L	612
Huschle, G	S112*	Johnson, L S	229*	Kershner, E L	613
Huschle, G	S005	Johnson, M	85*	Kershner, E L	611
Huss, M J	S131	Johnson, M D	728*	Kesseli, R	712
Hussell, D	457	Johnson, M J	587*	Kessen, A E	80*
Hutchins, J	416	Johnson, N K	179*	Khan, A A	654
Huyvaert, K P	731*	Johnson, N K	277	Khan, A A	674
Hwang, U W	491	Johnson, T N	745	Kightlinger, L	558
Hylton, R A	130*	Johnston, J C	145*	Kilpatrick, A M	720*
Hyrenbach, D	S017	Jones, A W	375*	Kimball, C	S093
Hyrenbach, K D	153	Jones, I L	499	Kimball, R T	88*
Hyrenbach, K D	S135*	Jones, I L	182	Kimball, S A	546*
Inigo-El(as, E	327	Jones, I L	557	King, D I	S094*
Ichida, J M	164	Jones, J	190	King, D T	S015
Ichida, J M	S020	Jones, J	319*	King, R	740*
Ichida, J M	S045	Jones, J	445*	King, W J	S001*
Ifju, P G	434	Jones, M	359	Kirsch, E M	73*
Iko, W M	323	Jones, M	570	Kissling, M L	547*
Ingraldi, M F	431	Jones, S L	735	Klaassen, M	S060*
Ingraldi, M F	681	Jones, S L	S006	Klicka, J	313*
Ingraldi, M F	690*	Jordan, N E	228*	Klute, D S	S006
Ingraldi, M F	410	Juliano, D	S131	Knick, S T	237
Inigo-Elias, E E	S121*	Juola, F	691*	Knopf, F L	50
Irwin, R E	S040*	Kahn, Z A	439	Knutson, M G	65
Islam, K	642*	Kairu, E W	104	Kochert, M N	S105
Isvaran, K	186	Kaltenecker, G S	395*	Koenig, S	S070
Iverson, S A	454*	Kaltenecker, G S	546	Koenig, W D	464
Jackson, D A	380	Kappes, J J	S132*	Koford, R R	220
Jackson, J A	S074*	Kappes, P J	305*	Kohrt, C J	487
Jackson, J A	S126*	Karpanty, S M	605*	Komar, O	341*
Jacobsen, J K	701	Kasner, A C	562*	Komar, O	S046*
Jahn, A E	650*	Katzner, T E	531	Kondo, B	682*
Jahncke, J	153*	Katzner, T E	237*	Kopysh, N	272
Jahncke, J	296*	Katzner, T E	449*	Koronkiewicz, T J	350*
James, D A	328*	Keagy, J C	572	Korschgen, C	65
James, F C	S125	Keim, P	2	Kosciuch, K L	745*
Janes, S W	177*	Keim, P	531	Kousky, V E	S134*
Jarvi, S	S024	Keiser, J T	421*	Kozar, K	S024
Jensen, W E	249*	Kelchlin, E	699	Krakauer, A H	41*
Jeske, C	580	Kellner, C	202	Krannitz, P	693
Jeske, C	676	Kellner, C	215	Kratter, A W	101*
Jeske, C W	334	Kelly, J	92	Krementz, D G	554
Jeske, C W	458*	Kelly, J	587	Kress, W J	S039
Jeske, C W	401	Kelly, J	662	Kricher, J	S047*
Jimenez, A	623	Kendall, W	S003	Kristan, W B, III	402
Jimenez, A	S062	Kennedy, E D	703	Kristan, W B, III	608
Jimenez, L	489	Kennedy, P L,	1*	Kroodsma, D E	S028*
Jodice, P G R	151*	Kennedy, P L	209	Krueger, T R	623*
Jodice, P G R	594*	Kennedy, R S	375	Kruse, C D	521
John, C L	S070	Kennedy, E D	696*	Kuehn, M J	706
Johnson Randall, L A	580	Kepler, C B	160	Kuntz, W A	226*
Johnson, G	665*	Kershner, E	213	Kuntz, W A	505*
Johnson, J A	49*	Kershner, E L	214*	Kus, B E	5
Johnson, J E	655*	Kershner, E L	212	Kushlan, J A	S010*
Johnson, K P	704	Kershner, E L	523	Kuvlesky W P, Jr	322

