COS • AOU • SCO
2010
SAN DIEGO
MEETING PROGRAM
WELCOME TO SAN DIEGO!

On behalf of the many people who have been working for over a year and a half to put this meeting together, we cordially welcome members and guests of the Cooper Ornithological Society, the American Ornithologists’ Union, and the Society of Canadian Ornithologists to the COS/AOU/SCO 2010 Joint Meeting. The 2010 meeting in San Diego marks the 80th annual meeting of the Cooper Society, the 128th stated meeting of the American Ornithologists’ Union, and the 28th annual meeting of the Society of Canadian Ornithologists/Société des Ornithologistes du Canada.

Our goal in planning this meeting has been to provide an intellectually stimulating atmosphere for the exchange of scientific ideas concerning avian research and conservation in a relaxing environment. We hope that you will have the opportunity to take advantage of our local culture and cuisine, and also to experience the wide biological diversity in our county that stretches from the coast through the mountains to the desert and beyond. Please don’t hesitate to contact one of us if any questions arise. And be sure to check the meeting web site daily for program updates, such as cancelled papers: www.birdmeetings.org/cosaousco2010/. Thanks for coming, and enjoy your time in San Diego!

—COS/AOU/SCO 2010 Local Committee
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CONFERENCE ORGANIZERS

LOCAL COMMITTEE CHAIRS
Barbara Kus, USGS Western Ecological Research Center
Kevin Burns, San Diego State University

LOCAL COMMITTEE
Eric Kershner, US Fish and Wildlife Service
Philip Unitt, Department of Birds and Mammals, San Diego Natural History Museum

SCIENTIFIC PROGRAM COMMITTEE
John Rotenberry (Chair), University of California - Riverside
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Amber Oneal, BonTerra Consulting
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Cindy Shannon, Mt. San Antonio College

JOINT COS/AOU/SCO STUDENT AWARDS COMMITTEE
Rolf Koford (Chair), USGS Iowa Cooperative Fish and Wildlife Research Unit
Susan Skagen, USGS Fort Collins Science Center
Rebecca Kimball, University of Florida
Ken Otter, University of Northern British Columbia

JOINT COS/AOU/SCO STUDENT AFFAIRS COMMITTEE
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Nicholas Block, Brian Smith, Holly Middleton
Petey Hosner, Melanie Colón, Samantha Franks
Stephanie Wright, W. Andrew Cox, Andrea Norris
Lynnette Dornak, Markus Mika, Kristina Cockle
Wendy Lenhart, Anna Drake
Daniel Barton, David Hodkinson

ALL-OUT OSTRICH UPROAR
Branda Cook, University of San Diego
John Sauer, USGS Patuxent Wildlife Research Center

AMERICAN ORNITHOLOGISTS’ UNION REPRESENTATIVE
Kevin Burns, San Diego State University

SOCIETY OF CANADIAN ORNITHOLOGISTS REPRESENTATIVE
Erica Nol, Trent University

LOGO DESIGN
David Stump

WEB-SITE MANAGEMENT
Chris Schneider, The Schneider Group

CONFERENCE MANAGEMENT COMPANY
The Schneider Group, Waco, TX
MEETING SPONSORS

We are deeply grateful to the following sponsors, whose generosity enhanced the meeting in ways that we could not have attained otherwise.

PLATINUM LEVEL SPONSORS
Contributions of ≥ $2500
- Birds&Beans LLC
- San Diego Natural History Musuem

GOLD LEVEL SPONSORS
Contributions of $1000-2500
- Canopy Tower
- Cornell University Press
- DoD Partners In Flight
- Holohil Systems, Ltd.
- Kowa Optimed, Inc.
- Lotek Wireless / Biotract Telemetry
- Recon Environmental, Inc.
- SWCA-Environmental
- Wildlife Computers
- Yale University Press

SILVER LEVEL SPONSORS
Contributions of < $1000
- Culinary Concepts
- Csiro Publishing
- San Diego Zoo Wild Animal Park
- Sea World San Diego
- Wiley Blackwell

SPECIAL THANKS
Special thanks to the San Diego Zoo for providing conference attendees with discounted admission passes to the world famous San Diego Zoo.

REGISTRATION AND GENERAL INFORMATION

Updated meeting information will be posted DAILY at www.birdmeetings.org/cosaousco2010

REGISTRATION/INFORMATION DESK
Located in the Golden Ballroom foyer at the Town & Country hotel.

MESSAGE/JOB BOARD
Will be maintained next to the Registration Desk throughout the meeting.

PARKING
Meeting participants will be afforded a discounted parking fee of $8 per day at the hotel.

INTERNET, PHONE, FAX, AND COPYING
Various limited Internet access points are located throughout the hotel’s common areas at no charge. In order to obtain this access, use COS as the password when logging on. Internet access will be available for participants in meeting rooms during the conference at no charge as well. Guest room access is available at a cost of $9.95 per day.

Printer, fax, and copier services are available in the hotel business office located in the Convention Center next to the South Atlas foyer.

AUTOMATED TELLERS
There are two ATMs on the property; one between the Convention Center and the Royal Palm Ballroom, and one between the hotel lobby and the Lexington Room.

FITNESS AND SPA FACILITIES
The fitness center at the Bella Tosca Day Spa, Salon and Fitness Center is open to hotel guests. Located on the grounds of the Town & Country, Bella Tosca offers a full range of spa treatments, salon services, and state-of-the-art fitness facilities. Day use of fitness and spa facilities costs $10-$25.

COFFEE BREAKS
Coffee breaks for conference attendees will be held daily (Monday-Thursday) at 9:30-10:00 a.m., and 3:30-4:00. All breaks will be held in the Exhibit Hall. We are proud to be serving 100%-organic shade-grown coffee generously donated to the conference by Birds & Beans®.

CHILD CARE
The following three companies provide licensed, bonded, insured, and CPR/First Aid trained nannies/babysitters that will come to the hotel for a minimum of four hours. Rates vary and arrangements should be made directly with these child care providers. Although last-minute reservations can be accommodated, it is recommended that reservations be made in advance with the provider.

Around Town Hotel Childcare
http://www.aroundtownchildcare.com
10491 Pine Grove Street
San Diego, CA 92105
Ph: 619-283-2120; Fx: 800-798-6768
director@aroundtownchildcare.com
Marion’s Childcare
http://www.hotelchildcare.com
PO. Box 1737
Spring Valley, CA 91978
Toll Free: 888-891-5029, In San Diego: 619-303-4379
amy@hotelchildcare.com

Destination Sitters LLC
http://www.destinationsitters.com
La Jolla, CA 92038
Toll Free: 888-748-5439
858-336-1999
info@destinationsitters.com

SPECIAL NEEDS
The Town & Country has ADA sleeping rooms available, and the conference grounds and session rooms are wheelchair-accessible (please consult map included in program for locations of wheelchair accessible entrances, restrooms, and routes). For other needs, please visit the conference registration desk.

MEDICAL SERVICES AND FACILITIES
Dial “0” to notify the hotel operator of an emergency situation and security will be dispatched immediately. If it is a life threatening situation, call 911.

Scripps Mercy Hospital
4077 5th Ave.
San Diego, CA 92103
619-294-8111

From hotel, take Hotel Circle Drive west to I8 east to 163 south, exit Washington St. west, right on 5th Ave.; hospital is on immediate right. Travel time 3 minutes (2 miles).

Mission Valley Medical Clinic
5333 Mission Center Rd. #100
San Diego, CA 92108
619-295-3355
Hours: Mon-Fri 8-5:30; Sat/Sun closed

From hotel, take Hotel Circle Drive west to I8 east, exit 163 north, take I8 east exit toward El Centro, exit on Mission Center Rd toward Auto Circle, left on Mission Center Rd; clinic is on the right behind Carl’s Jr. Travel time 3 minutes (2 miles).

Urgent Care & More (ER Physicians)
3434 Midway Dr.
San Diego, CA 92110
619-225-6200
Hours: 7 days a week 8 a.m. – midnight

From hotel, take Hotel Circle Drive west to I8 west, exit 209 south toward Rosecrans St., right on Midway. Facility is on right. Travel time 5 minutes (3.3 miles).

NEAREST PHARMACY
Target
1288 Camino del Rio North
San Diego, CA 92108
619-542-0025

From hotel, take Fashion Valley Drive north, right on Friar’s Road to Mission Center Road; you will see Target on your right. Or take the Trolley two stops to the Mission Valley Center station. Travel time 6 minutes, (3.4 miles).

EATING ESTABLISHMENTS
Within walking distance of the Town & Country, The Fashion Valley Mall has an attractive open-air food court on its upper level with a good selection of casual restaurants and snack shops.

Order via wait staff
• 59th & Lex in Bloomingdale’s
• Bing Crosby’s Restaurant & Piano Bar
• Boudin Sourdough Bakery & Café
• California Pizza Kitchen
• The Cheesecake Factory
• Neiman Marcus Zodiac Restaurant
• P.F. Chang’s China Bistro
• Uno Chicago Grill

Order at the counter
• Boudin Sourdough Bakery & Café
• Café Socrates
• D’Lush
• La Cucina di Pizzerie
• McDonald’s
• Muscle Beach Lemonade
• Nordstrom Café
• Panda Express
• Rubio’s Baja Grill
• Sarku Japan
• Starbucks
• Stone Oven Gourmet Sandwiches
• Wëtzel’s Pretzels

GETTING AROUND SAN DIEGO
The San Diego Trolley stops on property (Fashion Valley station) and offers easy travel around San Diego, stopping at Qualcomm Stadium, San Diego State University, Old Town, Seaport Village, Horton Plaza, the downtown Gaslamp District, the Convention
Center and the U.S./Mexico border. You may purchase an all-day pass on the trolley for $5, which is also valid on city buses. For longer treks, Avis Rental Car is conveniently located on the Town & Country grounds.

Public transportation between the San Diego airport and the Town & Country: For an easy, inexpensive, and green alternative to renting a car, use the trolley and connecting airport bus to travel to and from the hotel. The 992 Airporter bus makes five stops at the airport; one at the commuter terminal, two at Terminal 1, and two at Terminal 2. To pick up the bus, go to the curb outside the baggage claim areas and look for the signs for the 992 Airporter. Purchase a $5 fare that will allow you to transfer to the trolley. Take the 992 downtown to the America Plaza trolley station, and take the Blue Line trolley heading for Old Town (5 stops). At the Old Town station, all passengers deboard the Blue Line and board a Green Line trolley (you will have no choice; this is the end of the Blue Line route). Continue on the Green Line east two more stops to the Fashion Valley station. The Town & Country is immediately south of the tracks; use the stairway and ramps on the north side of the tracks to access the hotel. The 992 and trolleys run every 15 minutes, and the entire trip should take about 20-30 minutes.

**ATTACKIONS & SPECIAL EVENTS**

San Diego, with its idyllic climate, rich history, and renowned biological and cultural diversity, has a wide array of outdoor and indoor activities for everyone, a small selection of which we’ve described below. You might be interested in taking advantage of some of these events or venues in your free time. Additional tourist information can be found at the San Diego Convention and Visitors Bureau website (http://www.sandiego.org/nav/Visitors).

**BALBOA PARK**  
http://www.balboapark.org

Located approximately 1.5 miles south of the Town & Country, accessible by bus (Route 120). Grounds are open 24 hours a day and the Visitor’s Center is open 9:30 a.m.-4:30 p.m. daily. Balboa Park is the nation’s largest urban cultural park. It hosts 15 museums (many of which participate in San Diego Museum Month, see below), performing arts venues, gardens, and the world famous San Diego Zoo.

**CABRILLO NATIONAL MONUMENT**  
http://www.nps.gov/cabr/indexc.htm

Located at the southern tip of Point Loma, an approximately 10-mile drive (also accessible by trolley and bus with transfers), open 9:00 a.m.-5:00 p.m. Offers spectacular views of San Diego Bay, a self-guided tour of the historic Point Loma lighthouse, and the possibility of seeing whales in migration.

**GASLAMP DISTRICT**  
http://www.gaslamp.org

The place to go in downtown San Diego for dining, shopping, and nightlife. Accessible by trolley.

**LA JOLLA COVE**

Located approximately 9 miles northwest of the Town & Country (also accessible by trolley and bus with transfers). La Jolla Cove offers a diverse array of activities including seabird-watching, the Birch Aquarium at Scripps, seals in the Children’s Pool, kayaking, and shopping.

**OLD TOWN SAN DIEGO**  
http://www.oldtownsandiegoguide.com

Located approximately 2 miles west of the Town & Country, accessible by trolley. This State, City, and County park is a great place to see historic mission architecture and exhibits. There are also opportunities to shop and dine.

**SAN DIEGO MUSEUM MONTH**  
http://www.sandiego.org/event/Visitors/55

During February, you can pick up a free Museum Month Pass at Macy’s (at Fashion Valley Shopping Center, north of the Town & Country) to receive half-off admission at 39 San Diego county museums. Some of the participating museums include Birch Aquarium at Scripps, Maritime Museum of San Diego (including the Star of India) and USS Midway Museum, Quail Botanical Gardens, and many of the museums at Balboa Park.

**SAN DIEGO ZOO**  
http://www.sandiegozoo.org

Located in Balboa Park, open 9:00 a.m.-4:00 p.m. daily. See Yun Zi, the 6-month-old panda cub and many other animal exhibits.

