

5th North American Ornithological Conference

UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER
14 – 18 AUGUST, 2012



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VANCOUVER 2012 • FROM SEA TO SKY

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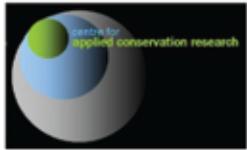
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“From Sea to Sky” Designed by Derek Tan	Front Cover
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Greetings to all NAOC-V Attendees - Welcome to Canada



We are delighted that you have chosen to attend the largest meeting of ornithologists ever to be held in Canada. On behalf of the Steering Committee for the nine societies involved in organizing the 5th North American Ornithological Conference (NAOC-V), and the Local Organizing Committee, I enthusiastically welcome you to Canada and to the University of British Columbia for what will be an exciting and well-attended meeting. Our expectation is that by convening with so many colleagues to share ideas and expertise, we will strengthen the science and the practice of ornithology in the Americas, and also forge many new research collaborations and friendships.

Over 1,400 participants from 25 countries will assemble under the NAOC-V banner for 4 days of intensive scientific exchange. Participants will address the key ornithological challenges for birds in the Western Hemisphere and take home a more complete understanding of the key issues and questions. We offer opportunities ranging from plenary talks summarizing topics of general relevance, to hands-on techniques workshops, student mentoring programs and field trips. The core scientific content of the meeting will be research presentations on the most recent advances in all aspects of ornithology, including conservation and management, and learning effective communication through the scientific press and the popular media.

From time immemorial, humans have been fascinated and inspired by birds. Our conference theme, From Sea to Sky, and our logo reflect the fact that birds inhabit an incredible diversity of habitats around the globe -- from the open ocean to altitudes higher than the highest mountains and all intermediary habitats. Bird flight also shapes avian conservation initiatives as many birds have an annual cycle that encompasses both Northern and Southern continents, and depend on combinations of northern, temperate and tropical habitats for survival. For example, only 22% of Canadian bird species spend the whole year in Canada. To preserve whole communities of birds, cooperation among ornithological societies, and collaboration between scientists and practitioners across political and institutional boundaries is an imperative. In 1994, NAOC emerged to meet such challenges, and the first four meetings were a huge success.

We extend a special welcome to students, particularly to those attending a large meeting for the first time. NAOC-V has a jam-packed program of scientific and social opportunities for students to meet peers and potential mentors. Our NAOC-V Student Committees have been particularly active and we encourage students to participate in one or several of the student events offered.

FUN will be an essential ingredient to NAOC-V!! We have a full slate of social activities that will exercise your brain, brawn, birding and bidding skills. We invite you to hob-nob at the opening reception, relish the banquet, dance your way through the bird band jam, compete in the softball tournament or All Out Ostrich 5K Race, test your bird knowledge in the Quiz bowl, and take home a souvenir from the Silent Auction.

We have been organizing NAOC-V since 2007 and we hope that you enjoy the experience.
Have a Great Conference!!

Kathy Martin, Chair
NAOC-V 2012

Logo Design:

The NAOC-V logo represents ornithology, shaped by science but inspired by curiosity, nature and art. The harmonies and shifting symmetries of our mystical 'vitruvian' bird symbolizes all birds "from sea to sky", from the grace of a gull to the silhouette of a raptor. The metaphor continues with the subtle outline through the lettering representing the waves and mountains that will welcome NAOC-V participants to Vancouver, British Columbia, Canada.

Conceived from a whimsical derivation of Leonardo da Vinci's iconic 'Vitruvian Man' by Bob Elner, Rob Butler and graphically realized by Derek Tan, UBC.

Conference Program Cover & Public Lecture Poster designed by Derek Tan, UBC.

CONFERENCE ORGANIZERS & COMMITTEES

NAOC-V Conference Chair

Kathy Martin

NAOC V Steering Committee (SC)

Kathy Martin (Chair), Environment Canada & University of British Columbia
Erica Nol (Latin American Participation), Society of Canadian Ornithologists
Peter Davidson (Field Trips), Bird Studies Canada
Kimberly Smith (Finance Committee), American Ornithological Union
Lee Robinson (Society Meeting Requests), Association of Field Ornithologists
Katherine Renton (Latin American Participation), CIPAMEX
Kim Sullivan (Scientific Program Liaison), Cooper Ornithological Society
Libby Mojica (Student Affairs), Raptor Research Foundation
Robert Curry (Student Presentation Awards), Wilson Ornithological Society
Bob Elner (Chair, Local Organizing Committee), Waterbird Society

Local Organizing Committee

Kathy Martin (Conference Chair)
Robert Elner (LOC Chair)
Andrea Norris
David Toews
Erin Gendron
Lee Robinson
Mark Drever
Nancy Mahony
Peter Arcese
Peter Davidson
Shelagh Bucknell
Wendy Easton

Student Activities & Affairs Committee

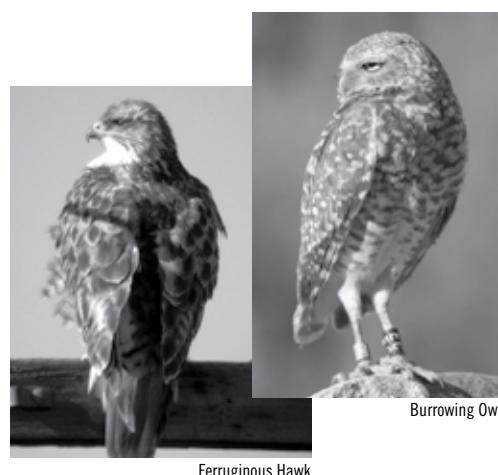
Andrea Norris (Co-chair)
Stephanie Wright (Co-chair)
Libby Mojica (SC Liaison)
Nick Block
Melanie Colon
Vivien Chua
Kim Dohms
Tyler Flockhart
Ryan Germain
Nicholas Mason
Laura Stewart

NORTH AMERICAN GRASSLANDS

Less than 20 percent of North America's native grasslands remain intact and less than three percent lies within protected areas.