Kuvlesky, Jr, W P	566	Lewis, S	560	Mancke, R G	111*
Kyle, G Z	646	Lewis, S B	559*	Manuwal, D A	393
Kyle, P D	646*	Lichstein, J W	172	Maranto, C J	718*
Lopex-Calleja, M V	232	Liebezeit, J	416	Marini, M	493
Lopez-Mendellin, X	327*	Liebner, D A	624	Marini, M	577
LaBranche, M S	348	Ligon, J D	307	Marini, M	673
LaFleur, N	152*	Liknes, E T	698*	Marini, M	664*
Lafon-Terrazas, A	168	Lincer, J L	518*	Maritz, A W A	436
Lafon-Terrazas, A	262	Lind, J	359	Marr, A	496
Lafon-Terrazas, A	369	Lindell, C A	578	Marra, P P	189
Lafon-Terrazas, A	68	Linder, E T	591	Marra, P P	396
Lancia, R A	147	Linder, E T	365	Marra, P P	S022*
Lanctot, R B	320*	Lindstrom, A	S060	Marra, P P	652
Lanctot, R B	39*	Linscombe, R G	371	Marsack, K Z	696
Langham, G M	103*	Llambias, P E	284	Marshall, M R	155*
Lank, D	597	Llambias, P E	678*	Marshall, M R	539*
Lank, D B	260	Llanes Sosa, A	S068	Martinez-Gomez, J E	198*
Lank, D B	335	Lloyd, J D	46*	Martell, M S	119
Lantz, S J	681	Logothetis, E A	606	Marti, C D	635*
LaPointe, D	720	Lohman, K	76	Martin, K	110
LaPointe, D	S024	Lohr, B	S030*	Martin, K	S123*
Larkin, R P	162*	Loiselle, B A	184	Martin, T E	45
Larkin, R P	675	Loiselle, B A	583*	Martin, T E	284
Larracuenta, A M	624	Loiselle, B A	525	Martin, T E	P1*
Laskowski, H	S003*	Lombardo, M P	S019*	Martinez del Rio, C	S034b
Laskowski, H	S004	Long, J	514	Martinez del Rio, C	S038
Lawrence, B T	164	Long, J	S059	Martinez-Gómez, J E	701*
Le Fer, D	521*	Long, J A	90*	Marx, D E	218*
Lease, D	S024	Lopez, R R	453	Marzluff, J	331
Lease, J K	720	Lopez-Calleja, M V	S036*	Marzluff, J	506
Leberg, P L	21	Lougheed, S C	693	Marzluff, J M	241*
Leberg, P L	371*	Lougheed, S C	174	Marzluff, J M	346
Leberg, P L	401	Loughlin, T	S007	Marzluff, J M	404
Lehman, R N	209*	Lovegrove, B G	S041b	Mason, A Z	606
Leichty, E R	23*	Lovejoy, T E	37	Mason, J	372
Lein, M R	438*	Lovell, S F	173*	Massey, C	598
Lemaitre, J	684*	Lowe, J D	354	Mathewson, H A	462*
Leonard, B P	371	Lowell, R	560	Matkovich, C	199
Leonard, B P	401*	Lowery, S F	681*	Matkovich, C	485
Leonard, M L	502	Lynam, A J	402	Matsumoto, T A	193
Leonard, M L	281*	Lynn, S	523*	Matsuoka, S M	285
Leonard, M L	637	Lyons, D E	44	Mattsson, B J	301*
Lepczyk, C A	330*	Lyons, M	106	Maul, J D	204*
Leppert, L	564	Mabb, K T	503	Maul, J D	430*
Leppert, L L	638*	Mabb, K T	504*	Maurer, M	372
Leppert, L L	639*	Mabee, T J	28*	Maute, K L	84
Leu, M	241	Mabey, S E	201*	May, C A	183*
Leu, M,	393*	Macias-Duarte, A	262*	May, C A	550
Levenstein, K M	227*	Macias-Duarte, A	369*	Mazourek, J C	334
Levey, D J	556*	Maddox, J D	370*	Mazzotti, F J	686
Levins, C J	556	Magness, D R	422*	McCaffery, B J	S002*
Levy, C	S064*	Mahmood, S	674	McCallum, D A	S031*
Lewis, K P	295*	Mahony, N	693	McCallum, D A	S026*
Lewis, K P	649*	Maldonado-Coelho, M	577*	McCarthy, T D	225
Lewis, M D	215	Malkinson, M	740	McCarthy, T D	588*