**SEA WORLD**  
http://www.seaworld.com/sandiego/

Located approximately 3.3 miles west of the Town & Country, accessible by trolley and bus with transfers. Open 10:00 a.m.-5:00 p.m. weekdays, 10:00 a.m.-7:30 p.m. Sat. and Sun. See Shamu, marine wildlife exhibits, rides, and a variety of shows.
## MEETING AT A GLANCE

<table>
<thead>
<tr>
<th>TIME/DAY</th>
<th>FEBRUARY 6 SATURDAY</th>
<th>FEBRUARY 7 SUNDAY</th>
<th>FEBRUARY 8 MONDAY</th>
<th>FEBRUARY 9 TUESDAY</th>
<th>FEBRUARY 10 WEDNESDAY</th>
<th>FEBRUARY 11 THURSDAY</th>
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<tbody>
<tr>
<td>MORNING</td>
<td>OSNA Pres. Meeting</td>
<td>Field trips</td>
<td>Bird Walk</td>
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<td></td>
<td>AOU Council Meeting</td>
<td>Plenary: Derrickson</td>
<td>Plenary: Dial</td>
<td>Plenary: Martin</td>
<td>Plenary: YPA finalists</td>
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<td></td>
<td>COS Board Meeting</td>
<td>AOU Awards</td>
<td>COS Awards</td>
<td>SCO Awards</td>
<td>Keynote: Duckworth</td>
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<td></td>
<td>SCO Council Meeting</td>
<td>Concurrent Sessions</td>
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<td>Workshops</td>
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<td>LUNCH</td>
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<td>Student-Mentor Lunch</td>
<td>SCO Business Meeting</td>
<td>AOU Editorial Board Meeting</td>
<td>Get to Know Your Society</td>
<td>OSNA Meeting</td>
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<td>AFTERNOON</td>
<td>OSNA Pres. Meeting</td>
<td>AOU Council Meeting</td>
<td>Concurrent Sessions</td>
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<tr>
<td>EVENING</td>
<td>AOU Council Meeting</td>
<td>AOU Fellows Meeting</td>
<td>COS Business Meeting</td>
<td>All-out Ostrich Race</td>
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<td></td>
<td>COS Board Meeting</td>
<td>Opening Reception</td>
<td>Museum Night</td>
<td>Posters</td>
<td>Student-Prof. Social</td>
<td>Reception</td>
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<td>Student Quiz Bowl</td>
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<td>Banquet</td>
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# All-Day Event & Function Schedule

## Monday-Thursday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>7:00 a.m.-5:30 p.m.</td>
<td>Registration</td>
<td>Golden Ballroom foyer</td>
</tr>
<tr>
<td>7:00 a.m.-5:00 p.m.</td>
<td>Presentation Room Open</td>
<td>Pacific Salon 7</td>
</tr>
<tr>
<td>8:00 a.m.-5:00 p.m.</td>
<td>Posters/Exhibits</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>8:00 a.m.-5:00 p.m.</td>
<td>Silent Auction (open Monday-Wednesday)</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>8:00 a.m.-5:00 p.m.</td>
<td>Photo Contest</td>
<td>Exhibit Hall</td>
</tr>
</tbody>
</table>

## Saturday, 6 February

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 a.m.-5:00 p.m.</td>
<td>OSNA Presidents’ Meeting: “Strengthening Ornithology”</td>
<td>Le Sommet</td>
</tr>
<tr>
<td>6:00 p.m.-9:30 p.m.</td>
<td>AOU Council Meeting</td>
<td>Windsor Rose</td>
</tr>
<tr>
<td>7:00 p.m.-10:00 p.m.</td>
<td>COS Board Meeting</td>
<td>Le Chanticleer</td>
</tr>
</tbody>
</table>

## Sunday, 7 February

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:00 a.m.-7:00 p.m.</td>
<td>Field Trip: Salton Sea</td>
<td>Meet at Convention Drive</td>
</tr>
<tr>
<td>6:00 a.m.-12:00 p.m.</td>
<td>Field Trip: San Diego Coast</td>
<td>Meet at front lobby</td>
</tr>
<tr>
<td>8:00 a.m.-3:30 p.m.</td>
<td>AOU Council Meeting</td>
<td>Windsor Rose</td>
</tr>
<tr>
<td>8:00 a.m.-3:30 p.m.</td>
<td>COS Board Meeting</td>
<td>Le Chanticleer</td>
</tr>
<tr>
<td>11:00 a.m.-3:30 p.m.</td>
<td>SCO Council Meeting</td>
<td>Fairfield</td>
</tr>
<tr>
<td>12:00 p.m.-8:00 p.m.</td>
<td>Registration</td>
<td>Golden Ballroom foyer</td>
</tr>
<tr>
<td>12:00 p.m.-5:00 p.m.</td>
<td>Exhibitors/Poster Set-up</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>12:00 p.m.-5:00 p.m.</td>
<td>Silent Auction Set-up</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>9:00 a.m.-12:00 p.m.</td>
<td>Workshop: Involvement with Non-Academic Institutions</td>
<td>Brittany</td>
</tr>
<tr>
<td>9:00 a.m.-12:00 p.m.</td>
<td>Workshop: Neotropical Bird Identification</td>
<td>Ascot</td>
</tr>
<tr>
<td>9:00 a.m.-12:00 p.m.</td>
<td>Workshop: Avian First Aid (1st session)</td>
<td>Garden Salon Two</td>
</tr>
<tr>
<td>9:00 a.m.-5:00 p.m.</td>
<td>Workshop: NORAC</td>
<td>Eaton</td>
</tr>
<tr>
<td>1:00 p.m.-5:00 p.m.</td>
<td>Workshop: Avian First Aid (2nd session)</td>
<td>Garden Salon Two</td>
</tr>
<tr>
<td>1:00 p.m.-5:00 p.m.</td>
<td>Workshop: Avian Interactions with Powerlines</td>
<td>Brittany</td>
</tr>
<tr>
<td>1:00 p.m.-5:00 p.m.</td>
<td>Workshop: Phylogenetic Methods</td>
<td>Garden Salon One</td>
</tr>
<tr>
<td>1:00 p.m.-8:00 p.m.</td>
<td>Presentation Room Open</td>
<td>Pacific Salon 7</td>
</tr>
<tr>
<td>3:45 p.m.-5:30 p.m.</td>
<td>AOU Fellows Meeting</td>
<td>Hampton</td>
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<tr>
<td>5:30 p.m.-7:30 p.m.</td>
<td>AOU Fellows Dinner</td>
<td>Windsor</td>
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<tr>
<td>7:00 p.m.-10:00 p.m.</td>
<td>Opening Reception</td>
<td>Poolside or Golden Ballroom, depending on weather</td>
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</table>
# MONDAY, 8 FEBRUARY SCHEDULE

<table>
<thead>
<tr>
<th>TIME</th>
<th>EVENT</th>
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<tbody>
<tr>
<td>6:00 a.m.-7:45 a.m.</td>
<td>Early Morning Bird Walk</td>
<td>Meet in Front Lobby</td>
</tr>
</tbody>
</table>
| 8:00 a.m.-9:30 a.m. | Welcome & Announcements  
AOU Awards  
Plenary: Scott Derrickson | Golden Ballroom        |
| 9:30 a.m.-10:00 a.m. | Coffee Break                                                         | Exhibit Hall          |
| 10:00 a.m.-12:30 p.m. | Concurrent Sessions:  
• S09: Ornithological Applications  
• S10: Women in Ornithology: History, Current Roles, Future Opportunities and the Role of Societies in Professional Development  
• G02: Sexual Selection  
• G14: Population Ecology of Species of Concern  
• G15: Community Ecology  
• G33: Effects of Exotics on Species’ Biology  
• G35: Effects of Wind Farms and Energy Development  
• G37: Landscape Scale | Various                 |
| 12:30 p.m.-2:00 p.m. | Lunch                                                                | On Your Own           |
| 12:30 p.m.-2:00 p.m. | Student-Mentor Lunch                                                 | Meet at Registration  |
| 2:00 p.m.-3:30 p.m. | Concurrent Sessions:  
• S03: Population and Community Responses of Cavity-Nesting Birds to Natural and Anthropogenic Disturbance  
• S04: Assessments of Habitat Selection and Quality: Perspectives and Future Directions  
• G01: Behavior  
• G07: Mating Systems and Sex Ratios  
• G16: Tropical Systems  
• G20: Climate Impacts - Mechanisms  
• G21: Climate Change and Weather  
• G25: Life History - Clutch Size  
• G34: Effects of Fire and Timber Harvest  
• G48: Parasites and Metapopulations | Various                 |
| 3:30 p.m.-4:00 p.m. | Coffee Break                                                         | Exhibit Hall          |
| 4:00 p.m.-5:00 p.m. | Concurrent Sessions Continue                                         | Various               |
| 5:00 p.m.-6:00 p.m. | AOU Business Meeting                                                 | Golden Ballroom       |
| 6:30 p.m.-10:00 p.m. | Museum Night                                                         | San Diego Natural History Museum |
## TUESDAY, 9 FEBRUARY SCHEDULE

<table>
<thead>
<tr>
<th>TIME</th>
<th>EVENT</th>
<th>ROOM</th>
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<tbody>
<tr>
<td>6:00 a.m.-7:45 a.m.</td>
<td>Early Morning Bird Walk</td>
<td>Meet in Front Lobby</td>
</tr>
<tr>
<td>8:00 a.m.-9:30 a.m.</td>
<td>Welcome &amp; Announcements&lt;br&gt;COS Awards&lt;br&gt;Plenary: Ken Dial</td>
<td>Golden Ballroom</td>
</tr>
<tr>
<td>9:30 a.m.-10:00 a.m.</td>
<td>Coffee Break</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>10:00 a.m.-12:30 p.m.</td>
<td>Concurrent Sessions:&lt;br&gt;• S02: Tri-national Bird Conservation: Shared Strategies for a Shared North American Avifauna&lt;br&gt;• S12: Avian Immunity: Resilience in the Face of Emerging Zoonoses and Climate Change&lt;br&gt;• G01: Behavior (Continued)&lt;br&gt;• G06: Breeding Biology and Parental Care&lt;br&gt;• G10: Movements and Dispersal&lt;br&gt;• G18: Molecular Ecology&lt;br&gt;• G32: Urban Effects and Survival&lt;br&gt;• G36: Genetic Structure&lt;br&gt;• G46: Nesting Habitat</td>
<td>Various</td>
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<tr>
<td>12:30 p.m.-2:00 p.m.</td>
<td>Lunch</td>
<td>On Your Own</td>
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<tr>
<td>12:30 p.m.-2:00 p.m.</td>
<td>AOU Editorial Board Meeting</td>
<td>Windsor Rose</td>
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<tr>
<td>12:30 p.m.-2:00 p.m.</td>
<td>COS Reviewing Editors Meeting</td>
<td>Clarendon</td>
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<tr>
<td>12:30 p.m.-2:00 p.m.</td>
<td>SCO Business Meeting</td>
<td>Pacific Salon 1</td>
</tr>
<tr>
<td>2:00 p.m.-3:30 p.m.</td>
<td>Concurrent Sessions:&lt;br&gt;• S01: Saving Hawaii’s Birds&lt;br&gt;• S05: Birds and Ecosystem Services&lt;br&gt;• G06: Breeding Biology and Parental Care (Continued)&lt;br&gt;• G09: Migration and Stopover Biology&lt;br&gt;• G17: Urban Effects&lt;br&gt;• G26: Evolution&lt;br&gt;• G41: Life History - Incubation&lt;br&gt;• G44: Speciation&lt;br&gt;• G47: Noise and Anthropogenic Disturbance</td>
<td>Various</td>
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<tr>
<td>3:30 p.m.-4:00 p.m.</td>
<td>Coffee Break</td>
<td>Exhibit Hall</td>
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<tr>
<td>4:00 p.m.-5:00 p.m.</td>
<td>Concurrent Sessions Continue</td>
<td>Various</td>
</tr>
<tr>
<td>5:30 p.m.-6:30 p.m.</td>
<td>COS Business Meeting</td>
<td>Golden Ballroom</td>
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<tr>
<td>7:00 p.m.-10:00 p.m.</td>
<td>Poster Reception</td>
<td>Exhibit Hall</td>
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## WEDNESDAY, 10 FEBRUARY SCHEDULE

<table>
<thead>
<tr>
<th>TIME</th>
<th>EVENT</th>
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<tbody>
<tr>
<td>6:00 a.m.-7:45 a.m.</td>
<td>Early Morning Bird Walk</td>
<td>Meet in Front Lobby</td>
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<tr>
<td>7:00 a.m.-7:45 a.m.</td>
<td>Young Professional Award Breakfast</td>
<td>Sunset</td>
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<tr>
<td>8:00 a.m.-9:30 a.m.</td>
<td>Welcome &amp; Announcements</td>
<td>Golden Ballroom</td>
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<td></td>
<td>SCO Awards</td>
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<td></td>
<td>Plenary: Kathy Martin</td>
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<tr>
<td>9:30 a.m.-10:00 a.m.</td>
<td>Coffee Break</td>
<td>Exhibit Hall</td>
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<tr>
<td>10:00 a.m.-12:30 p.m.</td>
<td>Concurrent Sessions:</td>
<td>Various</td>
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<tr>
<td></td>
<td>• S08: Marine Birds: Dynamic Responses to Inter-annual to Interdecadal Climate Variability &amp; Change in the Gulf of California &amp; Southern California Current</td>
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<td></td>
<td>• S11: Yellow-billed Cuckoos: Biology and Conservation in the Western United States</td>
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<td></td>
<td>• G08: Brood Parasitism</td>
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<td></td>
<td>• G19: Conservation and Population Biology</td>
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<td></td>
<td>• G28: Phylogenetics and Phylogeography</td>
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<td>• G31: Ornithology</td>
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<td></td>
<td>• G43: Song Structure and Signalling</td>
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<td></td>
<td>• G50: Plumage Patterns and Variation</td>
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<tr>
<td>12:30 p.m.-2:00 p.m.</td>
<td>Lunch</td>
<td>On Your Own</td>
</tr>
<tr>
<td>1:15 p.m.-2:00 p.m.</td>
<td>Get to Know Your Society Meeting</td>
<td>Sunset</td>
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<tr>
<td>1:30 p.m.-2:30 p.m.</td>
<td>Yellow-billed Cuckoo Recovery Team Meeting</td>
<td>Windsor Rose</td>
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<tr>
<td>2:00 p.m.-3:30 p.m.</td>
<td>Concurrent Sessions:</td>
<td>Various</td>
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<tr>
<td></td>
<td>• G03: Song and Vocalizations</td>
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<td></td>
<td>• G05: Breeding Biology and Behavior</td>
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<td></td>
<td>• G12: Habitat Relationships</td>
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<td></td>
<td>• G13: Population Ecology</td>
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<td>• G23: Population Biology - Survival</td>
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<td>• G24: Population Biology</td>
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<td></td>
<td>• G27: Systematics and Phylogeny</td>
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<td>• G29: Pleistocene - Then and Later</td>
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<td>• G45: Molt, Migration, and Stopover</td>
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<tr>
<td>3:30 p.m.-4:00 p.m.</td>
<td>Coffee Break</td>
<td>Exhibit Hall</td>
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<tr>
<td>4:00 p.m.-5:00 p.m.</td>
<td>Concurrent Sessions Continue</td>
<td>Various</td>
</tr>
<tr>
<td>4:00 p.m.-5:30 p.m.</td>
<td>All-out Ostrich Uproar 5K Run</td>
<td>Meet at Registration</td>
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<tr>
<td>4:30 p.m.-5:30 p.m.</td>
<td>Student/Professional Social</td>
<td>Golden Ballroom</td>
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<tr>
<td>8:00 p.m.-10:00 p.m.</td>
<td>Student Quiz Bowl</td>
<td>Golden Ballroom</td>
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## THURSDAY, 11 FEBRUARY SCHEDULE