The CEC cooperates with Canada, Mexico and the United States to use birds as a key indicator of overall grasslands health through a variety of approaches:

- **Beneficial management practices** that include bird conservation
- **Ongoing bird monitoring** in the Chihuahua Desert Grasslands in Mexico
- **North American Conservation Action Plans** (NACAPs) for two species: Burrowing Owl (*Athene curicularia*) and Ferruginous Hawk (*Buteo regalis*)
- **Support for bird monitoring capacity** through the CEC-initiated North American Bird Conservation Initiative (NABI)



Ferruginous Hawk

Burrowing Owl

For more information about the CEC's Grasslands project, contact:

Karen Richardson, Program Manager, at **krichardson@cec.org**, **514 350-4326**
For the complete project description, see: www.cec.org/grasslands



Field Trip Committee

Peter Davidson (Chair) Bird Studies Canada
Rob Butler, Bird Studies Canada and Pacific Wildlife Foundation
Dick Cannings, Bird Studies Canada
George Clulow, BC Field Ornithologists
Larry Cowan, BC Field Ornithologists
Rod MacVicar, Pacific Wildlife Foundation
Wayne Weber, BC Field Ornithologists

Finance Committee

Erica Dunn (Chair)
Kimberly Smith (SC Liaison)
Pierre LaMothe

Fund-Raising Committee

Kathy Martin (Chair)
Wendy Easton
Elsie Krebs

Latin American Participation

Katherine Renton (Chair), Sociedad para el Estudio y Conservación de las Aves en México (CIPAMEX) / Universidad Nacional Autónoma de México
Erica Nol (Steering Committee Liaison), Society of Canadian Ornithologists / Trent University, Canada
Paul B. Hamel, Association of Field Ornithologists / USDA-Forest Service
Mark E. Hauber, Wilson Ornithological Society / Hunter College
M. Victoria McDonald, Association of Field Ornithologists / University of Central Arkansas
Arvind Panjabi, Rocky Mountain Bird Observatory / Partners in Flight
Terry Rich, Partners in Flight Coordinator / US Fish & Wildlife Service
Ernesto Ruelas, American Ornithologists Union / Field Museum Chicago
Miguel Saggese, Raptor Research Foundation / Western University
Eduardo Santana, CIPAMEX / Universidad de Guadalajara
Jorge Schondube, Universidad Nacional Autónoma de México
Thomas H. White, US Fish & Wildlife Service, Puerto Rico

Media Committee

Alice Boyle (Chair)
Doug Altshuler
Kristina Cockle

Scientific Program Committee:

Robert Clark, Environment Canada & University of Saskatchewan
Courtney Conway, University of Arizona & U.S. Geological Survey
André Desrochers, Université Laval
James Dwyer, Raptor Research Foundation
Patricia Escalente, Universidad Nacional Autónoma de Mexico
Vicki Friesen, Queen's University
Keith Hobson, Environment Canada and University of Saskatchewan
Rebecca Holberton, University of Maine
Sara Morris, Canisius College

Katherine Renton, Universidad Nacional Autónoma de Mexico
Sievert Rohwer, University of Washington
Kim Sullivan, Utah State University
Marc-André Villard, Université Moncton
Tony Williams, Simon Fraser University
Kevin McCracken, University of Alaska

The program committee also sincerely thanks the following individuals for their assistance with abstract evaluations:

James Morris-Pocock, Queen's University
Matt Reudink, Thompson Rivers University
Sarah Wallace, Queen's University
Patrick Weatherhead, University of Illinois
Scott Wilson, Canadian Wildlife Service
David Winkler, Cornell University

Silent Auction

Kim Dohms (Lead Organizer)
Robert Elner
David Toews

Society Requests – Council and Business Meetings, Other Events

Lee Robinson

Student Presentation Awards Committee

Robert Curry (Chair)
Anna Chalfoun, Cooper Ornithological Society
Gail Fraser, Waterbird Society
Rebecca Kimball, American Ornithological Union
Vickie McDonald, Association of Field Ornithologists
Diane Neudorf, Association of Field Ornithologists
Joe Nocera, Society of Canadian Ornithologists
Sampath Seneviratne, Bird Studies Canada

Student Travel Awards Committee

Russell Dawson (Chair) University of Northern British Columbia & Société des Ornithologues du Canada - Society of Canadian Ornithologists
Mark Deutschlander, Hobart and William Smith Colleges & Wilson Ornithological Society
Gail Fraser, York University & Waterbird Society
Rolf Koford, Iowa State University & Cooper Ornithological Society
Miguel Angel Martínez Morales, El Colegio de la Frontera Sur, Unidad Campeche & La Sociedad para el Estudio y Conservación de las Aves en México
Gary Santolo, CH2M HILL & Raptor Research Foundation
Andrea Townsend, University of California, Davis & Association of Field Ornithologists
Chris Witt, University of New Mexico & American Ornithologists' Union

Postdoctoral Travel Awards Committee

Rebecca Kimball (Chair)



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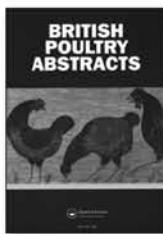
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In addition, the following people made significant contributions to the Student Travel Awards Committee:

Joël Béty, Université du Québec à Rimouski
Matt Carling, University of Wyoming
Bobby Fokidis, University of British Columbia
Sarah Jamieson, Massey University
Karen Wiebe, University of Saskatchewan
Mark Woodrey, Mississippi State University
Greg Shriver, University of Delaware

Volunteer Coordinator

Nancy Mahony

NAOC-V Entertainment

Opening Reception - The British Columbia Regiment

Irish Pipes and Drums

Thomas Budd

Matthew Dolan

Conference Banquet – UBC Opera

Francesca Corrado

Aaron Durand

Richard Epp - *pianist*

Ilrang Kong

Eva Tavares

NAOC-V GENERAL INFORMATION

Registration/Information Desk

Registration and delegate materials will be located in the Party room (2nd floor) of the Student Union Building (SUB) for the duration of the conference.

- 2:00pm – 9:00pm - Tuesday, 14 August
- 7:00am – 5:00pm - Wednesday, 15 August
- 8:00am – 5:00pm – Thursday, 16 August
- 8:00am – 5:00pm – Friday, 17 August
- 8:00am – 4:00pm – Saturday, 18 August

Your registration fee includes the following:

- NAOC-V delegate kit and name badge
- Opening Reception – Tuesday, 14 August
- Coffee Breaks – 15 – 18 August
- Attendance to plenary, oral and poster sessions
- Unlimited entry to Beaty Biodiversity Museum

Updated meeting information will be available daily at the registration desk or at www.naoc-v2012.com. A message board will be available for conference-related activities.

Conference Venues

Plenary sessions and award presentations will take place daily in the Chan Centre. Please note that late arrivals may be required to view the session in a separate viewing room within the building (not the main hall).

Oral presentations and coffee breaks will be held in the Buchanan A, Chemistry and Hennings buildings, all located

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within 5 minutes walking of the Chan Centre and Student Union Building (SUB). Poster presentations will be displayed in the Student Recreation Centre (SRC).

Welcome Reception – 2nd floor of the Student Union Building. Admission is only for those delegates who have collected their NAOC-V registration items, and have a valid name badge (or guest ticket).

Conference Banquet – Museum of Anthropology. The world-renowned museum is acclaimed for its spectacular architecture and unique setting on the cliffs of Point Grey, in addition to the innovative display of First Nations collections.