McCautland, M T	413	Mills, K L	S135	Mundy, P J	427
McClung, A	82	Millsap, B A	S108	Munkwitz, N	347*
McConnell, E K	S108*	Millsap, B A	644	Munkwitz, N M	526
McConnell, E K	644	Mindell, D P	S098*	Murn, C	744*
McCormick, J R	135*	Mix, K	322*	Murphy, M T	300*
McCracken, K G	515*	Miyaki, C Y	640	Murphy, T M	721
McCrary, M D	132	Mizrahi, D S	64*	Musumeche, M J	512
McDonald, D B	406*	Mobley, J A	584*	Myshrall, D H A	544
McDonald, M V	S077*	Mohan, H M	323*	Nequiz, V	S118
McFarland, K P	86	Moisen, G G	196	Nagy, L R	159*
McFarlane Tranquilla, L	596*	Molina, K C	426*	Naoki, K	188*
A		Mollenhauer, J	470*	Naoki, K	376
McGaha, H R	492*	Montejo Diaz, J E	26	Nastase, A J	419
McGill, P A	414	Monterrubio, T	224*	Navarrete-Gutierrez, D	645
McGowan, C P	106*	Montevocchi, W A	295	Navarro-Siguenza, A G	S027
McGowan, K J	451*	Montevocchi, W A	S138*	Neatherlin, E A	54*
McGrady, M J	449	Montevocchi, W A	291	Nekoba, W	541*
McGrath, L J	534*	Montgomerie, R	306	Nelson, D A	268
McGraw, K J	22*	Montgomerie, R	55	Nelson, S K	595*
McIntyre, C L	S107*	Montgomerie, R D	283	Nesbitt, S A	S084*
McKay, K J	486*	Montoya, A	68	Neudorf, D L	602
McKay, K J	487*	Montoya, A B	262	Neville, J A	352*
McKay, K J	629*	Montoya, A B	369	Nguyen, N	S020
McKay, K J	630*	Moore, F	470	Niabi-Westcott, L	125
McKechnie, A E	S041b*	Moore, F R	61	Nichols, J D	129
McLean, R G	S081*	Moore, F R	62	Nichols, J D	336
McMaster, D G	239*	Moore, F R	689	Nichols, J D	S082*
McWhorter, T J	S034a	Moore, F R	S076*	Nicolson, S W	S035
McWhorter, T J	S034b*	Moore, F R	59	Niehaus, A C	335*
McWilliams, S R	91	Moore, J E	480*	Niemela, S A	326*
McWilliams, S R	S058*	Moore, J E	481	Niemi, G	359*
Meehan, T D	32	Moore, L M C	479*	Niemi, G J	301
Meekins, D J	595	Moore, W S	S101*	Nishida, C A	298*
Melland, R R	542	Mori, S R	128	Niven, D K	69*
Mendelsohn, M B	545*	Moritz, B R	615*	Nol, E	457
Mendez-Gonzalez, C	68*	Morris, D L	353*	Nol, E	549
Mennill, D J	306*	Morris, S R	624*	Nolan, P M	269*
Merkle, W W	292*	Morris, S R	S044*	Nolan, P M	666
Mermoz, M E	490	Morris, S R	S075	Nooker, J K	476*
Metras, L	S075*	Morrison, J L	439*	Norling, W	458
Meyburg, B-U	S113*	Morrison, J L	708*	Norment, C J	444*
Meyburg, C	S113	Morrison, R I G	131	Norris, J L	202*
Meyer, K D	S115*	Morrissey, C A	263*	Nott, M P	240*
Meyer, K D	685	Morton, E S	272*	Nur, N	194
Meyers, J M	200*	Morton, E S	3356	Nur, N	316*
Meyers, J M	244	Morton, E S	24	Nur, N	467
Michi, J E	437	Morton, E S	660	Nur, N	536
Michot, T C	334*	Moulton, C E	257	Nur, N	586
Miles, D B	360*	Moulton, C E	553*	Nur, N	672
Millenbah, K F	621	Moyle, R G	274*	Nye, P E	S109*
Miller, E	S020	Muehlenbachs, K	25	Oaks, J L	654*
Miller, J K	627	Muehlenbachs, K	206	Oaks, J L	674
Milleson, M P	509*	Muehlenbachs, K	702	O'Conner, K	496*
Mills, J A	43	Mugica, L	S062	Okelo, R O	104
Mills, K L	S017*	Mulcahy, D M	S104	Okuyama, T	494

Olson, C R	495*	Pavlacky, D C, Jr	392*	Powers, D R	S037*
Olson, S L	450	Pavlova, A	78*	Prasad, S	210*
Olson, S L	735	Payne, R B	555	Prather, J W	217
Omland, K E	466	Payne, R B	312*	Pratt, T K	529
Omland, K E	682	Peak, R G	143*	Pratt, T K	528
Oosthuysen, E	436	Pearlstine, E V	686*	Preest, M R	535
Opdycke, J	214	Pearlstine, L G	434*	Preston, K L	569*
O'Reilly, K M	203	Pearson, T	2*	Price, E W	197*
Oring, L W	385	Pechacek, P	738*	Price, J	S137*
Oring, L W	85	Pedraza-Ruiz, R	524*	Price, M V	402
Ornelas, J F	489	Peer, B D	706*	Probst, J R	160
Ortega, C P	265*	Pekarik, C	484	Proudfoot, G A	S129*
Ortega, C P	297	Pepperberg, I M	P2*	Pruett-Jones, S	469
Ortega, J C	265	Percival, H F	434	Pugh, L P	634*
Ortega, J C	297*	Perkins, D E	90	Purcell, K	471
Ortiz-Pulido, R	S122*	Peterjohn, B G	S031	Purcell, K L	128*
Osenkowski, J E	477*	Peters, J L	466*	Purcell, K L	733*
O'Shea, B J	341	Petersburg, M L	550*	Pyle, P	S136
Otis, D L	228	Petersen, P C	630	Quader, S	186*
Outlaw, D C	342*	Peterson, A T	S027*	Quartucci, G M	486
Oviedo Prieto, R	S068	Peterson, A, T	483	Quinn, J S	3356
Owen, J C	62*	Peterson, B L	5*	Quinn, T W	50
Owen, J C	435	Petrie, S A	S111*	Radley, P M	36*
Owen-Ashley, N T	89*	Phillips-Singh, D	S056	Raffaele, H A	S072*
Oyama, K	48	Pickens, C	517*	Rafiq, T L	652*
Oyama, K	645	Pierce, B J	S058	Rall, R P	697*
Oyler-McCance, S J	50*	Pierson, B J	309	Ralph, C J	193*
Ozard, J W	665	Pillai, S R	532	Ralph, C P	193
Perez Mena, E	S068	Pimm, S L	37	Rangel, J L	361
Pajot, L M	285	Pinshow, B	S034b	Rasmussen, L E L	182
Palacios, M G	45*	Plissner, J	214*	Ratcliffe, L M	306
Paradzick, C E	225	Plissner, J	213	Rathburn, M K	283*
Pardieck, K L	S031	Plissner, J	212	Ratti, J T	205
Paredes, R	412	Plumpton, D L	730	Reboreda, J C	678
Parish, C N	656	Podlesak, D W	91*	Reboreda, J C	600
Park, H C	491	Podolsky, A L	8*	Reddy, S	35
Parker, C D	648	Podolsky, A L	192*	Redman, T S	513*
Parker, P G	51	Pogue, D W	443*	Ree, R H	S103
Parker, P G	88	Poirier, N E	548*	Reichart, L M	419*
Parker, P G	289	Polish, N	316	Reiser, M H	722
Parker, P G	227	Pollock, B	199	Reitsma, L R	688
Parker, P G	731	Pollock, B	485	Reitsma, R	396*
Parker, T H	307*	Pollock, K H	129	Renne, I J	580
Parr, M	S054*	Pomara, L	536	Renner, M	557
Parr, M J	707	Pomeroy, A C	420*	Renton, K	30*
Parrish, J K	S018*	Pompei, V K	452*	Renton, K	679
Parsons, K C	S014*	Pontius, J S	223	Restani, M	400*
Pashley, D N	S055*	Porneluzi, P A	511	Reynolds, M	619*
Pasinelli, G	141*	Porter, A	699	Reynolds, R T	601
Pasinelli, G	142	Porter, W F	403	Ribas, C C	640*
Paton, P W C	456	Porter, W F	246	Ribon, R	493*
Paton, P W C	477	Porzeczanski, A L	12*	Ribon, R	585*
Paton, P W C	544*	Porzeczanski, A L	694*	Ribon, R	664
Paton, T A	S100	Powell, L A	631*	Rich, T D	66
Patten, M A	398	Powell, R A	663*	Richart, C H	699