<table>
<thead>
<tr>
<th>TIME</th>
<th>EVENT</th>
<th>ROOM</th>
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<tbody>
<tr>
<td>6:00 a.m.-7:45 a.m.</td>
<td>Early Morning Bird Walk</td>
<td>Meet in Front Lobby</td>
</tr>
<tr>
<td>8:00 a.m.-9:45 a.m.</td>
<td>Welcome &amp; Announcements</td>
<td>Golden Ballroom</td>
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<tr>
<td></td>
<td>Plenary: COS Young Professional Award Finalists</td>
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<td></td>
<td>Keynote: Renée Duckworth</td>
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<tr>
<td>9:45 a.m.-10:00 a.m.</td>
<td>Coffee Break</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>10:00 a.m.-12:30 p.m.</td>
<td>Concurrent Sessions:</td>
<td>Various</td>
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<tr>
<td></td>
<td>• S06: Advances in Shorebird Conservation</td>
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<td>• S07: Rusty Blackbird: Range-Wide Perspective on a Short-Distance Migrant in Decline</td>
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<td>• G22: Disease, Parasites, Immunity</td>
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<td></td>
<td>• G30: Biogeography</td>
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<td>• G38: Grasslands and Grazing</td>
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<td>• G40: Hormones and Immunology</td>
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<td>• G49: Physiology and Energetics</td>
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<tr>
<td>12:30 p.m.-1:30 p.m.</td>
<td>OSNA Meeting</td>
<td>Pacific Salon 6</td>
</tr>
<tr>
<td>12:30 p.m.-2:00 p.m.</td>
<td>Lunch</td>
<td>On Your Own</td>
</tr>
<tr>
<td>2:00 p.m.-3:30 p.m.</td>
<td>Concurrent Sessions:</td>
<td>Various</td>
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<tr>
<td></td>
<td>• G04: Acoustic Monitoring and Detectability</td>
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<td></td>
<td>• G11: Captive Breeding, Release, Monitoring, and Conservation Planning</td>
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<td>• G12: Habitat Relationships</td>
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<td></td>
<td>• G39: Habitat Relationships of Species of Concern</td>
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<td></td>
<td>• G42: Models, Methods, Landscapes</td>
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<tr>
<td>3:30 p.m.-4:00 p.m.</td>
<td>Coffee Break</td>
<td>Exhibit Hall</td>
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<tr>
<td>4:00 p.m.-5:00 p.m.</td>
<td>Concurrent Sessions Continue</td>
<td>Various</td>
</tr>
<tr>
<td>6:00 p.m.-7:00 p.m.</td>
<td>Reception</td>
<td>Golden Ballroom Foyer/Poolside</td>
</tr>
<tr>
<td>7:00 p.m.-10:00 p.m.</td>
<td>Closing Banquet</td>
<td>Golden Ballroom</td>
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STUDENT ACTIVITIES

The combined student affairs committees of the three societies have planned several events to promote students getting to know each other, and to provide opportunities for students and professionals to interact in relaxed settings. In addition, they have organized events to raise funds supporting student travel and activities at future meetings.

STUDENT TRAVEL Awardees

The joint student awards committee comprised of members from all three societies reviewed 156 applications for student travel awards. Congratulations to the following award recipients:

Michael Andersen (U. Kansas)
Dusty Arsnoe (Michigan State U.)
Sarah Baxter (Arkansas State U.)
Trina Bayard (U. Connecticut)
Timothy Billo (U. Washington)
Pauline Bloom (U. Saskatchewan)
Kathi Borgmann (U. Arizona)
Matthew Brooks (Louisian State U.)
Margaret Campbell (Carleton U.)
Brent Campos (Humboldt State U.)
Scott Chiavacci (Arkansas State U.)
Ioana Chiver (York U.)
Mason Cline (U. Vermont)
Kristina Cockle (U. British Columbia)
Emily Cohen (U. Southern Mississippi)
W. Andrew Cox (U. Missouri)
Karie Decker (U. Arizona)
Kristen Dybala (UC Davis)
Tana Ellis (Oregon State U.)
Quinn Emmering (Texas Tech U.)
Philina English (Queen’s U.)
Pete Epanchin (UC Berkeley)
Michelle Feole (U. Florida)
Clinton Francis (U. Colorado)
Samantha Franks (Simon Fraser U.)
Michelle Gilbert (U. Wyoming)
Samuel Glickman (City College New York)
Thibault Grava (U. Northern British Columbia)
Angélique Grava (U. Northern British Columbia)
Mélanie Guigueno (U. Manitoba)
Trevor Haynes (U. Alaska)
John Hindley (U. Lethbridge)
Torre Hovick (Iowa State U.)
Anya Illes (U. Washington)
Jill Jankowski (U. Florida)
Sophie Jaquier (West Virginia U.)
Mark Jasper (San Francisco State U.)
Stephanie Jenkins (Oregon State U.)
Vitek Jirinec (Humboldt State U.)
Erik Johnson (Louisiana State U.)
Laura Kearns (Ohio State U.)
Janice Kelly (Texas Tech U.)
Marisa King (Washington State U.)
Joseph LaManna (Humboldt State U.)
Joshua LaPergola (Villanova U.)
Quresh Latif (UC Riverside)
Christine Lattin (Tufts U.)
Michael Lelevier (U. New Mexico)
Cecilia Leumas (Louisiana State U.)
Russell Ligon (Arizona State U.)
Haw-Chuan Lim (Louisiana State U.)
Mark Liu (Auburn U.)
Teresa Lorenz (Utah State U.)
Scott Loss (U. Manitoba)
Jason Luscier (U. Arkansas)
J. Dylan Maddox (U. Illinois)
James Maley (Louisiana State U.)
Heather Mathewson (U. Nevada)
Nicole Michel (Tulane U.)
Robert Miller (Boise State U.)
Jonathan Moore (Virginia Tech U.)
Aleya Nelson (U. Alaska)
Joseph Niederhauser (U. Central Florida)
Andrea Norris (U. British Columbia)
Erin O’Brien (U. Northern British Columbia)
Karan Odom (U. Windsor)
Jessica Oswald (U. Florida)
Dana Owen (Boise State U.)
Anna Perry (College of Atlantic)
Paulo Pulgarin-Restrepo (U. Lethbridge)
Bryan Reiley (Arkansas State U.)
Sonya Richmond (U. Toronto)
Alicia Rodrian (Clemson U.)
Alexandra Rose (U. Wyoming)
Lindsay Serene (Cornell U.)
Amy Shipley (Portland State U.)
Paul Skrade (Iowa State U.)
Brian Smith (U. Nevada)
Jaclyn Smolinsky (U. Southern Mississippi)
Helen Sofaer (Colorado State U.)
Sonya Steckler (U. Arizona)
Erin Strasser (Boise State U.)
Flavio Sutti (U. Vermont)
Audrey Taylor (U. Alaska)
Morgan Tingley (UC Berkeley)
Judith Toms (U. Missouri)
Angela Tringali (U. Central Florida)
Thomas Unfried (U. Washington)
Judith Ungvari-Martin (U. Florida)
Ursula Valdez (U. Washington)
Caroline Van Hemert (U. Alaska)
Marlene Wagner (Humboldt State U.)
Jennifer Walsh (U. New Hampshire)
Jennifer Wang (UC Berkeley)
Douglas Whalen (U. New Mexico)
Sean Williams (Ohio Wesleyan U.)
Ellen Wisner (Syracuse U.)
Stefan Woltmann (Tulane U.)
Stephanie Wright (Villanova U.)
Jongmin Yoon (Colorado State U.)

POST-DOCTORAL TRAVEL AWARD RECIPIENTS:
Raoul Boughton (Archbold Biological Station)
Matt Carling (Cornell U.)
Sharon Coe (U. Arizona/USFS)
Liliana D’Alba (U. Akron)
Mark Drever (U. British Columbia)
Frank Hailer (Smithsonian Institution)
James Rivers (Oregon State U.)

STUDENT-MENTOR LUNCH
The Student-Mentor Lunch is designed to partner students with established ornithologists in an effort to build camaraderie among people working in the same field, help students learn keys to success, and provide students with a contact person with whom to confer throughout the meeting. Student-mentor partnerships were formed prior the meeting to allow for early relationship development. Participants in the lunch will meet Monday, 8 February at 12:30 at the Registration Desk and then walk together to a local restaurant.

STUDENT-PROFESSIONAL ORNITHOLOGIST SOCIAL
This social event will provide an informal setting for students and professional ornithologists to meet and discuss common research interests. Professionals will be seated at tables organized by their area of study. This will give the students the opportunity to select tables and sit with professionals who share their interests. A variety of different research areas will be represented including Avian Community/Landscape Ecology, Population Ecology/Demography, Avian Physiology/Morphology, Systematics/Evolution, Migration/Orientation, Breeding Biology, Conservation, Behavior, and Genetics. This event will take place on Wednesday, 10 February at 6:30 p.m.-8:00 p.m. in the Golden Ballroom, and is limited to participants who have signed up in advance. A light dinner will be served, and a cash bar will be available.

QUIZ BOWL
This Jeopardy-style quiz bowl will be on Wednesday, 10 February from 8:00 p.m.–10:00 p.m. in the Golden Ballroom. Up to nine teams of 3 will compete to answer general knowledge questions on a variety of topics that somehow relate to birds, ranging from ornithological knowledge categories like Avian Morphology and Taxonomy to random categories like Mythical Birds and Avian Anagrams. Each of the teams will participate in a timed match against two other teams where up to 25 questions will be asked. The point values of the questions will vary, with more difficult questions being worth a higher point value. At the end of each timed match, one final question will be asked where teams can wager up to all of their accumulated points. The winning teams from each first-round match will then play in the championship round that will be played in the same manner as the first round. Prizes will be awarded to the winning team.

GET TO KNOW YOUR SOCIETY
Ever wonder what AOU, COS, and SCO do when they aren’t holding meetings? Sure, they put out quality journals, but what else do they do? Come find out at this informal session where representatives from all three societies will be present to discuss what their society does on a year-round basis and to provide information on how to get more involved in those activities. This is an opportunity for students and professionals to take a more active role in the societies and in ornithology. The event will take place Wednesday, 10 February at 1:15-2:00 p.m. in Sunset.

SPECIAL EVENTS
OPENING RECEPTION
Kick off the week at a poolside reception on Sunday evening, 7 February at 7:00-10:00 p.m. Appetizers and a cash bar will be available.

NIGHT AT THE MUSEUM
Join your colleagues on Monday night, 8 February for a fun evening at the San Diego Natural History Museum, where guests will have access to two exciting exhibits. Darwin: Evolution/Revolution is a special exhibit coinciding with the 200th anniversary of Darwin’s birth and the 150th anniversary of the publication of On the Origin of Species and includes Darwin’s own notebooks, manuscripts, specimens, and personal objects as well as fossils and living organisms. Guests will also be able to explore the museum’s Fossil Mysteries exhibit which includes a variety of fossils and recreations of prehistoric life through a 75-million year timeline, including dinosaurs, mastodons, and a giant 34-foot Megalodon shark.

Event ticket includes shuttle transportation between the hotel and the museum, access to the museum, a complimentary drink ticket, and delicious heavy appetizers. Buses to the museum will begin departing from the drive area outside the Atlas Ballroom at 6:00 p.m. and will make several round-trips during the evening. The last bus back to the hotel will depart from the museum at 10:00 p.m.
ALL-OUT OSTRICH UPROAR
Our traditional 5 K fun race will take place on Wednesday, 10 February at 4:30 p.m. and will explore the beautiful San Diego River. After meeting at the conference Registration Desk, participants will walk together to the north side of the Town & Country Hotel, from where they will head east to the river trail. Runners will enjoy a view of the sunset over the river as they head south to cross the bridge before turning west back onto the river trail. The race ends at the Town & Country hotel, leaving just enough time to clean up and enjoy evening activities.

SILENT AUCTION
Items in the Silent Auction will be on display throughout the conference in the Exhibit Hall. Attendees may bid on items between 8:00 a.m.-5:30 p.m. Monday and Wednesday, and 8:00 a.m.-10:00 p.m. on Tuesday (including at Poster reception). Potential buyers should record their bids on sheets accompanying each item; we ask participants to consider meaningful increments in bidding. Winning bids will be determined at 5:30 p.m. Wednesday. Winners must pay for and pick up purchased items between 8:00-11:00 a.m. Thursday. Proceeds from the auction will be used to fund student travel and participation at future meetings. Organized by the joint Student Affairs Committee.

PHOTO CONTEST
Photographs depicting birds by amateur and professional photographers will be on display throughout the meeting in the Exhibit Hall. Contest entries will be available for judging by conference participants 8:00 a.m.- 5:30 p.m. Monday and Wednesday, and 8:00 a.m.-10:00 p.m. on Tuesday (including at Poster reception). Winners in four categories will be announced at the closing banquet on Thursday, 11 February, and prizes must be picked up by 10:00 p.m. that night.

CLOSING BANQUET
The closing banquet will be held in the Golden Ballroom on Thursday, 11 February at 7:00 p.m. A reception and cash bar will precede the banquet at 6:00 p.m.-7:00 p.m. Student and other awards will be announced during the evening.

EARLY MORNING BIRD WALKS
Spend a morning birding some local sites within a short distance of the Town & Country, including the San Diego River mouth, Tecolote Canyon, Presidio Park, and Mission San Diego de Alcalá. Morning bird walks will be offered each morning of the conference (8 February – 11 February). All trips leave from the main lobby entrance of the Town & Country at 6:00 a.m., and will strive to return by 8:00 a.m. Trips are free and open on a first come-first-served basis. Transportation will be by van, and group size is limited to 12 people per trip. Sign-up sheets will be located at the conference Registration Desk.

PRE- AND POST-MEETING FIELD TRIPS
San Diego is a world-class birding destination, with exactly 500 species reported in the county. A range of popular half-day to full-day field trips both before and after the meeting are available to help conference attendees sample the avifauna of this diverse and beautiful region.

LOS CORONADOS ISLANDS PELAGIC TRIP
Two trips: Friday, 12 February and Saturday, 13 February
Full-day trip by boat to Los Coronados Islands off Tijuana, Mexico, site of important colonies of the Brown Pelican, Brandt’s Cormorant, Western Gull, Xantus’ Murrelet, storm-petrels—and now Brown Booby. We will come and go by way of the most productive sites for pelagic birds off San Diego, center of the winter range of the Black-vented Shearwater; many other species such as the Short-tailed Shearwater and Rhinoceros Auklet are likely.

Buses leave from the semi-circular drive area outside the Atlas Ballroom Foyer at the Town & Country Hotel off Fashion Valley Road. Buses will depart at 6:00 a.m. and return to the hotel at approximately 6:00 p.m. Food is available for purchase at the boat’s galley. Cost per person: $80.