- Tickets are required for all attendees and accompanying guests
- Student Presentation Awards will be announced 6:30 – 7:00pm in the Great Hall of the museum.
- Please note that this is an outdoor event
 - o Appropriate outdoor evening attire is recommended (sweater or a light jacket)
 - o Comfortable footwear is recommended, as the outdoor grounds are uneven
- Museum staff will be stationed throughout the venue to provide information
- o No food or beverages allowed in the galleries

Conference Exhibition and Poster Sessions

Poster Sessions and Exhibit Booths will in the SRC. This space will be open daily as of 10:00am until 7:00pm. Delegates are encouraged to visit exhibit booths outside of the poster sessions. Please note that posters will be up and available for viewing all day for the day of that session:



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Poster Session 1

- 5:00pm - 7:00pm - Wednesday, 15 August
- 5:00pm - 6:00pm - Thursday, 16 August

Poster Session 2

- 5:00pm - 7:00pm - Friday, 17 August
- 5:00pm - 6:00pm - Saturday, 18 August

Name Badge

Admission to all conference activities are by name badge only, please be sure to wear your badge at all times. Your name badge must be shown when choosing to visit the Beaty Biodiversity Museum. Please help us recycle by returning your name badge holder to the Registration Desk when you leave.

Coffee Breaks

Coffee breaks for conference attendees will be held daily (Wednesday - Saturday) at 10:00 - 10:30am and 3:00 -3:30pm. There will be three coffee break stations: Buchanan A, Chemistry and Hennings. We are proud to serve 100% organic shade-grown coffee. Delegates are urged to bring their NAOC-V coffee mug, as there will be extremely limited numbers of compostable cups to encourage all participants to be green.

Lunch Plan

For those delegates who have purchased a 4-Day lunch plan in advance, daily lunch (Wednesday - Saturday) is served 12:00pm - 1:30pm in the Pacific Spirit Cafeteria, SUB. Lunch plan tickets are not available for purchase on site. There are numerous food outlets available across campus and in the University Village.

Responsibility

The Organizing Committee assumes no responsibility for accident, losses, damage, delays, or any modifications to the program arising from unforeseen circumstances. It accepts no responsibility for travel or accommodation arrangements.

The participant acknowledges that he or she has no right to lodge damage claims against the Organizing Committee should the conference proceedings be hindered or prevented by unexpected political or economic events or generally by acts of God, or should the non-appearance of speakers or other reasons necessitate program changes

Internet Access

Wireless internet access is available in most buildings on campus by choosing the "UBC Visitor" network from your wireless options.

Additional internet stations are available at any UBC library. Guest terminals are available on main floors.

On-Campus Accommodation

Walter Gage Residence & the West Coast Suites - 5959 Student Union Boulevard

Marine Drive Residence - 2205 Lower Mall

Ritsumeikan Residence - 2525 Lower Mall

All residences are open 24 hours per day, 7 days per week.

Check-in is at 3:00pm and check-out is at 11:00am.

For more information, please contact the front desks through the Conferences and Accommodation Reservations Office at 604-822-1000 or toll free at 1-888-822-1030.



The Vancouver Avian Research Centre focuses on wild bird research, conservation and education. We conduct monitoring, banding and research to identify causes of population change and inform habitat management. Our mission is to conduct long-term, comprehensive bird population monitoring to provide scientifically defensible strategies for avian and ecosystem conservation.

www.birdvancouver.com

A black and white photograph of a bird, possibly a finch, perched on a person's hand. In the background, there is a graphic of a mountain range with the letters "HSL" overlaid. Below the image, the company name and tagline are displayed.

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Banking and Foreign Exchange

The Bank of Montreal (MasterCard) and the Canadian Imperial Bank of Commerce (Visa) are both located in the University Village, providing banking and exchange facilities Tuesday - Saturday 9:30am - 4:30pm (times are subject to change). Automated teller machines are available in all banks, in the lobby of Walter Gage Residence and in the Student Union Building.

Taxis

Taxis are available in front of the Walter Gage Residence. Fare to the airport or downtown is about \$35 - \$40 CAD.

Public Transit

The Translink Bus Loop (Vancouver's public transit system) is located across the street from Walter Gage Residence. Bus schedules are available in the Student Union Building. Buses require exact change (\$2.50 for a One Zone/one-way trip within Vancouver). Packs of 10 bus tickets may be purchased in the Student Union Building or at Shoppers Drug Mart.
www.translink.ca

Childcare

Childcare services are not offered by NAOC-V.

Campus Safety

Campus security can be reached at 604-822-2222 in an emergency, otherwise at 604-822-8609 for non-emergencies. There are also blue light phones located on campus, which provide a direct connection to security for emergency situations or general assistance.

Emergency Telephone Numbers

Emergency	911
Ambulance	604-872-5151
Fire	604-822-4567
Police (RCMP)	604-224-1322

Insurance

Liability insurance is the responsibility of each individual delegate. Visitors are not covered by the Canadian Medical Health Insurance Plan. Delegates should have their own medical coverage.

Lost and Found

All materials lost or found in academic buildings are brought to the Lost and Found Office located in the Campus Security Office. The Security Office is located at 2133 East Mall, or can be reached from 9:00am to 5:00pm, Monday through Friday at 604-822-9922.

Emergencies:

Urgent Care Centre at UBC Hospital
Open daily from 8:00am to 10:00pm
Phone: 604-822-7662 or 911
Address: 2211 Wesbrook Mall

On Campus Walk-In, Appointment Only Clinics:

University Village Medical and Dental Clinic
Walk-in and appointments welcome
Open Monday to Friday, 8:00am to 6:00pm
Phone: 604-222-CARE (2273)
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Address: 5754 University Blvd.

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Phone: 604 228-1533

Address: 5950 University Blvd.

Student Union Building (SUB) and University Village

Central to the conference venues, the SUB offers a number of food outlets, shops and postal services. At the entrance to the campus on University Boulevard is a small shopping centre, within walking distance of the conference venues. The University Village includes two banks, a pharmacy, photocopying service, restaurants and fast food outlets.

Messages

Messages for delegates staying on-campus may be left by calling the Conferences and Accommodation Reservations Office at 604-822-1000 or toll free at 1-888-822-1030. All private suites have voicemail capabilities. Shared rooms in Gage are not equipped with telephones, but messages can be posted on the Walter Gage Message Board in the Lobby.

Parking

Limited parking is available for those guests staying on-campus for a daily rate. Delegates staying off campus are requested to park in the one of the six parkades on campus.

Printing and Reproduction Services

CopyRight (basement of the SUB): Offers copying, printing, laminating, binding and faxing.

Hours: Monday to Friday 9:00am – 5:00pm. Self-serve copiers available from 7:00am – 11:00pm.

NAOC-V will not offer printing services for presenters.