Rimmer, C C	86	Rotenberg, J A	610*	Schondube, J E	S034a*
Rintoul, D A	424	Rotenberry, J	471	Schondube, J E	S038*
Rintoul, D A	726*	Rotenberry, J T	402*	Schreiber, E A	S140*
Ripper, D	S131*	Rothstein, S I	706	Schueck, L	125
Rising, J D	380*	Rowher, S A	78	Schuetz, J G	187*
Rivers, J W	223*	Rubega, M A	93	Schultz, R J, Jr	196*
Rivers, J W	726	Rubega, M A	411*	Schwabl, H	564
Robbins, C S	732*	Ruelas Inzunza, E	26*	Schweitzer, S H	264
Roberts, P K	189*	Runge, M	S003	Schwertner, T W	462
Roberts, S D	532	Rush, S A	455*	Scott, T A	S026
Roberts, S R	S025*	Rusk, B L	242	Scott, T A	S029*
Roberts, S R	666	Russel, G J	37	Scroggins, C D	511
Robertson, R J	109	Ruth, J M	394*	Seabury, R	230
Robertson, R J	319	Ruthven III, D C	566	Seaman, D A	120*
Robertson, R J	641	Ryan, T P	730*	Seamans, M E	318*
Robertson, R J	190	Ryder, J L	261	Seamans, M S	550
Robinson, D A, Jr	451	Ryder, T B	583	Seavy, N E	494*
Robinson, S K	42	Ryker, L	177	Sedinger, J S	87
Robinson, S K	238	Ryu, S H	491*	Sefc, K M	555*
Robinson, S K	S096	Saab, V A	136	Sefc, K M	717
Roby, D D	151	Saab, V A	S127*	Semones, J D	279*
Roby, D D	44	Saavedra, A	650	Senecal, J	451
Rocklage, A M	395	Saavedra, A M	616*	Servat, G P	149*
Rodewald, A D	256	Saenz, D	135	Shackelford, C E	33*
Rodewald, A D	259	Salafsky, S R	236*	Shawkey, M D	532*
Rodewald, A D	473	Salinas-Melgoza, A	30	Sheets, H D	624
Rodewald, P G	60*	Salinas-Melgoza, A	679*	Sheldon, F H	10*
Rodgers, J A	S110	Saliva, J	S069	Sheldon, F H	515
Rodriguez Batista, D	S068	Samuel, M	S024	Shen, S-F	83
Rodriguez Navarro, A	31	Sanchez, D	51	Sherry, D A	234*
Rodriguez, A	S062	Sanchez, B	700*	Sherry, D A	419
Rodriguez, D	719*	Sanchez, B	719	Sherry, T W	72
Rodriguez, J V	623	Sanchez, L	S093	Sherry, T W	221
Rodriguez, L	700	Sanchez, T	51	Sherry, T W	575
Rodriguez, R	S106	Sanchez, T	679	Shire, G	707
Roe, A S	620*	Sanchez Oria, B	S068	Shook, J E	321*
Rogers, A S	656*	Sandberg, R	470	Shriner, S A	129
Rogers, A S	410*	Sandberg, R	S059	Shriner, S A	172
Rohila, T M	404*	Sandercock, B K	424	Shriver, W G	384*
Rohmer, T R	413	Sandercock, B K	680*	Siefferman, L	405*
Rohwer, S	156*	Sanderson, M J	S103	Siefferman, L E	532
Rohwer, S	50	Sanzenbacher, P M	385	Siegel, R B	S136
Rohwer, S	276	Sarasola, J H	77	Siepielski, A M	362*
Romanek, C S	31	Sauer, J R	129	Sieving, K E	509
Roome, D	575*	Sauer, J R	S004	Sieving, K E	84*
Root, T L	68*	Savard, J P	510	Sigel, B J	72*
Rosenberg, K	S121	Savidge, J A	209	Sikarskie, J G	620
Rosenberg, K V	565*	Scharf, L	557	Sikes, P J	745
Rosenberg, K V	66	Scheiber, I B R	18*	Sillett, T S	336*
Rosenberg, K V	354	Scheiman, D M	481*	Sillett, T S	319
Rosenberg, K V	734*	Schiegg, K	142*	Silvy, N J	462
Rosenblum, L	S029	Schiff, N M	468	Simmons, T R	106
Ross, A R	665	Schlossberg, S R	34*	Simons, T R	129
Rossano, L M	178	Schlossberg, S R	S078	Simons, T R	8
Rotenberg, J A	235*	Schmidt, S L	589*	Simons, T R	172*