SALTON SEA TRIP
Sunday, 7 February
Full-day trip by bus from San Diego to the south end of the Salton Sea and Imperial Valley, man-made environments that are now the sites of some of the largest concentrations of birds in North America. The area is the winter home of vast numbers of wintering waterbirds such as the Snow and Ross’s Geese and White-faced Ibis, and a large fraction of the total population of the American White Pelican, Mountain Plover, Long-billed Curlew, and Eared Grebe. We will also see wintering land birds and localized resident species such as Abert’s Towhee. Leaders: Kathy Molina and Kimball Garrett.
Buses leave from the semi-circular drive area outside the
Atlas Ballroom Foyer at the Town & Country Hotel off
Fashion Valley Road. Buses will depart at 5:00 a.m. and
return to the hotel at approximately 7:00 p.m. Tickets
($75 per person) include box lunch.

SAN DIEGO COAST
Sunday, 7 February
Half-day trip by van to birding hot spots around San
Diego, including the San Diego River mouth, south
San Diego Bay, and the Tijuana River estuary. The
San Diego River mouth attracts a wide diversity of
shorebirds and waterfowl and is the principal site in
California for foraging of the Little Blue Heron. The
huge colony of terns in south San Diego Bay is not
active in February, but the area features a great diversity
of waterbirds. The Tijuana estuary is one of southern
California's largest remaining tidal marshes and critical
habitat for the Light-footed Clapper Rail, Belding's
Savannah Sparrow, and Snowy Plover. It is foraging
habitat for California's only resident Yellow-crowned
Night Herons.

Vans leave from the semi-circular drive area outside the
Atlas Ballroom Foyer at the Town & Country Hotel off
Fashion Valley Road. Vans will leave at 6:00 a.m. and
return to the hotel by noon (lunch not included). Cost
per person: $45.

SAN DIEGO ZOO'S WILD ANIMAL PARK
Friday, 12 February
Half-day trip by van to the Wild Animal Park, the
world-famous San Diego Zoo's 1800-acre park
exhibiting over 3500 animals of 260 species. These
include many dozens of birds, especially African, such
as the Hammerkop, Waldrapp, and Black Egret. The
park exhibits the California Condor as well as being the
center for condor research and breeding. The park also
attracts many wild birds, such as Scott's Oriole, Costa's
Hummingbird, a large roost of Turkey Vultures (with a
regular Zone-tailed Hawk), and wading birds (including
California's single resident Wood Stork). The trip will
include a behind-the-scenes tour as well as the public
exhibits and gardens.

Vans leave from the semi-circular drive area outside the
Atlas Ballroom Foyer at the Town & Country Hotel off
Fashion Valley Road. Vans will leave at 9:00 a.m. and
return to the hotel by 3:30 p.m. Lunch is available for
purchase at the park's snack bars and restaurants. Cost
per person: $85.

EXHIBITORS AND VENDORS

American Ornithologist's Union
Booth: # 15
405 Villa View Drive
Farmington, NM 87402
http://www.aou.org

Birds&Beans LLC
Suite 506
15 River Street
Boston, MA 02108
http://www.birdsandbeans.com

Birds of North America
Booth: #18
Cornell Lab of Ornithology
159 Sapsucker Woods Road
Ithaca, NY 14850
http://bna.birds.cornell.edu/bna

Canopy Tower
Booth: #21
Centro Commercial Plaza Paitilla, #53
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W.T.C. Panama
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http://www.canopytower.com

Cooper Ornithological Society
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http://www.dodpif.org

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Kowa Optimed, Inc.
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http://www.kowa-usa.com/frontend/default.asp
MEETING ABSTRACTS

Abstracts for all scientific sessions can be found at: http://www.birdmeetings.org/cosaousco2010/. Any changes in the schedule during the meeting will be posted at this site daily.

PLENARY AND KEYNOTE LECTURES

PLENARY SPEAKERS

We will begin each morning with a plenary address at 8:00 a.m. in the Golden Pacific Ballroom. In addition to the three plenary speakers below, three finalists for the COS Young Professional Award will deliver presentations during a plenary session on Thursday, 11 February 2010, followed by a keynote presentation by Renée Duckworth, recipient of the 2009 Ned K. Johnson Young Investigator Award.

MONDAY, 8 FEBRUARY

Scott Derrickson

“Conservation of Endangered and Threatened Species – Research, Reality, and Future Directions”

Scott R. Derrickson received his BA in Biology at Gettysburg College in 1970. He pursued graduate studies in the Department of Ecology and Behavioral Biology at the University of Minnesota, where he received his MS in 1975 and Ph.D. in 1977 for studies on Northern Pintails. From 1977-1983, Scott was a Research Biologist with the U.S. Fish and Wildlife Service’s Endangered Species Research Program at the Patuxent Wildlife Research Center in Laurel, Maryland. In 1983, Scott moved to the Smithsonian Institution’s National Zoological Park, where he has served in various capacities as Curator of Ornithology (1983-1987), Deputy Director for Conservation (1987-2006), Deputy Director for Conservation and Science (2006-2009), and Acting Associate Director for Conservation and Science (2009-present). Over the past 30 years, Scott has been involved in wide variety of avian conservation initiatives and recovery programs. His work has spanned a diverse range of activities including research, captive propagation and management, reintroduction, recovery planning and implementation, and program and policy assessment. He has authored or coauthored over 65 papers, and received awards from several agencies, conservation organizations, and professional societies for his accomplishments. Scott was as member of the AOU panel that reviewed the California Condor recovery program in 2007-2008, and was the recipient of the AOU’s Ralph W. Schreiber Conservation Award in 2009.

Abstract: Recovery efforts for endangered and threatened species have traditionally focused on the identification and subsequent amelioration of limiting factors, and variety of in situ and ex situ methods have been adopted on a species-by-species basis to alleviate factors affecting survival and fecundity in wild populations. While significant conservation successes have been recorded, recovery for most endangered species remains elusive because limiting factors remain unknown, have proven intractable, or cannot be addressed effectively within the existing socio-political environment. Using selected examples of avian recovery programs in which I have been involved over the past three decades, I will illustrate each of these circumstances and then discuss the diversity of

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San Diego Natural History Museum
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San Diego, CA 92112-1390
http://www.sdnhm.org

SWCA-Environmental Consultants Phoenix Office
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Phoenix, AZ 85012
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research, planning and policy issues associated with these programs. Given the environmental impacts associated with human population growth and predicted climate change, efforts to preserve biodiversity are moving from single-species programs to multiple-species and ecosystem-wide initiatives. Success in these initiatives will require fundamental changes in our social priorities and institutions and unprecedented levels of cooperation and coordination among researchers, resource managers, and stakeholders.

**TUESDAY, 9 FEBRUARY**

**Kenneth P. Dial**

“Ecological and evolutionary significance of the locomotor development in Birds”

Dr. Kenneth P. Dial has been the Director of the Flight Laboratory in the Division of Biological Sciences at the University of Montana for over 20 years. A native of Southern California, son of an aeronautical engineer, Ken grew up next to LAX and the Ballona Wetlands fueling his interest at an early age in animal and aircraft flight. Ken is an active jet pilot holding airline transport plane (ATP), instrument, commercial, and multi-engine ratings. He obtained his bachelor’s in biology at Loyola Marymount in Los Angeles, his MS at California State University, Long Beach, and Ph.D. at Northern Arizona University. Following a post-doctoral fellowship at the Museum of Comparative Zoology at Harvard University where he studied the anatomy and physiology of bird flight, Dial assumed a professorship at the University of Montana. Ken continues to teach a graduate field course in Tanzania on the evolutionary ecology of East Africa. He also hosted 36 episodes of Discovery Channel’s Animal Planet “All Bird TV.” Dial’s research activities focus on experimental studies of avian flight, specifically the ontogeny and scaling of avian locomotion, in an effort to offer new perspectives on the ecology, origin, and evolution of avian flight. 

**Abstract:** Despite over a century of debate, the evolution of avian flight remains one of the most fiercely contested topics in evolutionary biology, and resolution cannot be possible without a more rigorous method for assessing the validity of competing hypotheses. Until recently, essentially all published efforts on the origin of avian flight fell into one of two traditional camps, arboreal or cursorial; a distinction considered by some to represent a false dichotomy. As it becomes increasingly evident that conventional avenues of investigating locomotor transitional stages are unable to discriminate between alternative or even plausible scenarios, a more incisive experimental approach is required to limit the proliferation of non-falsifiable hypotheses. The time appears ripe for young scientists from diverse disciplines to delve into this volatile subject and energize our thinking beyond the traditional scope. Mining new data derived from extant species (e.g., behavior, life history biology, developmental biology, genetics, experimental functional morphology and physiology) that can be phylogenetically integrated with the wealth of fossil proto-avian theropod material will lead to more comprehensive and useful theses regarding adaptive states of transitional forms. In addition, by employing “biological uniformitarianism” we can limit the proliferation of countless permutations of arboreal and cursorial variants—and rely on integrative, observable, and/or testable theses on the origin and evolution of flight. The ontogenetic-transitional using hypothesis is presented as the first attempt toward offering an integrative and observable hypothesis regarding transitional stages leading to avian flight.

**WEDNESDAY, 10 FEBRUARY**

**Kathy Martin**

“The World Wide Nest Web: how excavators and decay shape cavity nesting bird communities”

Dr. Kathy Martin is a Professor of Wildlife Ecology in the Forest Sciences Department at the University of British Columbia, Vancouver, and a Senior Research Scientist with Environment Canada. She completed her BSc at the University of Prince Edward Island and graduate degrees at the University of Alberta and Queen’s University, Ontario. Kathy has always been fascinated by how species persist in extreme and challenging environments. For several decades, she has conducted research on population ecology and life history variation of alpine and arctic grouse and songbirds, especially in relation to environmental variability. Since 1995, she and her students have conducted research on the community ecology of cavity nesters and other forest birds in relation to forestry activities and insect outbreaks.

**Abstract:** In forest and savannah ecosystems, 20-40% of vertebrate species depend on tree cavities to reproduce or for other critical life activities. The cavity nesting habit has arisen in a wide variety of avian families and across continents, and often varies within genera. Nest cavities in trees provide secure environments to raise offspring, but generally the supply of high
THURSDAY, 11 FEBRUARY

Renée Duckworth, Keynote Speaker

“An Evolutionary Perspective on Avian Range Expansion”

Dr. Renée A. Duckworth is an Assistant Professor in the Department of Ecology and Evolutionary Biology at the University of Arizona. Her research is at the interface of ecology, evolution and behavior with specific focus on the role of behavioral change in ecological and evolutionary processes. She received her Ph.D. from Duke University in 2006 for her studies of the evolutionary ecology of avian range expansions. She subsequently moved to Edinburgh University, UK as an NSF International Research Fellow to study the genetic basis of behavioral variation. She continued her postdoctoral work at the Department of Organismic and Evolutionary Biology at Harvard University where she explored the role of behavior in evolutionary diversifications and extinctions. In 2008, she was named the G.G. Simpson Fellow in Evolutionary Biology by the University of Arizona. In addition to receiving the 2009 Ned K. Johnson Young Investigator Award from the AOU, she is also a recipient of the 2009 Young Investigator Prize from the American Society of Naturalists.

Abstract: Over the next several decades, numerous avian species are expected to modify their geographical ranges in response to climate change and other anthropogenic effects. Predicting the extent and speed with which such range changes will occur is challenging because we currently have a poor understanding of the mechanisms that enable species to colonize new areas. I will use the empirical example of western bluebirds’ recent range expansion in North America to illustrate the importance of integrating information from ecology, evolution and development to gain insight into the mechanisms of range expansion. In this species, range expansion was accompanied by rapid across-generation shifts from a “colonizing” phenotype of highly dispersive, competitive individuals to a “settler” phenotype of less dispersive and parental individuals. Such cycles enabled population persistence during the process of colonization and were proximately produced by maternal effects on offspring dispersal behavior in response to local resource distribution. I suggest that close integration of maternally-induced developmental variability with changes in resource availability is a product of historical recurrence of fire-induced habitat succession in this species. This work suggests that a combination of developmental and historical approaches are crucial to understanding how species will respond to anthropogenic changes of this century.

Cooper Ornithological Society Young Professional Award Finalists

The following three finalists will deliver 25-minute presentations at the YPA Plenary session on Thursday, 11 February:

Daniel C. Barton, University of Montana

“Ecological Causes of Life History Variation Tested by a Comparative-experimental Approach”

Abstract: Three alternative hypotheses (food limitation, nest predation, adult mortality) are thought to explain latitudinal variation in reproductive strategies. We tested these alternatives by comparing responses of parental provisioning rate to natural and experimental variation in brood size among species. The reaction norm of provisioning to brood size is key because it integrates critical tradeoffs, and because alternative hypotheses predict alternative patterns of variation. We found variation among 29 bird species in the slope of reaction norms of per-offspring provisioning to natural variation in brood size was explained by variation in adult mortality. Yet, species with high adult mortality appeared to adjust offspring number to parental provisioning, consistent with food limitation. We experimentally reduced broods by half in seven bird species with divergent life histories and found reduced broods showed increased per-nestling provisioning and growth, also consistent with food limitation. However, magnitudes of manipulation effect increased with adult mortality, suggesting species with low mortality reduce effort with reduced broods. These results suggest ecological factors thought to cause life history variation may interact and shift in importance across species and regions.
Andrea Townsend*, Cornell University

“Suboptimal Reproductive Sharing in Cooperative Crows? An Inbreeding Extension to the Tug-Of-War Model of Reproductive Skew”

Abstract: Theory predicting how reproduction should be partitioned among family members in cooperatively breeding birds is scant, despite the vast reproductive skew literature, because the costs and benefits of inbreeding have yet to be incorporated into current skew models. Here, we extend the tug-of-war model of reproductive skew with inbreeding parameters, and test the predictions of this model in a cooperatively breeding American crow (Corvus brachyrhynchos) population. Approximately 20% of offspring in this crow population were produced through incestuous or highly inbred matings, and inbred offspring suffered severe survival costs. Using empirically derived genetic relatedness coefficients, male competitive asymmetries and a range of offspring survival probabilities, we generated expected reproductive shares of the male breeders and auxiliaries, and compared these expectations to patterns observed in the field. We found that expected values predicted observed values, but only when we specified the minimal predicted survival costs of inbreeding—the upper bound of the 95% confidence interval of the survival probability for inbred birds. Our results suggest that these crows partitioned reproduction suboptimally, given the high costs of inbreeding in this population.