Recreational Facilities

The BirdCoop is located in the Student Recreation Centre with a comprehensive range of exercise equipment, and is open Monday to Thursday: 6:30am to 9:00pm, Friday: 6:30am to 7:00pm, Weekends: 10:00am to 6:00pm. There is a reduced rate of \$6/day for guests staying on-campus.

The UBC Aquatic Centre has public drop-in times for its pool, gym, sauna and whirlpool facilities. For more information, please visit www.aquatics.ubc.ca.

UBC Bookstore

The university bookstore is located on the corner of University Boulevard and East Mall. A special display of books, pertaining to NAOC-V authors, will be on display for the duration of NAOC-V. The bookstore is open Monday to Friday, 9:30am to 5:00pm, Saturday, 11:00am to 5:00pm.

15% Discount is offered to delegates (excludes computer & hardware); please reference discount code: CSC12

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Conservation of Tropical Birds

Navjot S Sodhi, Cagan H Sekercioglu,

Jos Barlow, Scott Robinson

ISBN: 978-1-4443-3482-1

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CONSTRUCTION ON CAMPUS

The NAOC-V LOC greatly appreciates the patience of all our conference delegates, with regards to the construction on campus. UBC is undergoing several major projects to improve the layout and sustainability of campus facilities for students and visitors. A series of landscape upgrade projects to improve walkways, street lighting and way finding signage with an overall goal to create an even more pedestrian friendly campus. The underground work on Memorial Road (by the Buchanan buildings) is a replacement of an aging steam heating system to a more energy efficient hot water system that will ultimately reduce campus GHG emissions by 22%. A new Student Union Building, construction at the corner of University Boulevard and East Mall, will be a unique destination developed by students for students.

UBC SUSTAINABILITY INITIATIVES

UBC offers a comprehensive set of sustainability projects and initiatives to help facilitate the change towards a sustainable future. UBC demonstrates leading practices in both institutional and residential green building on campus.

Accommodation: Housekeeping is dedicated to using green and environmentally friendly products when servicing your room. Guests can opt out of having their towels changed daily.

Catering: China dish service will be provided for all breakfast and lunches, opening reception and conference banquet. Delegates are urged to bring their NAOC-V coffee mug to all coffee breaks, where a limited supply of compostable cups will be available.

Printing: Hemlock is the leader when it comes to sustainability in print; they have been recognized as the “Most Environmentally progressive printer in Canada” for the past 6 consecutive years! From recycled paper, minimum consumption and lowest emission printing inks used.



COUNCIL & BUSINESS MEETINGS

Various societies will have the opportunity to meet over the main NAOC-V conference dates to hold their Council, Board and Business Meetings. Times and meeting locations can be found on the Function Schedule, page 22.

Listings by Society or Organization:

American Ornithologists' Union

Council Meeting - Monday 13 August
Council Meeting – Tuesday 14 August
Fellows Meeting – Tuesday 14 August
Fellows Dinner – Tuesday 14 August
Business Meeting – Thursday 16 August
Council Meeting – Friday 17 August

Association of Field Ornithologists

Council Meeting – Tuesday 14 August
Business Meeting – Friday 17 August

Bird Studies Canada

Meeting – Tuesday 14 August

La Sociedad para el Estudio y Conservación de las Aves en México

Council Meeting – Monday 13 August
Council Meeting – Wednesday 15 August
Business Meeting – Thursday 16 August

Condor Editorial

Board Meeting – Friday 17 August

Cooper Ornithological Society

Board Meeting – Monday 13 August
Board Meeting – Tuesday 14 August
Business Meeting – Thursday 16 August

Ornithological Societies of North America

Meeting – Wednesday 15 August

Partners in Flight

Science Meeting – Sunday 12 August
International Meeting – Monday 13 August
Western Working Group - Tuesday 14 August

Raptor Research Foundation

Business Meeting – Saturday 18 August

Society of Canadian Ornithologists / Société des ornithologues du Canada

Council Meeting – Tuesday 14 August
Annual Meeting – Wednesday 15 August

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Society for Ornithology

Council Meeting – Monday 13 August
 SFO Discussion – Wednesday 15 August
 Council Meeting – Saturday 18 August

Waterbird Society

- Council Meeting – Tuesday 14 August
- Luncheon – Thursday 16 August
- Business Meeting – Thursday 16 August

Wilson Ornithological Society

- Business Meeting – Friday 17 August

WORKSHOPS

On Tuesday, 14 August and Sunday, 19 August various workshops will be held for NAOC-V participants. Please note that several workshops require pre-registration. Full summaries can be found on the conference website. Times and meeting locations can be found on the Function Schedule, page 22.

Estimating avian abundance and occupancy with marked and unmarked individuals

Dr. Richard Chandler, Dr. Evan Cooch, Dr. Paul Doherty and Dr. Jim Nichols

Registered delegates only

Sunday, 12 – Tuesday, 14 August

How a manuscript becomes a paper: writing and reviewing scientific papers

Michael A. Patten and Brenda D. Smith-Patten

North American Ornithological Atlas Committee (NORAC)

Andrew R. Couturier and Charles M. Francis

Using and contributing to avian collections

Ildiko Szabo

Getting the message out: How to communicate your research effectively through the media

Andrea Norris, Melanie Colon and Stephanie Wright

Registered delegates only

The status of Gavia: Conservation in black and white

Jay Mager and James Paruk

Enhancing automated analysis of acoustic monitoring data

Charles M. Francis, Andrew Farnsworth and Phil Taylor

Sunday, 19 August

Bird-banding Techniques

John D. Alexander

Registered delegates only

Sunday, 19 – Wednesday, 22 August

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SYMPOSIA

Symposia will be held 1:30pm – 5:00 pm each day of the conference, with a short coffee break 3:00pm – 3:30 pm. Full descriptions and information on each symposium can be found on the NAOC-V website. Times and meeting locations can be found on the Function Schedule, page 22.

Wednesday, 15 August

- S1: Assessing bird populations at regional to continental scales: results from innovative approaches to data intensive analyses of North American birds
(Matuoka/Cumming)
- S2: Tracking long distance migration of small birds: new discoveries in migration ecology
(Fraser/McKinnon)
- S3: Assessing the impact of marine renewable energy installations on birds: lessons learned
(Paton/McWilliams)

Thursday, 16 August

- S4: Recent Advances in Acoustic Monitoring of Birds
(Farnsworth/Francis)
- S5: The application of next-generation sequencing to ornithological research
(Carling/Chevron)
- S6: Tracking migratory stopover phenology: Climate change and the phonological synchrony of North American bird migration with seasonal resources
(Kellerman/Wood)

Friday, 17 August

- S7: Phylogenetics, diversification and conservation of all birds (Joy/Thomas)
- S8: Tropical challenges: priorities in Mexican ornithology (Renton/Navarro-Siguenza)
- S9: Movement ecology of migratory birds in relation to an ecological barrier across different levels of analysis: Lessons from two major regional systems (Taylor/Moore/Holberton)

Saturday, 18 August

- S10: Integrating avian physiology and ecology: phenotypic variation and fitness (Williams)
- S11: Avian disease ecology: from the individual to the landscape (Owen/Jankowski)
- S12: Hot tropics in the Tropics: Research to support full life-cycle conservation of migrants (Ruth/Rosenberg/Beardmore/Easton)

ABSTRACTS

All oral and poster presentation abstracts, which includes full author listing, can be found at:
<http://naoc-v2012.com/abstractdownload>
Login: naocv
Password: abstract_download1



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PRESENTATION GUIDELINES FOR ORAL AND POSTER PRESENTATIONS

Oral Presentation Guidelines

All oral presentations will take place within academic lecture theatres. Each oral presentation is allocated 15 minutes, 12 minutes for the presentation and 3 minutes for questions.