Simons, T R	192	Stadler, S	198	Sustaita, D	36*
Sims, C G	280*	Stai, S M	19*	Svigelj, W S	490*
Sisk, T D	636	Staicer, C A	270*	Swanson, D	415
Sklyarenko, S L	449	Steadman, D W	101	Swanson, D L	698
Slack, D	S129	Stechler, K M	627	Swanson, H M	217*
Slack, R D	234	Stechler, K M	628*	Swem, T	309
Slack, R D	562	Steeby, S	597*	Swenson, G V	487
Slack, R D	663	Steen, C R	621*	Swenson, G V	629
Slater, G L	685*	Steenhof, K	S105*	Swihart, R K	481
Slikas, B	10	Steffler, A	S108	Swystun, H A	590*
Slikas, B	450*	Stehelin, T E	604*	Sydeman, W J	S017
Smallwood, J	372	Steinkamp, M	S013*	Sykes, P W	160
Smith III, C G	468	Stendell, R C	323	Szczys, P	712*
Smith, A L	95*	Stenhouse, I J	291*	Tafanelli, R	262
Smith, A T	237	Stephens, R M	1	Tafanelli, R	369
Smith, C E	99*	Stettenheim, P	723*	Taft, O W	385
Smith, C E	100	Stewart, R L M	598*	Takekawa, J Y	165
Smith, D R	606	Stiles, F G	S041*	Takekawa, J Y	29
Smith, G E J	484	St-Louis, V	216	Talbot, S	320
Smith, J P	27*	Stoehr, A M	22	Talbot, S L	285
Smith, M D	448*	Stoleson, S H	92	Talbot, S L	309*
Smith, N	125	Stoleson, S H	662	Tallman, D	558*
Smith, R B	32*	Stouffer, P C	37	Talus, C E	140
Smith, R J	435	Stouffer, P C	374	Tarvin, K A	469
Smith, R J	689	Stouffer, P C	659	Tautin, J	S082
Smith, R J	59*	Stouffer, P C	38*	Tautin, J	713
Smith, S M	343*	Stouffer, P C	167	Tautin, J	714
Smith, T E	502*	Stralberg, D	467	Taylor, J	S003
Smits, J	488	Stralberg, D	536	Taylor, J D	S004
Smits, J E G	181*	Stralberg, D	586*	Taylor, J P	S008*
Snow, S	685	Strausberger, B M	252*	Taylor, TB	139*
Snyder, N F R	244	Stravers, J W	487	Teel, P D	S129
Socola, J	592	Stravers, J W	629	Temeles, E J	S039*
Sogge, M K	350	Strickler, K M	76*	Temple, J G	628
Soha, J A	S033	Strong, A M	86*	Temple, S A	242
Solorzano, S	48*	Strong, C	38	ten Have, J	15
Solorzano, S	645*	Strong, C M	367*	Terrill, S B	730
Somershoe, S G	741*	Strong, C M	659*	Thatcher, B S	554*
Somershoe, S G	742*	Struve, M S	51	Theimer, T C	2
Sonsthagen, S A	309	Stucker, J H	687*	Thompson, B C	271
Sonsthagen, S A	S106*	Studds, C E	418*	Thompson, F R, III	143
Sorenson, L G	S066*	Stutchbury, B J M	17	Thompson, F R, III	S092
Sorenson, M D	314	Stutchbury, B J M	303	Thompson, F R, III	S096
Sorenson, M D	555	Stutchbury, B J M	356*	Thompson, J L	147*
Sorenson, M D	717	Stutchbury, B J M	24	Thompson, W L	S127
Sorenson, M D	704*	Stutchbury, B J M	174	Thompson, F R, III	251
Sorenson, M	S098	Stutchbury, B J M	660	Thorpe, P A	S019
Sorenson, M D	312	Styring, A R	366*	Thusius, K J	6
Sowa, N A	696	Styring, A R	S130*	Titus, K	309
Spautz, H	467*	Styrsky, J D	123*	Titus, K	559
Spautz, H	586	Styrsky, J N	42*	Titus, K	560*
Speigel, C	S024	Sucerquia, P A	344	Toepfer, J E	S005
Spellman, G	278*	Sullivan, B L	612*	Toepfer, J E	S112
Spiering, P	533	Sullivan, B L	613*	Toranzo, G A	290
Stacey, P B	737*	Sullivan, B L	611	Torres, O	S062