Zachary Cheviron*, University of California, Los Angeles

“Genetics of High-Altitude Adaptation in Rufous-Collared Sparrows (Zonotrichia Capensis)”

Abstract: Here we combine population genetic data with protein modeling analyses to test for adaptive divergence in the gene that encodes the α-subunit of the major adult hemoglobin isoform (αA-hemoglobin) in Zonotrichia capensis, a species with an exceptionally broad altitudinal distribution. We sampled 168 individuals from 17 sampling localities that are distributed along three elevational test transects and four latitudinal control transects on the west slope of the Peruvian Andes. We sequenced the entire αA-hemoglobin gene in all of the sampled individuals. Each individual was also genotyped at four nuclear introns and four nuclear autosomal microsatellites. Two amino acid replacements within exon 2 of the αA-hemoglobin gene segregate within populations, and the frequency of these replacements is strongly associated with altitude. αA-hemoglobin gene flow estimates along the control transects were 70 times greater than those estimated along the elevational transects. Gene flow was not similarly reduced for the other nuclear loci. The severe reduction of altitudinal gene flow in the absence of similar reductions for putatively neutral loci is consistent with local adaptation of αA-hemoglobin to different altitudinal environments.

WORKSHOPS

Six pre-meeting workshops will be held on Sunday, 7 February.

Getting Involved with Non-academic Institutions
9:00-12:00 ....................................................... Brittany
Organizers: Wendy Lenhart, Dan Barton (daniel.barton@grizmail.umt.edu), Andrea Norris, and Kristina Cockle

This workshop will aim to bridge the gap between academics and non-academic institutions. Objectives are to inform students on how to get experience and training at non-academic institutions (non-profits, government agencies, and NGO’s). Representatives will include AZA institutions, Nature Conservancy, Wildlife Conservation Society, USGS, etc.

Neotropical Bird Identification Workshop
9:00-12:00 ........................................................... Ascot
Organizer: Jose Soto (jsoto@canopytower.com)

This workshop is designed to teach beginning birders, or advanced birders who have not yet visited the Neotropics, to identify the amazing diversity of bird species there. Set in a classroom, the workshop will feature a powerpoint presentation with images and sounds of birds. Participants will learn how to ID birds by size, silhouette, behavior, vocalization, habitat, and field marks of the wing and head. Please bring a copy of Birds of Panama if possible; a few copies will also be available at the workshop.

North American Ornithological Atlas Committee (NORAC)
9:00-5:00 ............................................................. Eaton
Organizers: Andrew Couturier (acouturier@bsc-eoc.org) and Charles M. Francis

The objectives of the workshop are to facilitate the exchange of information on atlases and to develop a compendium of “best practices.” This compendium, or atlas handbook, will function as a central resource for those considering implementing a breeding bird atlas. The agenda will consist of a mixture of short presentations and informal discussions throughout the day.
Avian First Aid for the Field and Captive Setting
9:00-12:00 .......... Garden Salon Two (first workshop)
1:00-5:00 .......... Garden Salon Two (second workshop)

Organizer: Lynn Miller (mbeland@securenet.net)

With the decline in avian populations world-wide, we can not afford to lose individuals impacted through human interaction. This workshop aims to give solid practical advice in managing injuries, allowing the attendee to evaluate an injury, to stabilize it, and to transport the bird to the appropriate site for care.

Phylogenetic Methods for Estimating Species Trees
1:00-5:00 ................................. Garden Salon One

Organizers: Scott Edwards (sedwards@fas.harvard.edu) and Dennis Pearl

A computer workshop focused on new methods for estimating phylogenetic trees from multilocus DNA sequence data. A new class of phylogenetic methods is emerging for the estimation of so-called “species trees,” trees of species, populations and lineages that can be estimated by combining the information from multiple, independently segregating genes or DNA sequences. The workshop will focus on implementing and running two software packages (Bayesian Estimation of Species Trees (or BEST), and Species Trees Estimated by Average Ranks of Coalescence Times (or STAR)), and will allow participants to analyze their own or example data sets.

Avian Interactions with Power Lines:
An Overview of Avian Protection Plan Guidelines, Regulations, and Techniques for the Protection of Avian Species
1:00-5:00 ....................................... Brittany

Organizers: Kara Donohue (Kara.Donohue@sce.com) and Sherry Liguori

This workshop addresses impacts of energy infrastructure and development on migratory birds. It will review the causes of bird electrocutions and collisions with power lines, regulations protecting migratory birds, recent changes to eagle regulations due to bald eagle de-listing, measures to reduce bird mortality associated with power lines, management of raptor nests on power lines, and the development of avian protection plans that allow utilities to protect migratory birds while enhancing power reliability.

SYMPOSIA

This year we have an outstanding array of symposia covering a broad array of topics relevant to the many facets of current ornithology:

MONDAY, 8 FEBRUARY

S09: Ornithological Applications
10:00-12:30 p.m. .............................. Windsor/Hampton

Organizers: Tom Gardali and Nat Seavy

S10: Women in Ornithology: History, Current Roles, Future Opportunities and the Role of Societies in Professional Development
10:00-12:30 p.m. .............................. Sunrise

Organizers: Bonnie Bowen and Kim Sullivan

S04: Assessments of Habitat Selection and Quality: Perspectives and Future Directions
2:00-5:30 p.m. ............................... Windsor/Hampton

Organizer: Anna Chalfoun

S03: Population and Community Responses Of Cavity-Nesting Birds to Natural and Anthropogenic Disturbance
2:00-5:30 p.m. ............................... Sunrise

Organizers: Andrea Norris, Kristina Cockle, and Kathy Martin

TUESDAY, 9 FEBRUARY

S02: Tri-national Bird Conservation: Shared Strategies for a Shared North American Avifauna
10:00-12:30 p.m. .............................. Windsor/Hampton

Organizers: Ken Rosenberg, Andrew Couturier, Humberto Berlanga, Peter Blancher, and Terry Rich

S12: Avian Immunity: Resilience in the Face of Emerging Zoonoses and Climate Change
10:00-12:30 p.m. .............................. Sunrise

Organizer: Caldwell Hahn

S01: Saving Hawaii’s Birds
2:00-5:00 p.m. .............................. Windsor/Hampton

Organizers: Thane Pratt and David Leonard

S05: Birds and Ecosystem Services
2:00-5:00 p.m. .............................. Sunrise

Organizers: Daniel Wenny and Christopher Whelan
**WEDNESDAY, 10 FEBRUARY**

**S11: Yellow-billed Cuckoos: Biology and Conservation in the Western United States**
10:00-12:30 p.m. Windsor/Hampton

*Organizer:* Matt Johnson

**S08: Marine Birds: Dynamic Responses to Interannual to Interdecadal Climate Variability and Change in the Gulf of California and Southern California Current: Models and Applications**
10:00-12:30 p.m. Windsor/Hampton

*Organizers:* Enriqueta Velarde, Daniel Anderson, Exequiel Ezcurra, and William Sydeman

**THURSDAY, 11 FEBRUARY**

**S06: Advances in Shorebird Conservation**
10:00-12:30 p.m. Windsor/Hampton

*Organizers:* Roy Churchwell, Abby Powell, and Stephen Brown

**S07: Rusty Blackbird: Range-Wide Perspective on a Short-Distance Migrant in Decline**
10:00-12:30 p.m. Sunrise

*Organizer:* Paul Hamel

**CONCURRENT PAPER SESSIONS**

Six concurrent sessions will be held in the Convention Center, nearby Sunrise Room, and Windsor/Hampton Room.

**INSTRUCTIONS FOR SESSION CHAIRS AND PRESENTERS**

**Session Chair Information:**
Please arrive 10 minutes early to familiarize yourself with the meeting room and AV equipment. Once the presentation is launched, the presenter will control the program from the podium using a computer mouse or the up/down/right/left keys on a keyboard. Each room will have a timer and slide advancer/laser pointer. We must keep on time! Please start the sessions on time; do not delay while people return from breaks. If a speaker ends early or a talk is cancelled, please wait until the scheduled start of the next presentation before continuing.

Talks are 12 minutes long with 2 minutes for questions and a 1-minute period for changing rooms. Please briefly introduce the speaker, their affiliation, and the title of their talk – no biographical elaboration is necessary.

To keep talks on schedule, we will use the following timing conventions: at 10 minutes past the start of the talk, notify the speaker that there are 2 minutes left. If we are able to implement a central timing station, an indicator will sound. At 12 minutes, indicate it is time to begin any questions; again, an indicator will sound. At 14 minutes indicate that the talk and questions are over; the indicator will sound to signal the end of the allotted time, giving everyone an opportunity to move between rooms if they wish. At 15 minutes a sound will indicate the start of the next talk. (Note that if you are chairing a 30-minute talk in a symposium, the talk and any questions still must end at the same time as the second concurrent 15-minute talks in the general sessions.)

We are doing a few things slightly differently at this conference. For example, we are dividing our 10-talk morning sessions into two continuous 5-talk blocks, with a separate chair for each block; that way no one has to sit in one spot for 2-1/2 hours. Our afternoon talks are divided into two 6-talk blocks with a coffee break in between and two separate chairs as well (although some afternoon sessions have been shortened to accommodate society business meetings). We also hope to implement a centralized timing station to keep concurrent sessions synchronized, and further reduce the burden on session chairs.

**CREATING YOUR PRESENTATION**

The computers in the session rooms will be Windows XP based PCs with Microsoft Office 2007, including PowerPoint. Verification of proper performance in the Presentation Room is essential, particularly if video and animation are included in the presentation. Internet access will not be available during your presentation.

Personal laptops cannot be used in the session rooms. All presentations will be uploaded from the Presentation Room to Meeting Room laptops provided for your use. However, support is available in the Presentation Room for any last-minute revisions to your presentation. Please save a copy of your most current presentation on a USB Flash “thumb” Drive, external Hard Drive, a CD, or DVD, and bring it with you when checking in at the Presentation Room. Please do not bring your laptop as the process of physically setting it up to retrieve, store, and transfer the presentation is prohibitively time-consuming.

All presentations must be created in, or converted to, Microsoft’s PowerPoint program.
Macintosh Users:
Please make sure that all inserted pictures are either JPEG or PNG file-types. Quicktime (.mov) files are also an accepted video format. Presenters using Macintosh’s Keynote program should read http://docs.info.apple.com/article.html?path=Keynote/4.0/en/c9kn26.html for directions on converting their presentation to PowerPoint. This conversion should be completed prior to uploading the presentation; however, there will be a Macintosh laptop available in the Presentation Room for on-site conversion of presentations if required.

Video Formats:

PowerPoint embeds image files directly into the file when you save them, while video files are not embedded. Only a link is made to the video file. Copy the video clips you want to insert into the same folder as the PowerPoint file. This will eliminate the problem of PowerPoint losing the link to the file.

There is a trade-off between high quality videos and large files. Use short video segments when needed, and try to keep the file size to less than 20 Mb.

Fonts:
Arial and Helvetica are recommended for clarity and compatibility. Confirm a font size of AT LEAST 24 points for body text and 36–40 points for headings. Light colored text on a dark background is advised. Avoid using red or green. Confirm that the maximum number of lines in text slides is no more than 6 or 7.

Images:
The size of the screen will be 1024 x 768 pixels, meaning that any image with more pixels in the X or Y coordinate that is more than that will not be displayed. The image will be altered by PowerPoint to fit. Large images (i.e. 2000 x 1500 pixels) which are created with digital cameras and scanners will make the resulting PowerPoint file very large. This may cause the presentation to load slowly.

For on-screen presentations, JPEG-type images work well. This type of image file can be created with virtually all imaging programs. There are many graphics programs which can manipulate images. Consult the manual for more specific instructions if needed.

Large/slow presentations can be avoided by using a graphics program to convert the image and inserting images by a specific method:

- Change the size of the image to approximately 800 x 600 pixels
- Save as file type “JPEG” or “JPG”
- Select compression setting of 8 (High quality image)
- Insert all images into PowerPoint as JPEG files.

If you copy the images to the clipboard and then Edit/Paste them into PowerPoint, the images will not be compressed and the PowerPoint file can become very large. To avoid this, insert them directly into PowerPoint (Insert/Picture/from File).

Animations:
Please keep animations to a minimum.

PREPARING FOR YOUR PRESENTATION

Advance Submission:
Presenters will receive an email from the audio visual company, Meeting Services, Inc., that will include a link to their website to upload presentations online prior to the start of the meeting. Presenters will be able to submit their files via the web and will receive their login credentials via email. Online submission of your presentation files via the Internet is not required, but is strongly encouraged as presenters who send in their files via the Web site will have faster check in at the Presentation Room. Please make sure to upload all media files required for your presentation. Any videos, sounds, or fonts not included in your online upload folder must be brought to the Presentation Room on your laptop or Flash Drive to be added to your folder.

On-site Submission and Presentation review/editing:
Check in at the Presentation Room (Town & Country Hotel, Pacific Salon 7) to submit your files if you did not do so in advance, and to preview your presentation. If you are in a morning session (10:00am -12:30pm) you must come to the Presentation Room by 5pm the day preceding your talk. If you are in an afternoon session (2:00-5:30pm) you must come by before 10:00am the day of your presentation. The Meeting Services technicians will assist with the upload of your files and provide the opportunity to preview and/or edit your presentation as necessary.

If you submit your files in advance, you may edit your presentation up to the deadlines above. After you have submitted your files and have finished reviewing and/
or making changes to your presentation, you must tell
Meeting Services personnel that you have viewed and
approved your presentation file before you leave the
Presentation Room. Meeting Services will then transfer
the updated file to your meeting room.

The Presentation Room will be open 7am-5pm Sunday,
February 7 through Thursday, February 11.

Quality Control:
Giving your presentation a last “once-over” in the
Presentation Room is the most important step you
will take to ensure your success. When reviewing
your presentation, make sure all fonts, images, and
animations appear as expected and that all audio or
video clips are working properly. The computers in the
meeting rooms are the same as the computers in the
Presentation Room, therefore:

IF THE PRESENTATION DOES NOT PLAY PROPERLY
IN THE PRESENTATION ROOM, IT WILL NOT PLAY
PROPERLY IN THE MEETING ROOM.

Security:
Presenters are required to provide identification in order
to submit their presentation as well as to access it in the
Presentation Room.

Cameras and video equipment are not permitted in the
Presentation Room.

All files are deleted at the end of the conference,
unless permission has been granted to the conference
association to retain the presentation files.