All rooms are equipped with a podium PC, LCD projector(s), screen, presenter remote, wireless lapel and podium microphones. UBC currently operates with Microsoft Office Suite 2010 applications (PC, not MAC based) – it is the responsibility of the presenter to ensure that your presentation is compatible with our current operating system.

A speaker preparation room will be available in the Student Union Building, for presenters to test their presentation in advance of their session.

Presenters should arrive at their allocated session no less than 25 minutes before the start of the first presentation in order to meet with the chairperson, check in with the AV volunteer and load their presentation onto the podium PC. Presenters are responsible to bring their talks on a USB stick to upload on the podium PC. Presentations are saved in daily folders, with your presentation time slot (e.g. W1.1) and then all files are deleted at the end of the conference.

Presenters can arrive any time before sessions to upload and test their presentation. AV volunteers will be stationed in each lecture theatre from 9:45 am to 5:15 pm daily.

Note: You will not be able to connect your personal laptop; all presentations must be run off of the podium PC.

Poster Presentation Guidelines

Posters are to be no larger than 120cm X 120cm (4 feet wide by 4 feet high). Please make sure that the title of your poster is the same as that of your abstract, and that you include all the names of your contributing authors. The text should be laid out so that it is easily readable at a distance of 2 m (approx 6.5 feet). Please ensure that you are present to discuss your poster on your presentation dates and times.

Set- up Instructions: The poster and exhibit hall (Student Recreation Centre) will be open at 10:00 am each day – presenters are required to have their poster set up and ready no later than 5:00 pm for Day One of their assigned poster session (i.e., no later than 5 pm on Wednesday, 15 Aug for Poster Session 1; 5 pm on Friday, 17 Aug, for Poster Session 2). Push pins will be provided on each poster board. Posters must be removed at the end of the poster session on Day Two to accommodate posters presented in the following day's session. Any posters that are not removed will be disposed of by conference staff.

Poster Session 1 Presentation Dates/Times:

5:00 pm – 7:00 pm - Wednesday, 15 August

5:00 pm – 6:00 pm - Thursday, 16 August

Poster Session 2 Presentation Dates/Times:

5:00 pm – 7:00 pm – Friday, 17 August

5:00 pm – 6:00 pm – Saturday, 18 August

Society for Ornithology AN IDEA UNDER CONSTRUCTION

Learn more about SFO this week!

SFO Presentation and Discussion Wednesday 7:00 pm Frederic Wood Theatre

Be sure to visit the SFO booth during coffee breaks, lunch, and poster sessions for one on one discussions with society representatives planning SFO:

- Wednesday: Association of Field Ornithologists
- Thursday: American Ornithologists' Union
- Friday: Cooper Ornithological Society

Keep up to date on the latest SFO news on the Ornithology Exchange.



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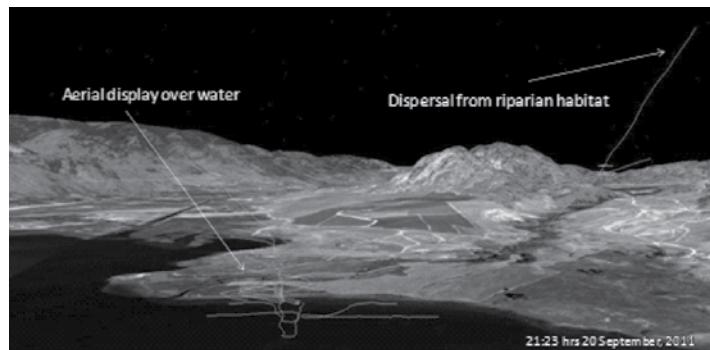
Ask about our sample units.

INSTRUCTIONS FOR SESSION CHAIRS

Thank you for agreeing to Chair a session! Please be at the assigned room for your session at least 25 minutes before the session begins and wear a watch so you can control the time allocated to each speaker. Your major duties are as follows:

- Ensure that all equipment and lights work - and you know how to operate them!
- Meet the speakers in your session (4-6 people, depending on the session), and ensure that they upload their presentation to the computer (details above).
- Familiarize the speaker with the microphone, pointer and projection system controls.
- Introduce the speakers (only, to save time) – the name of the presenter, current position, and his/her professional affiliation.
- It is EXTREMELY important to start and end the sessions on time, and to tightly control the speakers time. This is because people will be moving among sessions, and adhering to a strict, synchronized time schedule is critical to maintaining a smooth conference
- If time allows, be prepared to ask a question yourself, just to encourage some discussion of results and general ideas.
- Remain positive and upbeat at all times, especially if the presenter needs help – but keep them on time!
- Place the pointer and mobile microphone at the podium after each presentation, for the next speaker.

Again – thanks very much for your assistance with this important contribution to the conference.



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ADDITIONAL SPECIAL & SOCIAL EVENTS

PUBLIC LECTURE

Monday, 13 August – 7:00 pm – 9:00pm – Frederic Wood Theatre. Registration required. NAOC-V, Nature Vancouver and Beaty Biodiversity Museum are pleased to offer a free public lecture by internationally renowned scientist, Dr. Bridget Stutchbury.

"Frequent Fliers: Tracking Songbird Migration through the Americas" - Bridget Stutchbury, York U.

Each fall, billions of songbirds leave Canada on an epic journey to their far-away wintering grounds in Central and South America where many live in tropical forests shared by toucans, howler monkeys, and jaguars. Dozens of species have experienced serious, long-term population declines that are driven in part by the threats that these birds face on migration and while in the tropics. But only recently has it been possible to track the entire migration of individual songbirds to find out how they accomplish their amazing 10,000 km (or more!) round trip and to map out critical habitats used during migration. Bridget Stutchbury will reveal her surprising migration tracking results for Purple Martins, Red-eyed Vireos and Wood Thrushes and discuss how this research can help us save songbirds.