Tossas, A G	S065*	Wainstein, M D	651	Whitaker, S J	657
Town, B	S109	Waite, T A	116	White, C M	S106
Tozer, D C	133*	Waite, T A	268	White, D W	696
Trefry, H E	710	Walker, B	S032*	White, J D	425*
Trocinska, A	163	Walker, B L	134*	White, T	S070
Trocki, C L	456*	Walker, H I	662*	White, T H, Jr	243*
Trust, K A	285	Wallace, K	S063*	Whiteman, N K	289*
Tryjanowski, P	126	Wallace, K	S071	Whitfield, M J	2
Turner, E M	624	Walsh-McGehee, M	S069	Whiting, R M, Jr	349
Turner, J M	212	Walters, E L	S125*	Whiting, R M, Jr	461
Turner, J M	213*	Walters, J R	139	Whittaker, K A	6*
Turner, J M	211	Walters, J R	141	Whittingham, L A	6
Tuttle, E M	469	Walters, J R	142	Whittingham, L A	10
Tweed, E	S024	Walters, J R	S091*	Whittingham, L A	476
Unfried, T M	114*	Walters, N F	648	Whittingham, L A	548
Valdez Gomez, H E	710*	Wang, L-P	146	Wiedenmann, R N	370
Vallee, A	261	Ward, D H	382	Wightman, C	736*
Valligny, C D	478*	Ward, M P	34	Wilcox, K L	S111
Van Bael, S A	238*	Wardle, C	S071*	Wilcox, R L	431*
van Blaricom, D	729	Warnock, N	214	Wilcox, R L	690
van Riper, C, III	534	Warnock, N	29	Wilde, S B	721
van Riper, C, III	350	Warnock, N	165*	Wiley, F E	441*
van Riper, C, III	S023*	Warzybok, P	S135	Wiley, J W	S070*
van Riper, S G	S023	Wassenaar, L I	169	Wiley, J W	700
VanderWerf, E A	552*	Watson, R	654	Wiley, R H	500*
VandeWerf, E A	677*	Watson, R T	674	Wilke, A L	S014
Varland, D E	S131	Watt, D J	S042*	Wilkins, R N	422
Varland, D E	166*	Watts, B D	671	Will, T C	65*
Vasterling, R P	205*	Wayne, R K	607	Will, T C	361*
Vega-Rivera, J H	30	Weakland, C A	191	Williams, G E	3*
Veit, A C	499*	Webb, W C	608	Williams, G E	527*
Veit, M L	319	Webster, M S	336	Williams, J C	557
Veit, R R	S135	Webster, M S	469*	Williams, T D	121
Veit, R R	S138	Webster, M S	351	Williamson, G B	377
Vekasy, M S	27	Weckstein, J D	81*	Williamson, K E	164*
Vermillion, W	371	Wee, B	658	Willis, C N	634
Vermillion, W G	334	Wege, D	S012	Willson Hillman, S K	308*
Vickery, P D	384	Wege, D	S069	Wilson, A K	595
Vigallon, S	506*	Weidensaul, S	655	Wilson, C M	282*
Villard, M-A	684	Wells, J V	69	Wilson, P R	316
Villard, M-A	709	Wells, J W	734	Wilson, R R	573
Virani, M Z	654	Wells, K M	551*	Wilson, S	458
Virani, M A	427	Wells, J V	66*	Wilson, T E	116*
Viverette, C B	117	Welsh, D	216	Wimmers, L E	229
Vleck, C M	203	Wemmer, L C	687	Winegrad, G W	S050*
Vleck, C M	495	Wenger, K K	S020	Winegrad, G W	S052*
Vleck, C M	683*	Weseloh, C	199	Winget, R N	358
Vleck, D	495	Weseloh, C	484	Winget, R N	541
Voelker, G	278	Weseloh, C	485	Wingfield, J C	89
Voelker, G	313	Weseloh, D V	S011	Winker, K	63
Voelker, G	342	Weseloh, D V C	S080*	Winkler, D W	10
Voelker, G	50*	Westneat, D F	419	Winkler, D W	203
Vogel, P	221	Weston, T J	357*	Winn, B	687
Vogel, P	391	Whalen, D M	671*	Winn, B	264
Vuilleumier, F	11	Wheelwright, N T	230*	Winter, L	482*

Winter, L	S051*	Woodward, H D	568*	Yen, P P-Y	596
Wires, L	S016*	Woodworth, B L	529	Yoon, J E	622
Wires, L R	208*	Woodworth, B L	528	Yosef, R	126*
Withey, J C	346*	Woodworth, B L	S024*	Yosef, R	163*
Witt, C C	273*	Woolfenden, B E	24*	Yosef, R	740
Wolf, B O	32	Woolfenden, B E	660*	Young, B E	72
Wolf, B O	571*	Woolfenden, G E	383	Young, B E	440*
Wong, J M	620	Woolfenden, G E	478	Young, D B	505
Wood, D R	113*	Woolfenden, G E	S089	Yuan, H-W	83
Wood, J	586	Wragg, G M	582	Yuan, H-W	146
Wood, L A	155	Wrege, P H	20	Yuri, T	98*
Wood, L A	539	Wright, E A	200	Zack, S	416
Wood, P B	3	Wright, T F	S030	Zack, S	S124
Wood, P B	191*	Wright, V	676	Zaiglin, R E	566
Wood, P B	501	Wunderle, J M	244*	Zamore, M	S070
Wood, P B	527	Wunderle, J M, Jr	S067	Zavalaga, C	412*
Wood, P B	643	Yanega, G M	93*	Zavalaga, C	537
Wood, P B	581	Yanega, G M	411	Zimpfer, N L	171
Woodrey, M S	554	Yard, H	633*	Zink, R M	78
Woodrey, M S	S009*	Yates, M	432	Zink, R M	97*
Woodrey, M S	268*	Yaukey, P H	121*	Zink, R M	375
Woods, C P	386*	Ydenberg, R C	335	Zink, R M	80
Woodward, A A	225*	Yeiser, J L	150	Zuniga, T	S012
Woodward, H D	92*	Yen, P P W	593*		