YOUR MEETING ROOM EXPERIENCE
Your session room laptop will have your presentation
clearly viewable on the desktop. Simply double-click
your presentation and control it from the podium using
the computer mouse or the up/down/right/left keys on
a keyboard. Audio Visual technicians will be located
in close proximity to all meeting rooms and will be
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CONTACT INFORMATION
For questions regarding the online submission Web
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### MONDAY ORAL SESSIONS AT A GLANCE

#### 8:00 a.m.
**Plenary Session - Golden Ballroom**  
Welcome & Announcements  
AOU Awards  
Plenary Address: Scott Derrickson  
Conservation of Endangered and Threatened Species – Research, Reality, and Future Directions

#### 9:30 a.m.
Coffee Break

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<th>Room</th>
<th>Windsor/Hampton</th>
<th>Golden Ballroom</th>
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### TUESDAY ORAL SESSIONS AT A GLANCE

#### 8:00 a.m.
**Plenary Session - Golden Ballroom**  
Welcome & Announcements  
COS Awards  
Plenary Address: Ken Dial  
Ecological and evolutionary significance of the locomotor development in Birds

#### 9:30 a.m.
Coffee Break

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<th>Room</th>
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<td>S01: Saving Hawaii’s Birds - 1</td>
<td>G06: Breeding Biology and Parental Care - 3</td>
<td>S05: Birds and Ecosystem Services - 1</td>
<td>G09: Migration and Stopover Biology - 1</td>
<td>G26: Evolution</td>
<td>G17: Urban Effects</td>
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### Wednesday Oral Sessions at a Glance

#### 8:00 a.m.
**Plenary Session - Golden Ballroom**
*Welcome & Announcements*

- **SCO Awards**
- **Plenary Address:** Kathy Martin
  *The World Wide Nest Web: how excavators and decay shape cavity nesting bird communities*

#### 9:30 a.m.
**Coffee Break**

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#### 12:30 p.m.
**Lunch on your own**

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#### 4:00 p.m.
**Coffee Break**

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### Thursday Oral Sessions at a Glance

#### 8:00 a.m.
**Plenary Session - Golden Ballroom**
*Welcome & Announcements*

- **Plenary:** COS Young Professional Award Finalists
  *Keynote Address: Renée Duckworth
  An Evolutionary Perspective on Avian Range Expansion*

#### 9:45 a.m.
**Coffee Break**

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<tr>
<td>10:00 a.m.</td>
<td>S06: Advances in Shorebird Conservation - 1</td>
<td>G51: Disease, Parasites, Immunity - 1</td>
<td>S07: Rusty Blackbird - 1</td>
<td>G30: Biogeography - 1</td>
<td>G38: Grasslands and Grazing - 1</td>
<td>G40: Hormones and Immunology</td>
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#### 12:30 p.m.
**Lunch on your own**

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<tr>
<th>2:00 p.m.</th>
<th>G11: Capt Breeding, Release, Monitoring, and Conserv Planning - 1</th>
<th>G04: Acoustic Monitoring and Detectability</th>
<th>G39: Habitat Relationships of Species of Concern</th>
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<tr>
<td>3:30 p.m.</td>
<td>G11: Capt Breeding, Release, Monitoring, and Conserv Planning - 2</td>
<td>G42: Models, Methods, Landscapes</td>
<td>G12: Habitat Relationships - 3</td>
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<td>4:00 p.m.</td>
<td>G42: Models, Methods, Landscapes</td>
<td>G12: Habitat Relationships - 3</td>
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### MONDAY MORNING PRESENTATIONS

**8:00 a.m. Plenary Session - Golden Ballroom:** Welcome & Announcements, AOU Awards, Plenary Address: Scott Derrickson, “Conservation of Endangered and Threatened Species – Research, Reality, and Future Directions”

**9:30 a.m. Break**

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<th>Session</th>
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<tbody>
<tr>
<td>S10 Women in Ornithology</td>
<td>Golden Ballroom</td>
<td>G33 Effects of Exotics on Species' Biology</td>
<td>J. Brown</td>
<td>G02 Sexual Selection</td>
<td>M. Liu</td>
<td>G15 Community Ecology</td>
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**10:00 a.m.**

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* ^ Indicates a Young Professional Award Candidate.
## Monday Late-Morning Presentations

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<th>Room</th>
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<tr>
<td></td>
<td>S09 Ornithological Applications</td>
<td>Tom Grubb &amp; Nar Scary</td>
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<td>G35 Effects of Wind Farms and Energy Development</td>
<td>J. Garvin</td>
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<td></td>
<td>S10 Women in Ornithology</td>
<td>Bonnie Bowen &amp; Kim Sullivan</td>
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<td>G37 Landscape Scale</td>
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### 11:15 a.m.

- **Room**: Windsor/Hampton
- **Session**: S09 Ornithological Applications
  - **Title**: Post-Release Studies of Oiled Wildlife: Do Data Support Rehabilitation?
  - **Presenter**: Warnock, N.
- **Title**: Ornithological Applications
  - **Presenter**: Garvin, J. C.; Drake, D.
- **Title**: From Academia to the Non-Profit World: A View of Ornithology
  - **Presenter**: Hall, L. S.
- **Title**: Effects of Wind Farms and Energy Development
  - **Presenter**: Hall, A. M.; Karsten, K. B.
- **Title**: Landscape Scale
  - **Presenter**: Webster, M.

### 11:30 a.m.

- **Room**: Golden Ballroom
- **Session**: S10 Women in Ornithology
  - **Title**: Estimating Avian Mortality at a Utility-Scale Wind Farm in North-Central Texas
  - **Presenter**: Hale, A. M.
- **Title**: Influence of Energy Development on Sagebrush Obligate Songbirds
  - **Presenter**: Gilbert, M. M.*; Balchin, A.
- **Title**: Ornithologists in Academia and Government: Progressing in Your Career and Staying Happy
  - **Presenter**: Martin, K.
- **Title**: Bycatch Seascape: Spatial Approaches to Reducing Seabird Bycatch
  - **Presenter**: Lewison, R.
- **Title**: Predictive Model for the Loss of Neotropical Migrants at Communication Towers in Arkansas
  - **Presenter**: Macchia, E. T.

### 11:45 a.m.

- **Room**: Golden Ballroom
- **Session**: G37 Landscape Scale
  - **Title**: Ornithologists in Academia and Government: Progressing in Your Career and Staying Happy
  - **Presenter**: Martin, K.
- **Title**: Ornithologists in Academia and Government: Progressing in Your Career and Staying Happy
  - **Presenter**: Martin, K.

### 12:00 noon

- **Room**: Golden Ballroom
- **Session**: Golden Ballroom
  - **Title**: Assessing Avian Mortality Rates and Population Impacts Associated with an Electrical Transmission Line in Jefferson County, TX
  - **Presenter**: Avers, A. J.; Armstrong, J. W.
- **Title**: Conspicuation and Population Recovery of the Endangered Cape Sable Sedge Sparrow in Florida's Everglades
  - **Presenter**: Various Authors
- **Title**: Conspicuation and Population Recovery of the Endangered Cape Sable Sedge Sparrow in Florida's Everglades
  - **Presenter**: Various Authors

### 12:15 p.m.

- **Room**: Golden Ballroom
- **Session**: G37 Landscape Scale
  - **Title**: Conspicuation and Population Recovery of the Endangered Cape Sable Sedge Sparrow in Florida's Everglades
  - **Presenter**: Various Authors
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  - **Presenter**: Various Authors

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<td>G20 Climate Impacts - Mechanisms</td>
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<td>S03 Population and Community Responses of Cavity-Nesting Birds</td>
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<td>Andrea Norris, Kristine Cockle &amp; Kathy Marron</td>
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<td>G25 Life History - Clutch Size</td>
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<td>S. Beissinger</td>
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**MONDAY EARLY-AFTERNOON PRESENTATIONS**

**2:00 p.m.**
Challenor, A. D.; UNDERSTANDING AVIAN HABITAT RELATIONSHIPS: LESSONS FROM INTENSIVE STUDY OF A SAGEBRUSH PASERINE (5708)
Kats, S. A.; Silver, T. S.; Roderhouse, N. L.; Holmes, R. T.; Wintern, M. S.; CLIMATE SENSITIVITY OF PARENTAL BEHAVIORS AND THEIR FITNESS CONSEQUENCES (5732)
Norris, A. R., Martin, K.; NICHE EXPANSION AND OVERLAP OF CAVITY-Nesting BIRDS IN RESPONSE TO FOREST INSECT OUTBREAKS IN INTERIOR FORESTS OF BRITISH COLUMBIA, CANADA (5703)
Robinson, W. D.; AVIAN REPRODUCTIVE FAILURE IN TROPICAL FOREST FRAGMENTS (5827)
Beissinger, S. R.; PATHOGENIC MICROBES, AMBIENT CONDITIONS, AND LATITUDINAL TRENDS IN AVIAN LIFE HISTORY TRAITS (5925)

**2:15 p.m.**
Kos, B. C.; INFLUENCE OF CLIMATE ON TIMING OF LEFT OF BIRDS (6254)
Walden, L. L.; Koring, W. D.; Leebold, A. M.; EFFECTS OF GYPSY MOTH OUTBREAKS ON NORTH AMERICAN WOODPECKERS (6114)
Mokrousov, K. S.; Snuffer, P. C.; TERRITORY STRUCTURE AND MOVEMENT PATTERNS OF AMAZONIAN UNDERSTORY MIXED SPECIES FLOCKS IN FOREST FRAGMENTS (6204)
Freed, L.; Caven, R.; Diller, K.; SEASONAL VARIATION IN SEX ALLOCATION IN THE HAWAII AKEPA: ADAPTATION AND DEMISE (5733)
Bonte, A. P.; CLASSIC LIFE HISTORY PATTERN REVISITED: DAY LENGTH AND THE LATITUDINAL GRADIENT IN AVIAN CLUTCH SIZE (6011)

**2:30 p.m.**
Thompson III, F. R.; APPROACHES TO STUDYING BREEDING HABITAT RELATIONSHIPS EVOLUTION FROM SELECTION TO POPULATION PERFORMANCE (5966)
Bayard, T. D.; Ebbick, C. S.; QUANTIFYING THE FREQUENCY, DURATION AND EFFECTS OF SALT MARSH SPARROW NEST FLOODING EVENTS UNDER CURRENT CLIMATIC CONDITIONS (5739)
Indeau, L.; Darves, M.; Dogato, P.; THREATS TO SECONDARY LARGE CAVITY-USERS IN THE EASTERN CANADIAN BOREAL FOREST ARE WE OVERESTIMATING THE NEGATIVE EFFECTS OF FORESTRY (6027)
Johnson, E. J.; Snuffer, P. C.; DEMOGRAPHIC STRUCTURING OF NEOTROPICAL FOREST FRAGMENTS: WHY UNDERSTANDING MOIT SEQUENCE IS IMPORTANT (6212)
Freed, L.; Caven, R.; Diller, K.; SEASONAL VARIATION IN SEX ALLOCATION IN THE HAWAII AKEPA: ADAPTATION AND DEMISE (5733)
Decker, K. L.; Goosaty, C. J.; SEASONAL DECLINE IN CLUTCH SIZE: A TEST OF SIX ALTERNATIVE HYPOTHESES (5755)

**2:45 p.m.**
Boughton, R. K.; Bowman, R.; Schoen, S. J.; Bridge, E. S.; Pruett, M. S.; Fitzpatrick, J. W.; WEATHER PATTERNS AND LAYING DATE IN FLORIDA SCRUB-JAYS (APHELOCOMA COERULESCENS) (5949)
Dogato, P.; Navia, A.; INTERACTIONS BETWEEN LOGGING, FIRE AND THEIR EFFECTS ON THE DYNAMICS OF A KEYSTONE PRIMARY EXCAVATOR IN THE EASTERN BOREAL FOREST OF NORTH AMERICA (6217)
Burland, M. H.; Lark, D. B.; Lacov, R. B.; MATING SYSTEM AND BREEDING ECOLOGY OF THREE KEYS ENDANGERED TROPICAL SEDENTARY SHOREBIRD IN A SATURATED HABITAT (5899)
Pardal, J.; Still, J. W. M.; Moriarty, D. J.; THE MATING SYSTEM OF THE YELLOW-FACED GRASSQUIT (5746)

**3:00 p.m.**
Sherry, T. W.; Henry, D. R.; Michel, N. L.; THE IMPORTANCE OF FOOD TO HABITAT SUITABILITY (6088)
Hargrove, L.; Bonenberg, J. T.; LOCAL-SCALE STRUCTURE, DYNAMICS, AND ENVIRONMENTAL CORRELATES OF BREEDING BIRD DISTRIBUTION MARGINS ALONG A DESERT GRADIENT UNDERGOING RAPID CLIMATE CHANGE (6174)
Valdez, U.; THE DISTRIBUTION AND RELATIVE ABUNDANCE OF FIVE SPECIES OF FOREST-FALCONS IN SE PERUVIAN AMAZONIA (6178)
Ridgway, C.; REPRODUCTIVE BIOLOGY AND MATING SYSTEM OF THE GREATER ANI (Crotophaga Major), A COMMUNAL BREEDING NEOTROPICAL CUCKOO (5740)
Pardal, J. L.; DOES CLUTCH SIZE DECREASE WITH INCREASING ELEVATION? (5721)

**3:15 p.m.**
LaManna, J. A.; Wolle, J.; George, T. L.; Ralph, C. J.; Alexander, J.; EFFECTS OF LOCAL CLIMATE CYCLES ON INTERANNUAL SURVIVAL OF A MIGRATORY FLYING ROOM (6122)
Cockle, K.; Martin, K.; HIGHGRAD LOGGING AND NEST-SITE LIMITATION IN CAVITY-NESTING BIRDS OF A THREATENED SPECIES IN THE TIBERIAN REGION OF ECUADOR (5859)
Freed, L.; Caven, R.; Diller, K.; SEASONAL VARIATION IN SEX ALLOCATION IN THE HAWAII AKEPA: ADAPTATION AND DEMISE (5733)
Telford, S. A.; Stutchbury, B. J.; Kunnap, P.; M. Tuin, I.; PARENTAL HYBRIDIZATION IN PURPLE MARTINS: FEMALES PREFER OLDER MALES (5857)
Murray, B. G.; Ford, N. L.; THE EVOLUTION OF SEASONAL VARIATION IN CLUTCH SIZE (5672)

^ Indicates a Young Professional Award Candidate.
## MONDAY LATE-AFTERNOON PRESENTATIONS