VERTNET ROUNDTABLE DISCUSSION

Tuesday, 14 August, 9:00 am – 12:00pm - Mary Murrin 2 (Gage Commons block) Presenters: Carla Cicero, Carol Spencer, John Wieczorek, Hank Bart, Nelson Rios

We will host an open discussion of the NSF-funded project VertNet (<http://vertnet.org>) to bring vertebrate biodiversity

Advancing bird and habitat conservation through science, education, and partnerships



- Implementing research and monitoring projects pertaining to avian ecology and ecosystem conservation.
- Developing and delivering scientific results to decision makers in support of sustainable natural resource management and ecosystem conservation.
- Providing technical and human resources for effective data input, management, discovery, access, and analysis.
- Through internships and workshops, providing technical skill development in the areas of bird monitoring and research, science delivery, and science education.
- Providing unique and diverse community learning opportunities that foster an appreciation for birds and an interest in science-based conservation.
- Integrating needs for science and outdoor education by delivering curriculum and supporting related programming.
- Collaborating with partners to provide capacity for meeting our mission and maximizing the effectiveness of our work and conservation outcomes.

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Exhibit Booth #11

data (including ORNIS, HerpNET, FishNet2, and MaNIS) into the cloud. We will preview the new data platform, discuss current status and developments, and answer questions about the project. This is an opportunity to engage with the VertNet PIs and developers to address questions and concerns. Anyone who is interested in VertNet, either as a data provider and/or a data user, is welcome to attend.

SILENT AUCTION

Wednesday, 15 & Thursday, 16 August - Get ready...to bid! A multi-society mega- Silent Auction will be held 15-16 August to raise funds for student initiatives in each of the participating societies. Items donated by companies and individuals will be bid on by conference attendees – and to the highest bidder go the spoils! From jewelry to fine art to books, monographs, collectibles and historical memorabilia, we've got it all. The generosity of donors and bidders will help fund students and student activities, but this meeting's auction has a twist! Proceeds from donations will support students in the society of the donor's choice. At NAOC-V, YOU choose the society for your donation's contribution.

Live auction! To round out our event on Thursday, 16 August Susan Elbin will compere the live auctioning of selected major items and count down to the end of the silent auction bidding. It promises to be an exciting night!

STUDENT-MENTOR LUNCH

Wednesday, 15 August - Students will be matched with mentors of their choice, to have a one-on-one sit-down lunch. Registration is required; ticketed event. Sponsored by the AOU.

ORNITHOLOGICAL COUNCIL PERMIT CLINICS

Wednesday, 15 & Thursday, 16 August - Are you stuck in a morass of permit requirements? Don't know where to start? Visit the Permits Clinic on either day between 12:45 pm - 4:15 pm. Drop in any time, enjoy some refreshments, and let us sort out your permit needs. We can also help with your animal use protocol questions.

Location: Irving K. Barber Learning Centre – Room 156.

PEOPLE OF A FEATHER

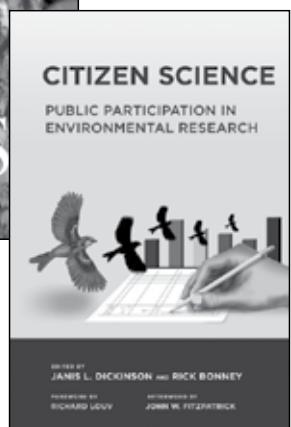
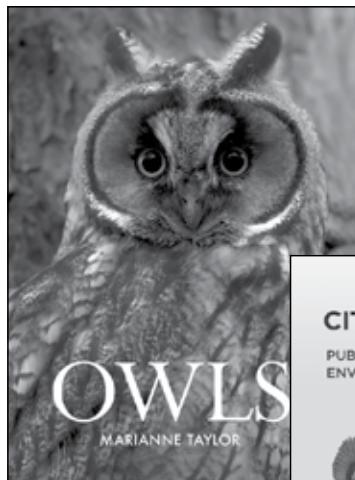
Wednesday, 15 August – 7:00 pm – 8:30 pm - Winner of several awards including Best Environmental Film and Top 10 Canadian Films at VIFF, Best BC Film of 2011 (Vancouver Film Critics Circle) and has recently been nominated for Direction and Cinematography crafts at the New York International TV and Film Awards!

Ticketed event - all proceeds to The Arctic Eider Society. Watch the trailer and learn more at: www.peopleofafeather.com

BIRD BAND JAM

Wednesday, 15 August – 8:00 pm – late - Have you ever wondered what other ornithologists do when they disappear from their offices and field jobs at the end of the day? Join us for a full evening of entertainment at a local Vancouver hang-out and find out. The evening will kick off with a contra dance to live string band music and be followed by a variety of musical acts and other talent, all provided by your colleagues. Ticketed event – a handful of tickets will be available at the door of the Biltmore Cabaret.

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AERIAL INSECTIVORE CONSERVATION MEETING

Wednesday August 15th, 7-9 PM

Many species of avian aerial insectivores including swallows, swifts, nightjars and flycatchers are experiencing steep population declines, particularly in northern breeding populations. This meeting will allow researchers interested in this guild of birds to come together to discuss ongoing work and methodologies in exploring possible causes of these declines. We hope this meeting will generate interest and momentum in coordinating research efforts into this problem across the western hemisphere. If you are interested in attending, please contact Elsie Krebs (elsie.krebs@ec.gc.ca).

EARLY MORNING BIRD WALKS

Early morning bird walks will be offered from 6:00 am - 8:00 am on each morning of the conference (Wed-Sat). Walks will be led by local experts and will be approximately 2 hours long and will return in time for the Plenary talks. All walks will be around the UBC campus through a variety of local habitats, including forests, gardens and shoreline. Sign-up sheets will be posted at the registration desk and the spots will available on a first come first served basis.

ALL-OUT OSTRICH UPROAR 5K RACE

Thursday, 16 August – 6:45am – 7:30 am - The 27th running of AOU's traditional 5 km race will take place on the morning of 16 August. Runners can register at check in for the meeting or on the morning of the race. We request a donation of \$5 to \$10 for Student Research Fund.

More details will be provided at the registration desk or contact Rhonda Millikin: rhonda.millikin@ec.gc.ca



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U.S. VERSUS CANADA SOFTBALL GAME

Friday, 17 August - from 12:00pm – 2:00pm at the Wolfson Field East on the UBC campus, a softball game will be played to decide once and for all which country's ornithologists can field the best team, the Americans or the Canadians/Latin Americans. The rules are set to allow participants of any level of skill to play. Bats, balls and bases will be supplied, but bring your own glove if you have one. The Americans will be captained by Mike Collopy and Chuck Preston while the Canadians/Latin Americans will be led by David Bird and Lloyd Kiff.