VENDORS AND EXHIBITORS

All Vendors and some exhibitors are located in Pelican Rooms or Acadian Room; most societies have exhibits in Le Salon. The number after the room location refers to the booth or table number.

ABSEARCH, INC., Moscow, ID (Acadian - 27) „Natural resource online and CD-ROM databases for professionals

AMERICAN BIRD CONSERVANCY, Washington, DC (Third Floor Lobby, near Conference Registration/ Information Desk) „ABC is a national, non-profit 501(C)3 organization dedicated to the conservation of wild birds in the Americas

AMERICAN ORNITHOLOGISTS• UNION (Le Salon - 37) „Founded in 1883, the American Ornithologists' Union is the oldest and largest organization in the New World devoted to the scientific study of birds. Although the AOU primarily is a professional organization, its membership of about 4,000 includes many amateurs dedicated to the advancement of ornithological science. One of the sponsoring societies of the conference.

ASSOCIATION OF FIELD ORNITHOLOGISTS (Le Salon - 39) „The Association of Field Ornithologists (AFO) is a society of professional and amateur ornithologists dedicated to the scientific study and dissemination of information about birds in their natural habitats. Founded in 1922 as the New England Bird Banding Association, and shortly thereafter becoming the Northeastern Bird-Banding Association, AFO continues to be especially active in bird-banding and development of field techniques. Additionally, AFO encourages participation of amateurs in research, and emphasizes conservation biology of birds.

BARATARIA-TERREBONNE NATIONAL ESTUARY PROGRAM, Thibodaux, LA (Pelican - 24)„Our products are all educational in nature, including posters, documents and videos. All of our products are given out free of charge.

BIRDERS• EXCHANGE, OF THE AMERICAN BIRDING ASSOCIATION, Colorado Springs, CO (Pelican - 19) „Birders' Exchange, Sharing Tools...Saving Birds. The American Birding Associations' Birders' Exchange program collects new and used equipment and distributes it to our colleagues working to conserve birds and their habitats in Latin America and the Caribbean.

BLACKWELL PUBLISHING, Malden, MA (Pelican - 23) „Blackwell is a leading international publisher in the area of science and medicine.

BRUNTON, Riverton, WY (Acadian - 31) „Binoculars designed with birders in mind; also compasses, GPS receivers, camp stoves, portable power devices and hand-held weather instruments

BUTEO BOOKS, Shipman, VA (Pelican - 7) „Ornithology books: new, used, rare

CAMBRIDGE UNIVERSITY PRESS, New York, NY (Pelican - 4) „Books and journals

CONVENTION HOSPITALITY SERVICES, New Orleans, LA (Third Floor Lobby, near Conference Registration/Information Desk) „Convention Hospitality Services offers complimentary restaurant reservation/tourist information/tour services.

COOPER ORNITHOLOGICAL SOCIETY (Le Salon - 36) „The Cooper Ornithological Society was organized in 1893 and incorporated in 1934. The name of the Society commemorates an early California naturalist, Dr. James G. Cooper.

Today the Society numbers over 3000 professional and amateur ornithologists from around the world. The purpose of the organization is to advance our knowledge of birds and their habitat. The COS publishes *The Condor* and *Studies in Avian Biology*. For further details, see www.cooper.org. One of the sponsoring societies of Conference. Information on membership, publications and activities will be available.

CORNELL UNIVERSITY PRESS, Ithaca, NY (Pelican - 9) „see advertisement.

EAGLE OPTICS, Madison, WI (Pelican - 11 & 12) „Specializing in binoculars and spotting scopes from all major manufacturers

ECO LODGE, Arenal Volcano area, Costa Rica (Pelican - 21) „Eco Lodge is an eco-tourism hotel with excellent service. It's private reserve of 319 hectares of rainforest offers hiking canopy access, bird watching, and visits to nearby Maleku Indians. Costa Rica is renowned worldwide for its excellent birding (870 species) and protected areas, which encompass a variety of ecological zones from tropical dry and wet forest to cloud forest.

ENGINEERING DESIGN, Belmont, MA (Acadian - 30) „Signal software program for bioacoustic analysis

FUHRMAN DIVERSIFIED, INC., Seabrook, TX (Pelican - 10) „Closed circuit video for all field and lab applications; also animal handling & capture equipment

GULF COAST BIRD OBSERVATORY, Lake Jackson, TX (Pelican - 13)„ Inspiring solutions to ecological challenges in and around the Gulf of Mexico. A sponsoring society of the Conference, GCBO will offer information on membership, publications and conservation activities.