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<td>MONTAGE - AFTERNOON PRESENTATIONS</td>
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<td>Bloom, P. M.; Clark, R. G.; Howerton, D. W.; OFFSPRING SURVIVAL CONSEQUENCES OF HABITAT SELECTION: A MULTI-SCALE EVALUATION IN A PRESOCIAL SPECIES. (5975)</td>
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<td>Sauer, J. R.; Anders, B.; Borer, J. B.; Burcher, C.; Pathley, D.; Rosenberg, K. V.; Niven, D. K.; VULNERABILITY OF NORTH AMERICAN BIRDS TO CLIMATE CHANGE (6053)</td>
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<td>Kennedy, P. L.; Foresman, J. B.; FIRE IN NORTH AMERICAN DRY FORESTS: A META-ANALYSIS OF AVIAN RESPONSES TO SEVERITY, TIME SINCE FIRE, AND FIRE SURROGATE TREATMENTS. (5998)</td>
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<td>Stanley, C. Q.; CONSEQUENCES OF WINTER HABITAT OCCUPANCY: THE STRESS RESPONSE IN WOOD THRUSH IN PRIMARY AND SECONDARY FOREST (5997)</td>
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<td>Sonsthagen, S. A.; Talbot, S. L.; Sage, G. K.; Wilson, R. E.; IDENTIFICATION OF SOURCE–SINK POPULATION DYNAMICS IN A METAPOPULATION OF NORTHERN GOSHAWKS OF THE ALEXANDER ARCHIPELAGO (6042)</td>
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<td>Toomey, M. B.; McGrew, K. J.; DIETARY CAROTENOIDS AFFECT COLOR VISION-BASED FORAGING IN THE HOUSE FINCH (6071)</td>
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<td>4:15 p.m.</td>
<td>Fontaine, J. J.; Garnes, L. Z.; Decker, K. L.; Skagen, S. K.; van Riper, C.; UNDERSTANDING HABITAT SETTLEMENT CUES FOR MIGRATORY BIRDS IN LIGHT OF CHANGING CLIMATES (5791)</td>
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<td>Niven, D. K.; Burcher, G. S.; Buncroft, G. T.; Sauer, J. R.; DISTRIBUTIONAL CHANGES IN THE CENTER OF ABUNDANCE OF NORTH AMERICAN BIRDS IN RELATION TO CLIMATE CHANGE (6216)</td>
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<td>Esmerit, J. L.; Bednurt, J. C.; THE EFFECTS OF PRESCRIBED BURNS ON VEGETATION AND SWAINSON'S WARBLER SPATIAL USE IN ST. FRANCIS NATIONAL FOREST, ARKANSAS. (5881)</td>
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<td>Gibbons, R. E.; HABITAT ASSOCIATIONS AND SEASONALITY EFFECTS FOR BIRDS OF THE HIGH AND FEETLANDS OF CENTRAL AND SOUTHERN PERU. (6134)</td>
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<td>Jesper, M. A.; Hall, A. C.; Hall, J. M.; Seigal, R. N.; IDENTIFYING MIGRATORY PATTERNS OF RED-TAILED HAWKS IN CALIFORNIA USING GENETIC, STABLE ISOTOPE AND HAEMOPARASITE DATA (5769)</td>
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<td>4:30 p.m.</td>
<td>Schmidt, K. A.; Emmering, Q. C.; Whelan, C. J.; HABITAT SELECTION IN AN UNCERTAIN WORLD: PRIVATE AND PUBLIC INFORMATION AND THE INFORMED BIRD (5999)</td>
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<td>Tingley, M. W.; Besinger, S. R.; AVIAN ELEVATIONAL SHIFTS FOLLOWING 100-YEARS OF CLIMATE CHANGE IN CALIFORNIA'S SIERRA NEVADA MOUNTAINS (6167)</td>
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<td>Herkert, J. R.; Glass, W. D.; A LONG-TERM STUDY OF PRESCRIBED FIRE EFFECTS ON HENSLOW'S SPARROW IN ILLINOIS (5765)</td>
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<td>Jankowski, J. E.; Robinson, S. K.; Loey, D. J.; SQUEEZED AT THE TOP: INTERSPECIFIC AGGRESSION CONSTRAINS ELEVATIONAL RANGES IN BIRDS OF COSTA RICA (6194)</td>
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<td>Acker, H. M.; Sekercioglu, C. H.; Mendenhall, C.; Seigal, R. N.; EFFECT OF FOREST FRAGMENTATION ON THE PREVALENCE OF BLOOD PARASITES IN BIRDS OF COSTA RICA (6164)</td>
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<td>4:45 p.m.</td>
<td>Rosemartin, A. H.; The USA-NEP Development Team; PHENOLOGY MONITORING ACROSS TACK TO TRACK RESPONSE TO CLIMATE CHANGE IN CALIFORNIA'S SIERRA NEVADA MOUNTAINS (5872)</td>
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<td>Thorisaur, S.; Hache, A. H.; Villard, M.; EFFECTS OF PARTIAL HARVESTING ON HABITAT SELECTION PATTERNS IN A FOREST WARRIOR (6104)</td>
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<td>Cooper, D. S.; Bell, D. A.; USING RAPID ASSESSMENT OF FOREST BIRDS TO COMPARE CONSERVATION POTENTIAL OF COFFEE FARMS: EXAMPLES FROM CENTRAL AMERICA (5815)</td>
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<td>Whalen, D. K.; Soderp, S. K.; Lnien, M. A.; Disregared, C.; HEMOSPORIDIAN PARASITE DIVERSITY AND PREVALENCE ACROSS AN ALTITUDINAL GRADIENT IN PERU (6095)</td>
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<td>Augustine, J. K.; BEHAVIOR, VOCALIZATIONS AND EVOLUTIONARY IMPLICATIONS OF HYBRID GREATER PRAIRIE-CHICKENS AND SHARP-TAILED GROUSE (TYPHANUS SPP.) IN SOUTHWESTERN MINNESOTA (6146)</td>
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<tr>
<td>8:00 a.m.</td>
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<td>Plenary Session - <strong>Golden Ballroom</strong>: Welcome &amp; Announcements, COS Awards, Plenary Address: Ken Dial, “Ecological and evolutionary significance of the locomotor development in Birds”</td>
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<td>9:30 a.m.</td>
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<td>10:00 a.m.</td>
<td>Session 1</td>
<td>Golden Ballroom</td>
<td>S02 Tri-national Bird Conservation: Ken Rosenberg, Andrew Couturier, Humberto Berlanga, Peter Randher &amp; Terry Rich</td>
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<td>G06 Breeding Biology and Parental Care: 1. Chiver</td>
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<td>S12 Avian Immunity: Resilience in the Face of Emerging Zoonoses and Climate Change: Caldwell Hahn</td>
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<td>G18 Molecular Ecology: M. Mika</td>
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<td>G46 Nesting Habitat: B. Linkhart</td>
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<tr>
<th>Room</th>
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Lunch on your own
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<th>Time</th>
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<tbody>
<tr>
<td>200 p.m.</td>
<td>Pratts, T. K.</td>
<td>WHAT’S HAPPENING TO HAWAIIAN BIRDS? (5677)</td>
<td>Dolahs, K. M.; Davis, S. K.; Brigham, R. M.; SPRAGUE'S PIPI T STILT NESTLING PROVISIONING RATES IN PLANTED AND NATIVE GRASSLANDS: IMPLICATIONS FOR HABITAT CONSERVATION (5841)</td>
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<tr>
<td>215 p.m.</td>
<td>Freifeld, H. B.</td>
<td>A PROGRESS REPORT ON RECOVERY EFFORTS FOR HAWAIIAN LISTED AND CANDIDATE SEABIRDS. (6224)</td>
<td>Schuetz, J. G.; Whatfield, M. J.; EFFECTS OF FOOD AVAILABILITY ON REPRODUCTIVE SUCCESS AND SURVIVAL IN THE FEDERAVERBLY ENDANGERED SOUTHWESTERN WILLLOW FLYCATCHER (LEPIDORHYNUS TRAILLII EXTIMUS) (5979)</td>
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<td>230 p.m.</td>
<td>Reynolds, M. H.; Bregg, K. W.</td>
<td>A SUCCESSFUL TRANSLOCATION + POPULATION ESTABLISHMENT + POPULATION PERSEVERANCE: CHALLENGES AFTER THE SUCCESSFUL RINtroduction OF LOSSANTAN 6688</td>
<td>Macias-Duarte, A.; Culver, M.; CHANGE IN MIGRATORY BEHAVIOR AS A POSSIBLE EXPLANATION FOR BURROWING OWL DISTRIBUTIONAL CHANGES IN NORTH AMERICA (5857)</td>
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<td>245 p.m.</td>
<td>Fretz, J. S.</td>
<td>HABITAT MANAGEMENT FOR HAWAIIAN BIRDS: VISION, CHALLENGES, AND APPROACH (6249)</td>
<td>Moore, J. R.; Weisk, J. T.; MOON, J. T.; THE EFFECTS OF SUPPLEMENTAL FEEDING ON REPRODUCTIVE ACTIVITY IN THE PROTONORTUDD WARBLER (5600)</td>
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<td>300 p.m.</td>
<td>Ligon, R. A.; Hill, G. E.; FEEDING SEXES SOMETIMES: FEEDING DECISIONS OF EASTERN BLUEBIRDS ARE SITUATIONALLY INFLUENCED BY FEEDING PLUMAGE COLOR (5813)</td>
<td>Szekereszulg, C. H.; BIRD FUNCTIONAL DIVERSITY IN TROPICAL FOREST AND AGRICULTURAL ECOSYSTEMS (5857)</td>
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<td>315 p.m.</td>
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</table>
| Session | Room | Panel | Title | Abstract
|----------|------|-------|-------|-------------------
| 4:00 p.m. | S01 Saving Hawaii’s Birds | T. Rauch | G41 Life History - Incubation | Effects of Urban Noise on Avian Song (5785)
| 4:15 p.m. | S05 Birds and Ecosystem Services | Daniel Wenny & Christopher Wheaton | G09 Migration and Stopover Biology | Evolutionary Dynamics of a Sky Island Contact Zone (5678)
| 4:30 p.m. | Session | Room Windsor/Amphion | Golden Ballroom | Pacific Salon 1 | Pacific Salon 2 | Pacific Salon 3
| 4:45 p.m. | S01 Saving Hawaii’s Birds | T. Rauch | G41 Life History - Incubation | Effects of Urban Noise on Avian Song (5785)
| 5:00 p.m. | Session | Room Windsor/Amphion | Golden Ballroom | Pacific Salon 1 | Pacific Salon 2 | Pacific Salon 3
| 5:15 p.m. | Session | Room Windsor/Amphion | Golden Ballroom | Pacific Salon 1 | Pacific Salon 2 | Pacific Salon 3

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## WEDNESDAY MORNING PRESENTATIONS

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<tr>
<td>8:00 a.m.</td>
<td><strong>Plenary Session - Golden Ballroom</strong> Welcome &amp; Announcements, SCO Awards, Plenary Address: Kathy Martin, “The World Wide Nest Web: how excavators and decay shape cavity nesting bird communities”</td>
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<td>9:30 a.m.</td>
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<td>10:00 a.m.</td>
<td><strong>S11 Yellow-billed Cuckoo Biology and Conservation in the Western United States</strong> H. Walker &amp; Mart Johnson</td>
<td>Golden Ballroom</td>
<td>G19 Conservation and Population Biology T. Benson</td>
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<td></td>
<td><strong>S08 Marine Birds</strong> Enriqueta Velarde, Daniel Anderson, Exequiel Escudero &amp; William Sydeman</td>
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<td>G28 Phylegenetics and Phylogography T. Wright</td>
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<td></td>
<td><strong>G31 Ornithology</strong> D. Cooper</td>
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<td>G50 Plumage Patterns and Variation M. Shuekley</td>
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<td>10:15 a.m.</td>
<td><strong>Halterman, M. D.; Oring, L. W.; Parental care in the yellow-billed cuckoo telemetry at riparian restoration sites on the lower colorado river, 2009. (6066)</strong></td>
<td>Windsor/Manor</td>
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<td>10:30 a.m.</td>
<td><strong>McNeill, S. E.; Tracy D.; Rose, E.; The shifting mosaic of yellow-billed cuckoo habitat on the sacramento river. (6259)</strong></td>
<td>Golden Ballroom</td>
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<tr>
<td>10:45 a.m.</td>
<td><strong>Green, S. E.; The shifting mosaic of yellow-billed cuckoo habitat on the sacramento river. (6259)</strong></td>
<td>Golden Ballroom</td>
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<td>11:00 a.m.</td>
<td><strong>Hammond, J. E.; Silverton, J.; Hatfield, C.; Habitat characteristics of yellow-billed cuckoo in restored riparian forests on the sacramento river, california. (6131)</strong></td>
<td>Golden Ballroom</td>
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<td>Patron, R.; Valdez, E.; ELEGANT</td>
<td>Smith, B. T.</td>
<td>Rock, C. A.; Green, D. J.; OLDER</td>
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<td>TERM Colonies in Gulf of California and California Current Sites, Influence of Oceanographic Events in Size and Composition</td>
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<td>BUT NO WISER: THE IMPACTS OF BROWN-HEADED COWBIRD BROOD PARASITISM ON THE BREEDING PERFORMANCE OF FEMALE YELLOW WARBLERS</td>
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<td>Preservation and Landuse Changes Within the Southern California Range of the California Condor</td>
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<td>11:45 am.</td>
<td>Beason, J. P.; Kerr, K. J.</td>
<td>Boyer, A. G.; Moore, H. E.; Grant Mackie; J. A.</td>
<td>Casas, M.; Encura, E.</td>
<td>Shinka, D. B.; Lyon, B. E.; CDOT USE-HATCH ORDER TO LEARN TO RECOGNIZE AND REJECT CONSPECIFIC BROOD PARASITIC CHICKS</td>
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<td>WESTERN YELLOW-BILLED CUCKOOS IN COLORADO</td>
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<td>12:15 p.m.</td>
<td>Goodman, R. E.; Teary, N. E.; Gadzhieva, T.; Lebich, J.</td>
<td>Body Size Changes Over 38 Years in Coastal California</td>
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<td>2:00 p.m.</td>
<td>Fauberg, J.;</td>
<td>G23 Population</td>
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<td>Teens, J. D.;</td>
<td>Biology - Survival</td>
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<td>Dugger, K. M.;</td>
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<td>DeSante, D. E.;</td>
<td>G20 Breeding Biology and Behavior</td>
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<td>r is an Important Driver of Population Declines in Migratory Landbirds (5981)</td>
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<td>Edace, J. M.;</td>
<td>Breeding Passerines Assess Nest Predation Risk Through Eavesdropping: An Interspecific Comparison (5716)</td>
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<td>Ralph, C. J.;</td>
<td>Breeding Passerines Assess Nest Predation Risk Through Eavesdropping: An Interspecific Comparison (5716)</td>
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<td>Jones, C. J.;</td>
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<td>Survival and Movement Characteristics of a Marked Population of Bachman’s Sparrow (5957)</td>
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<td>The Role of Parents in Shaping Patterns of Avian Nest Predation Risk (5780)</td>
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<td>Rube, D. L.;</td>
<td>Boreal Forest Songbirds Do Not Alter Their Nest Visitation Behavior in Response to Variable Predation Risk (6197)</td>
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<td>Multi-Scale Habitat Characteristics of Shorebirds During Spring Migration in Southern Louisiana (5892)</td>
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<td>Inferring Phylogeny and Demographic History Across Multiple Avian Lineages from Hispaniola (5830)</td>
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<td>Official, S.;</td>
<td>Evidence for the Species Status of the Bahama Yellow-Thrilled Warbler (Dendroica) (6190)</td>
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<td>Occurrence of Bachman’s Sparrow in a Post-Hurricane, Salvaged-Logged Forest (5680)</td>
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<td>Individual Variation in Songs of the Mangrove Warbler (Dendroica petechia) Castaneiceps from Baja California Sur, Mexico (5996)</td>
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^ Indicates a Young Professional Award Candidate.
**WEDNESDAY LATE-AFTERNOON PRESENTATIONS**