For more information, contact David Bird, McGill University 1-514-398-7760 david.bird@mcgill.ca

STUDENT-PROFESSIONAL DINNER

Friday, 17 August – 7:00pm – 8:30 pm - Professionals and students will be grouped by research interest, and may network over a barbecue dinner! Registration is required; ticketed event. Sponsored by WOS.

QUIZ BOWL

Friday, 17 August – 8:30 pm – 10:00 pm - Conference attendees are welcome to participate and attend this jeopardy-style BIRD trivia game! More information and registration is available on the Student Activities Page. Sponsored by SCO/SOC.



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STUDENT TRAVEL AWARDS

Congratulations to the following award recipients:

Michael Akresh (U. Massachusetts)
Kyle Aldinger (West Virginia U.)
Sarah Alessi (Western Michigan U.)
Camilo Alfonso Cuta (U.Nacional de Colombia)
Michael Andersen (U. Kansas)
Katharine Batdorf (Ohio State U.)
Matthew Battiston (U. Windsor)
Phred Benham (U. New Mexico)
Igor Berkunsky (U. Nacional del Centro de la Provincia de Buenos Aires)
Pierre-Paul Bitton (U. Windsor)
Nicholas Block (U. Chicago)
Matthew Boggie (U. Arizona)
Donella Bolen (Ohio State U.)
David W Bradley (U. of Waikato)
Clare Brown (Louisiana State U.)
Allison Byrd (U. Maine)
Sergio A. Cabrera-Cruz (Instituto de Ecología A.C)
José Rafael Calderón Parra (U. Autónoma Metropolitana - Iztapalapa)
Ricardo Canales-Del-Castillo (U. Autónoma de Nuevo León)
Pilar Carbó Ramírez (U. Autónoma del Estado de Hidalgo)
Pilar Carbó Ramírez (U. Col. Carboneras, México)
Laura Cárdenas (Selva)
Jeff Carter (Fort Hays State U.)
Mery Casady (U. Nebraska - Kearney)
Alejandra Cavazos Guadarrama (U. Nacional Autónoma de México)

Antonio Celis-Murillo (U. Illinois – Champaign/Urbana)
Scott Chiavacci (U. Illinois – Champaign/Urbana)
Andrew Chin (York U.)
Andrea Claassen (U. Minnesota)
Mason Cline (U. Georgia)
Emily Cohen (U. Southern Mississippi)
Tara Conkling (Mississippi State U.)
Ana María Contreras-González (U. Nacional Autónoma de México)
Christina Cornett (U. Hawai'i)
Maureen Correll (U. Maine)
Gala Cortés Ramírez (U. Nacional Autónoma de México)
Kristen Covino (U. Southern Mississippi)
Andrés Cuervo (Louisiana State U.)
Leah Culp (U. Maine)
Claire Curry (U. Oklahoma)
Jeffrey DaCosta (Boston U.)
Suzanne Davis (Institute of Jamaica)
Emma DeLeon (Louisiana State U.)
Oliverio Delgado-Carrillo (U. Michoacana de San Nicolás de Hidalgo)
William DeLuca (U. Massachusetts)
Matthew Dickinson (College of the Atlantic)
Shane DuBay (U. New Mexico)
Kristen Dybala (U. California, Davis)
Melquicedec Escalante Vargas (U. Juárez Autónoma de Tlaxcala)
Yarelys Ferrer Sanchez (National Enterprise for the Flora and Fauna Protection)
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Kevyn Gammie (U. Windsor)
William Garcia (Museo Argentino de Ciencias Naturales)
Natalia Cristina García (Belize Foundation for Research and Environmental Education)
Rony Alberto García-Anleu (Wildlife Conservation Society - Guatemala Program)
Belen Garcia-Perez (U. Saskatchewan)
José Gerardo Ham Dueñas (U. Nacional Autónoma de México)
Leticia Gómez Rosas (U. Autónoma de Hidalgo)
Valentina Gómez-Bahamón (Selva)
Miguel Angel Grageda-García (Sul Ross State U.)
Mario Alberto Guerrero-Madrigal (U. Autónoma de Nuevo León)
Sarah Guindre-Parker (U. Windsor)
Jennifer Hale (Ohio State U.)
Jose Gerardo Ham Dueñas (U. Nacional Autónoma de México)
Michael Harvey (Louisiana State U.)
Matthew Hayes (U. Wisconsin-Madison)
Rebecca Heiss (U. Memphis)
Norma Joyce Hernandez Vega (U. Nacional Autónoma de México)
Leonel Herrera-Alsina (U. Nacional Autónoma de México)
Nathan Holoubek (Emporia State U.)
Peter Hosner (U. Kansas)
Clark Jones (U. Georgia)
Matthew Jones (U. Wyoming)
Christopher Jorgensen (U. Nebraska - Lincoln)
Norma Joyce Hernández Vega (Facultad de Estudios Superiores Iztacala)

The advertisement features a black and white photograph of a bird perched on a branch. The bird has a white head and chest, and dark feathers on its back and wings. In the top left corner, there is a logo for "Kowa" inside an oval shape. Below the bird, the text "THE PERFECT VIEW IS FROM HERE" is written in a bold, sans-serif font. At the bottom left, there is a logo for "SV SERIES" with "KOWA" underneath it. Below the logo, there is a small "f" icon for Facebook and a "t" icon for Twitter. The text at the bottom reads: "The SV Series are specifically designed to provide a superior optical performance at an exceptional value. Our multi-coated lenses capture every detail with edge-to-edge clarity for a remarkably bright and sharp image." The website "kowa-usa.com" is also listed at the bottom.