HOLOHIL SYSTEMS, LTD., Carp, Ontario, Canada (Acadian - 28)„ Manufacturer of a wide range of custom radio transmitters for wildlife research

LEUPOLD & Stevens, Inc., Beaverton, OR (Acadian - 26)„ a family-owned manufacturer of outdoor optics since 1907. Importers of Wind River Wilderness Optics, a fine line of binoculars and spotting scopes, and manufacturer of Golden Ring binoculars and spotting scopes made in Beaverton, Oregon.

LYNX EDICIONS, Barcelona, Spain (Pelican - 4) „Ornithological and natural history titles. The publishers of the *Handbook of the Birds of the World*.

NATIONAL FISH & WILDLIFE FOUNDATION, Silverthorne, CO (Pelican - 20) „

International Migratory Bird Day is a celebration of birds and their migrations.

NORTH AMERICAN BIRD BANDING, Laurel, MD; & Hull, Quebec, Canada (Pelican - 17)„Bird banding and banding permits in North America.

NORTH AMERICAN WATERBIRD PLAN (Pelican - 22) „The distribution, diversity, and abundance of populations and habitats (breeding, migratory, and nonbreeding) of waterbirds are sustained or restored throughout the lands and waters of North America, Central America, and the Caribbean.

OXFORD UNIVERSITY PRESS, New York, NY (Pelican - 8) „Among the lead titles in Oxford's ornithology list are Ernest Mayr and Jared Diamond, *The Birds of Northern Melanesia*; Geoffrey Hill, *A Red Bird in a Brown Bag: The Function and Evolution of Colorful Plumage in the House Finch*; and Peter Bennett and Ian Owens, *Evolutionary Ecology of Birds*.

PRINCETON UNIVERSITY PRESS, Princeton, NJ (Pelican - 3) „Academic Publisher of bird and natural history titles„see advertisement.

RAPTOR RESEARCH FOUNDATION (Le Salon - 35) „A professional society concerned

- with the study and conservation of birds of prey, and one of the sponsoring societies of the conference
- RIVER FORKS RESEARCH, Prince Albert, Saskatchewan, Canada (Pelican - 15) „We develop and build recording systems designed around the cvx microphone technology.
- SECCIÓN MEXICANA DEL CONSEJO INTERNACIONAL PARA LA PRESERVACIÓN DE LAS AVES (CIPAMEX) (Le Salon - 32) „A Mexican, non-profit organization devoted to the study and conservation of wild birds and their habitats in Mexico. Information on membership, publications and activities will be available.
- SOCIETY FOR THE CONSERVATION AND STUDY OF CARIBBEAN BIRDS (Le Salon - 33)„A Caribbean non-profit organization promoting the scientific study and conservation of Caribbean birds and their habitats. Provides a link among ornithologists and those elsewhere, a written forum for researchers in the region through the publication of *El Pitirre*, and data and technical assistance to governments and conservation groups in the Caribbean.
- SOCIETY OF CANADIAN ORNITHOLOGISTS/SOCIÉTÉ DES ORNITHOLOGISTES DE CANADA (Le Salon - 34) „The SCO/SOC provides a Canadian vehicle for the promotion of productive, educational, and enjoyable ways for anyone interested in birds to get involved. One of the sponsoring societies of the conference.
- SOUTHEAST LOUISIANA REFUGES, U.S. FISH AND WILDLIFE SERVICE , Slidell, LA (Pelican - 18) „A complex of seven National Wildlife Refuges administered from a central office: Atchafalaya, Bayou Sauvage, Big Branch Marsh, Bogue Chitto, Breton, Delta, and Shell Keys. Part of a national network of lands and waters administered for the conservation, management, & restoration of fish, wildlife, and plant resources and their habitats for the benefit of present and future generations of Americans. NWR System is celebrating its Centennial year in 2003.
- SWAROVSKI OPTIK N.A ., Cranston, RI (Acadian - 29) „Premium quality binoculars and telescopes for the best look possible: with the eyes of a hawk
- UNIVERSITY OF CHICAGO PRESS, Chicago, IL (Pelican - 2)„see advertisement.
- UNIVERSITY OF TEXAS PRESS, Austin, TX (Pelican - 5) „Publisher of books pertaining to ornithology, natural history, environment and conservation
- WALTER ANDERSON MUSEUM OF ART , Ocean Springs, MS (Pelican - 16) „New reprint of Walter Anderson's •Birds•, books, and other bird-related products from our museum store
- WESTERN FIELD ORNITHOLOGISTS (Pelican - 14) „A non-profit ornithological society that serves Western NA: will sell t-shirts, books and other publications.
- WILSON ORNITHOLOGICAL SOCIETY (Le Salon - 38) „The Wilson Ornithological Society was founded in 1888 and is a worldwide organization of people who share a curiosity about birds. The Wilson Society publishes the quarterly *Wilson Bulletin*, holds annual meetings, maintains a library of ornithological literature at The University of Michigan, and awards a number of small grants.

YALE UNIVERSITY PRESS, New Haven, CT (Pelican - 1), Yale University Press will exhibit its new and backlist titles in ornithology and the life and environmental sciences. Features include the second edition of Restoring North America's Birds, Wrens, Dippers, and Thrashers, Lichens of North America, and Lessons from Amazonia. See Advertisement.