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<tr>
<td>400 p.m.</td>
<td>Arcese, P.;</td>
<td>Contributions to Population Growth in Song Sparrows (6161)</td>
<td>Manz, N.; Isaacs, L.; Critchley, S. C.</td>
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<td>Norms, D. R.;</td>
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<tr>
<td>4:00 p.m.</td>
<td>Arcese, P.;</td>
<td>Revisiting the Nesting Ecology of Western Grebes after 40 Years of</td>
<td>LaPine, N.; Kope, N.;</td>
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<td>Norris, D. R.;</td>
<td>Changes at Delta Marsh, Manitoba (5679)</td>
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<td>415 p.m.</td>
<td>MacBroom, C. S.;</td>
<td>TRENDS AND POWER ANALYSIS OF A LONG-TERM BOREAL BIRD STUDY IN NORTHERN CANADA (6165)</td>
<td>Bednarz, J. C.; Fauth, J.;</td>
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<td>Documenting Nesting Activity and Causes of Nesting Failure in Mississippi Kites Using Video Recording Systems (5787)</td>
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<td>MacPherson, M.;</td>
<td>Nesting in Wood Thrushes (Hylocichla Mustelina) Carry-Over Effects into Breeding Season (5864)</td>
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<td>Storch, D.</td>
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<td>4:30 p.m.</td>
<td>Reiley, B. M.;</td>
<td>Flood Effects on Swainson's Warbler in Bottomland Hardwood Forest in Eastern Arkansas (5828)</td>
<td>Bednarz, J. C.; Fauth, J.;</td>
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<td>Bednarz, J. C.;</td>
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<td></td>
<td>Habitat Change and Long-Term Decline in Recruitment of Brant (5959)</td>
<td>Hill, B. L.; Hunter, C. M.; Lecot, R. B.; Does Successful Nesting by Arctic-Breeding Dunlin (Calidris Alpina) Affect Reproduction? (5673)</td>
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<tr>
<td>4:45 p.m.</td>
<td>Sedinger, J. S.;</td>
<td>Geographic Variation of Hermit Warbler Type I Songs in Northern California (5874)</td>
<td>Sodergren, C. A.; Sodergren, J. S.; Ward, D. M.; Morrison, S. A.;</td>
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<td>Nicola, C. A.;</td>
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<td>Van Dellen, A. W.;</td>
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<td>Predation, Landscape Change and Long-Term Decline in Recruitment of Brant (5679)</td>
<td>Van Dellen, A. W.;</td>
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<td>5:00 p.m.</td>
<td>Ortega, C. P.;</td>
<td>The Effects of Burn Severity on the Response of Riparian Birds and Vegetation to Catastrophic Wildfire (5850)</td>
<td>Ortega, C. P.;</td>
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<td>Ortega, J. C.;</td>
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<td>Age structure in a Population of Brown-Headed Cowbirds in Southwest Colorado (5808)</td>
<td>Ortega, J. C.; Ortega, C. P.;</td>
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<td>Benson, T. J.;</td>
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<td>Brown, J. D.;</td>
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### THURSDAY MORNING PRESENTATIONS

**8:00 a.m.**  
Plenary Session - Golden Ballroom: Welcome & Announcements, Plenary: COS Young Professional Award Finalists, Keynote Address: Renée Duckworth, “An Evolutionary Perspective on Avian Range Expansion”

| 9:45 a.m. | Break |

#### 10:00 a.m.
**S06 Advances in Shorebird Conservation**  
Roy Churchwell, Abby Powell & Stephen Brown

<table>
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<tr>
<th>Golden Ballroom</th>
<th>Sunset</th>
<th>Pacific Salon 1</th>
<th>Pacific Salon 2</th>
<th>Pacific Salon 3</th>
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</table>
| **G51**: Disease, Parasites, Immunity  
G. Hill | **G07** Rusty Blackbird: Range-Wide Perspective on a Short-Distance Migrant in Decline  
P. Hamel | **G30** Biogeography  
D. Swanson | **G38** Grasslands and Grazing  
O. Richmond | **G40** Hormones and Immunology  
J. Adelman |

#### 10:15 a.m.
**Schubke, A. S.; Simone, T. R.; Factors Affecting the Reproductive Success of American Oystercatchers in North Carolina** (6005)

#### 10:30 a.m.
**Nol, C. E.; Williams, S.; Sanderson, B.; Natal Philopatry and Apparent Survival of Juvenile Semipalmated Plovers** (5676)

#### 10:45 a.m.

#### 11:00 a.m.
**Lanciot, R. B.; Brown, S.; Sanderson, B. K.; Arctic Shorebird Demography: Network Understanding the Mechanisms Behind Shorebird Declines** (5982)

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### Thursday Late-Morning Presentations

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<td>G51</td>
<td>Golden Ballroom</td>
<td><strong>S07 Rusty Blackbird: Range-Wide Perspective on a Short-Distance Migrant in Decline</strong>&lt;br&gt;<strong>Presentation by Paul Hamel</strong></td>
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<td>S06</td>
<td>Pacific Salon 1</td>
<td><strong>G30 Biogeography</strong>&lt;br&gt;D. Swanson&lt;br&gt;O. Richmond &amp; N. Koper&lt;br&gt;<strong>Shorebird Conservation</strong>&lt;br&gt;<strong>Presentation by Roy Churchwell</strong></td>
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<td>S08</td>
<td>Pacific Salon 2</td>
<td><strong>G38 Grasslands and Grazing</strong>&lt;br&gt;O. Richmond &amp; N. Koper&lt;br&gt;<strong>Grasslands and Grazing</strong>&lt;br&gt;<strong>Presentation by Doug Swanson</strong></td>
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<td>S09</td>
<td>Pacific Salon 3</td>
<td><strong>G49 Physiology and Energetics</strong>&lt;br&gt;R. Holberton&lt;br&gt;<strong>Physiology and Energetics</strong>&lt;br&gt;<strong>Presentation by Roy Churchwell</strong></td>
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<td>11:15 a.m.</td>
<td>S06</td>
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<td><strong>S07 Rusty Blackbird: Range-Wide Perspective on a Short-Distance Migrant in Decline</strong>&lt;br&gt;<strong>Presentation by Paul Hamel</strong></td>
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<td>11:30 a.m.</td>
<td>S08</td>
<td>G30</td>
<td><strong>G30 Biogeography</strong>&lt;br&gt;D. Swanson&lt;br&gt;O. Richmond &amp; N. Koper&lt;br&gt;<strong>Shorebird Conservation</strong>&lt;br&gt;<strong>Presentation by Roy Churchwell</strong></td>
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<td>11:45 a.m.</td>
<td>S09</td>
<td>G38</td>
<td><strong>G38 Grasslands and Grazing</strong>&lt;br&gt;O. Richmond &amp; N. Koper&lt;br&gt;<strong>Grasslands and Grazing</strong>&lt;br&gt;<strong>Presentation by Doug Swanson</strong></td>
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<td>12:00 noon</td>
<td>S06</td>
<td>G51</td>
<td><strong>S07 Rusty Blackbird: Range-Wide Perspective on a Short-Distance Migrant in Decline</strong>&lt;br&gt;<strong>Presentation by Paul Hamel</strong></td>
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<td>12:15 p.m.</td>
<td>S08</td>
<td>G30</td>
<td><strong>G30 Biogeography</strong>&lt;br&gt;D. Swanson&lt;br&gt;O. Richmond &amp; N. Koper&lt;br&gt;<strong>Shorebird Conservation</strong>&lt;br&gt;<strong>Presentation by Roy Churchwell</strong></td>
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<td>S09</td>
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<td>200 p.m.</td>
<td>Golden Ballroom</td>
<td>Captive Breeding, Release, Monitoring, and Conservation Planning</td>
<td>R. Sprague</td>
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<td><strong>G11</strong></td>
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<td>Francis, C. M.; Campbell, M.; CAN MICROPHONES AND RECORDERS HELP EXPAND COVERAGE OF THE BREEDING BIRD SURVEY? (6246)</td>
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<tr>
<td>215 p.m.</td>
<td>Sunrise</td>
<td>Captive Breeding and Release of Loggerhead Shrikes in South Eastern Ontario: Insight into a Challenging and Complex Conservation Initiative (5797)</td>
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<td>Savard, J. L.; Taintong, K.; Steiner, J. L.; Williams, E.; Chabot, A.; Bed, D. M.</td>
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<td>230 p.m.</td>
<td>Pacific Salon 1</td>
<td>Habitat Relationships of Species of Concern</td>
<td>J. Carlisle</td>
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<td>Nolte, E. G. ; Heath, J. A.; Kaltenecker, G. S.</td>
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<td>245 p.m.</td>
<td>Pacific Salon 2</td>
<td>Reintroduction of Island Scrub-Wraps to Santa Rosa Island, California: An Opportunity for Proactive Species Management and Restoration of an Insular Ecosystem (6169)</td>
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<td>Sillett, T. S.; Roule, J. A.; Morrison, S. A.</td>
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<td>Evaluation of an Unlinked Acoustic Localization System: Measuring Distance of Individual Songbirds From an Observer During a Point Count. (6019)</td>
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<td>Campbell, M.; Francis, C. M.; Fogg, A. M.; Roberts, I. J.; Is Call-Playback Necessary to Monitor Hairy Woodpecker and Mountain Quail in the Sierra Nevada? (6168)</td>
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<td>300 p.m.</td>
<td>Pacific Salon 3</td>
<td>Influence of Long-Term Captive Breeding on the Biology of the American Kestrel (5742)</td>
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<td>Boles, L.; Bird, D. M.</td>
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<td>Estimating Species Detection Probabilities in the South Dakota Breeding Bird Atlas. (6108)</td>
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<td>315 p.m.</td>
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<td>What Limits the Accuracy of an Acoustic Location System (5898)</td>
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<td>Krakauer, A. H.; Putt, J.; Petticoall, G. L.</td>
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<td>Farrell, S. L.; Ut, A. C.; Harvey, N. C.; Huyser, W. K.; Factors Associated with Behavioral Problems and Survival Following Release of Captive-Reared California Condors (5698)</td>
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<td>315 p.m.</td>
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<td>Use of Social Information for Habitat Selection in Golden-Cheeked Warblers (6161)</td>
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## Thursday Late-Afternoon Presentations

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<tr>
<td>415 p.m.</td>
<td>Underwood, J. G.; Casey, M.; The San Diego County Multiple Species Habitat Conservation Plan: How Well Are We Protecting Avian Species? (5710)</td>
<td>Bart, J. R.; Dunn, L.; Sampling Large Landscapes (6256)</td>
<td>Laughlin, A. J.; Alkire, F. J.; Hermit Thrush (Catharus guttatus) and Veery (C. fuscescens) Breeding Habitat Associations in Southern Appalachian Spruce-Fir Forests (5965)</td>
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<td>515 p.m.</td>
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POSTER PRESENTATIONS

Posters will be on display in the Exhibit Hall throughout the meeting. There will be an evening poster reception on Tuesday, 9 February from 7:00-10:00 p.m., when presenters will be available to discuss their work. Poster set-up begins at noon on Sunday; posters must be removed from the Exhibit Hall by Thursday between 3:30-5:30 p.m.

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Our Smithsonian Migratory Bird Center (SMBC) ‘Bird Friendly’® certification means that Birds & Beans® coffee is 100%-organic shade-grown, ensuring the conservation of migratory bird habitat in Latin America. Tanagers, thrushes, orioles, warblers, oven-birds and other wonderful birds nesting in North America find sanctuary in the rustic canopy, tropical forest-like environments of family coffee farms that carry the SMBC certification. Sun grown coffee – genetically modified and heavily dependent on chemical fertilization, pesticides and herbicides – adds to the destruction of critical bird habitat in Latin America. ‘Birds & Beans the good coffee’™ is part of the solution. We want to help add thousands of hectares of shade grown, organic coffee habitat to the farms already producing a truly sustainable and environmentally responsible crop. Every bean in every bag of Birds & Beans is ‘triple certified’.

Launching in the US in January 2009 with events in Bedford NY and at Audubon in Greenwich CT, we have given a series of Birds & Beans Talks throughout New England and New York, events featuring Kenn, Bridget Stutchbury and Scott Weidensaul. We will be extending our Birds & Beans Talks program in 2010.

Birds & Beans® is the only coffee brand west of the Mississippi, and one of the very few in the entire country, which solely roasts 'Bird Friendly'® certified beans. We roast and sell Smithsonian Migratory Bird Center certified coffee. Three of our roasts are Fair-Trade, the fourth is Rainforest Alliance and all are USDA Organic certified. Great for birds, people, the Earth. Great tasting coffee too.

Conservation partners: Massachusetts Audubon Society, Orange County (NY) Audubon Society, Vermont Center for Ecostudies, North Branch Nature Center (VT), New Hampshire Audubon Society

Product Information
- **Scarlet Tanager, French Roast**, from Peru coops. Grown on the eastern slopes of the Northern Andean Forest. Fair-Trade, USDA Organic, Smithsonian Migratory Bird Center ‘Bird Friendly’® certifications
- **Chestnut-sided Warbler, Viennese Roast**, from Colombia. Coffee grown 100% ecologically, as it was 100 years ago, protecting nature, with no chemicals, using natural fertilizers and spring water, and under shade on high altitude. Only SMBC ‘Bird Friendly’ coffee from Colombia. Organic, Smithsonian Migratory Bird Center ‘Bird Friendly’®, USDA Organic and Rainforest Alliance certifications.
- **Wood Thrush, Breakfast Roast**, is grown on coop farms. Fair-Trade, USDA Organic and Smithsonian Migratory Bird Center ‘Bird Friendly’® certifications
- **Baltimore Oriole, French Roast Decaf**, a Smithsonian Migratory Bird Center certified ‘Bird Friendly’ coffee which is also USDA Organic and Fair-Trade certified

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