Laura Kearns (Ohio State U.)
Judith Keller (U. Delaware)
Janice Kelly (Texas State U.)
Rebecca Kern (U. Delaware)
Alexander Keyel (Tufts U.)
Megan Kobiela (College of William and Mary)
Amy-Lee Kouwenberg (Memorial U.)
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Diane Landoll (U. Oklahoma)
Katie Langin (Colorado State U.)
Carlos Esteban Lara Vásquez (U. Nacional de Colombia)
Dayna LeClair (U. Georgia)
Anna-Joy Lehmicke (U. Georgia)
Ashley Long (Texas A&M U.)
Gabriel López Segoviano (U. Nacional Autónoma de México)
Katrina Lukianchuk (U. Windsor)
Christie Macdonald (U. Windsor)
Ian MacGregor-Fors (Instituto de Ecología A.C)
Alberto Macías Duarte (Rocky Mountain Bird Observatory)
Christine Madliger (U. Windsor)
Erika Maldonado-Vilchis (U. Nacional Autónoma de México)
Jennifer Malpass (Ohio State U.)
Joseph Manthey (U. Kansas)
Karla Maryan Rodríguez Hernández (U. Nacional Autónoma de México)
Nicholas Mason (San Diego State U.)
Molly McDermott (Ohio State U.)
Matt McKim-Louder (U. Illinois - Champaign/Urbana)
Emily McKinnon (York U.)
Daniel Méndez Aranda (U. Nacional Autónoma de México)
Sara Miller (Arkansas State U.)
Greg Mitchell (U. Georgia)
Adolfo Christian Montes-Medina (U. Nacional Autónoma de México)
Ashley Morrison (Thompson Rivers U.)
Claudio Mota-Vargas (Instituto de Ecología A.C)
Desiree Narango (Ohio State U.)
Eric Nolte (Boise State U.)
Hernaldo Padilla Rangel (U. Autónoma de Nuevo León)
Neil Paprocki (Boise State U.)
Jennifer Phillips (California State U.)
Mónica Ana María Quiroga Rodríguez (U. Nacional Autónoma de México)
Christine Rega (U. Delaware)
Bryan Reiley (U. Illinois - Champaign/Urbana)
Francisco Alberto Rivera-Ortíz (U. Nacional Autónoma de México)
Ellen Robertson (U. Maine)
Ivelisse Rodríguez Colón (U. Turabo)
Claudia Isabel Rodríguez Flores (U. Nacional Autónoma de México)
Karla Maryan Rodríguez Hernández (U. Nacional Autónoma de México)
Linnea Rowse (Ohio State U.)
Katharine Ruskin (U. Maine)
Irene Ruvalcaba-Ortega (U. Autónoma de Nuevo León)
Alejandro Salinas-Melgoza (New Mexico State U.)
Eloisa-Helena-Reis Sari (U. Missouri)

Sarah Saunders (U. Minnesota)
Glenn Seeholzer (Louisiana State U.)
James Sheehan (West Virginia U.)
Katherine Shlepr (College of the Atlantic)
David Slager (Ohio State U.)
Jennifer Smetzer (U. Massachusetts)
Carlos Alberto Soberanes Gonzalez (U. Nacional Autónoma de México)
Jose Manuel Soberanes Gonzalez (U. Nacional Autónoma de México)
Jose-Roberto Sosa-Lopez (U. Windsor)
Calandra Stanley (York U.)
Richard Stanton-Jr. (U. Missouri-Columbia)
Laura Stewart (Texas A&M U.)
Rebecca Stirnemann (Massey U.)
Samantha Stoklosa (Ohio State U.)
Caitlyn Stromko (York College of Pennsylvania)
Katherine Stryjewski (Boston U.)
Ryan Stutzman (U. Nebraska - Lincoln)
Petra Sumasgutner (U. Vienna)
Diego Sustaita (U. Connecticut)
Sarah Thompson (U. Minnesota)
Judit Ungvari-Martin (Florida Museum of Natural History)
Elizabeth Urban (U. Arizona)
Alma Melisa Vázquez López (U. Nacional Autónoma de México)
Cynthia Martins Villar (U. Federal de São Carlos)
David W. Bradley (U. Waikato)
Jennifer Wagner (Ball State U.)
Christy Wails (Pennsylvania State U.)
Lauren Walker (U. Washington)
Sarah Wallace (Queen's U.)
Suzanne Whitney (Texas State U.)
Whitney Wiest (U. Delaware)
Kelly William-Sieg (Ohio U.)
Stephanie Wright (Ohio State U.)

Katherine Wyman (U. Minnesota)
Theodore Zenzal-Jr. (U. Southern Mississippi)
Yufeng Zhang (U. South Dakota)

POSTDOCTORAL TRAVEL AWARDEES

Thanks to Dan Ardia, Troy Murphy, Diane Neudorf, Colin Studds, Chris Witt, and Kerri Vierling for reviewing postdoc travel applications.

Sonya Auer (U. of Montana)
Kristina Cockle (Louisiana State U.)
William Cox (U. Missouri)
Shannon Farrell (Texas A&M)
Kevin Fraser (York U.)
Marisa King (U. South Dakota)
Chris Merkford (U. South Dakota)
Amy Newman (U. Guelph)
James Rivers (Oregon State U.)
Brian Smith (Louisiana State U.)
Corey Tarwater (U. of California at Berkeley)

STUDENT PRESENTATION AWARDS

The Student Presentation Awards is a joint program sponsored by most of the societies participating in NAOC-V. Students whose presentations are marked by asterisks (*) are "Finalists" whose presentations will be considered for awards. The SPA Committee chose Finalists from information provided in applications that included an expanded abstract, with evaluation based on (a) the context and goals of the study, (b) clarity of presentation of methods and results, (c) completeness of the study, and (d) potential significance and originality of the findings.

The SPA committee is also evaluating all Undergraduate presentations for separate awards that are restricted to students at that level. These student presentations are indicated by the following: (*U).

Please visit our exhibitors in the Exhibition Hall, Student Rec Centre



Mercury in the Environment

Pattern and Process
Edited by Michael S. Bank
\$95.00 cloth

Wetland Habitats of North America

Ecology and Conservation Concerns
Edited by Darold P. Batzer and Andrew H. Baldwin
\$125.00 cloth

Ecology of Freshwater and Estuarine Wetlands

Edited by Darold P. Batzer and Rebecca R. Sharitz
\$65.00 cloth

Shorebird Ecology, Conservation, and Management

Mark A. Colwell
\$60.00 cloth

Top 100 Birding Sites of the World

Dominic Couzens
\$50.00 cloth

Roots of Ecology

Antiquity to Haeckel
Frank N. Egerton
\$75.00 cloth

Encyclopedia of Theoretical Ecology

Edited by Alan Hastings and Louis J. Gross
Encyclopedias of the Natural World, \$150.00 cloth

JOURNALS

www.ucpressjournals.com

The Auk
The Condor
Ornithological Monographs

The Ecological World View

Charles Krebs
\$59.95 paper

Leopold's Shack and Ricketts's Lab

The Emergence of Environmentalism
Michael J. Lannoo
\$29.95 cloth

Protecting Life on Earth

An Introduction to the Science of Conservation
Michael P. Marchetti and Peter B. Moyle
\$49.95 paper

Field Guide to Owls of California and the West

Hans Peeters
California Natural History Guides, \$55.00 cloth, \$21.95 paper

Evolution's Wedge

Competition and the Origins of Diversity
David W. Pfennig and Karin S. Pfennig
Organisms and Environments, \$75.00 cloth

Encyclopedia of Biological Invasions

Edited by Daniel Simberloff and Marcel Rejmánek
Encyclopedias of the Natural World, \$95.00 cloth

The Atlas of Global Conservation

Changes, Challenges, and Opportunities to Make a Difference
Jonathan Hoekstra, Jennifer L. Molnar, Michael Jennings, Carmen Revenga, Mark D. Spalding, Timothy M. Boucher, James C. Robertson, and Thomas J. Heibel, with Katherine Ellison
\$55.00 cloth

STUDIES IN AVIAN BIOLOGY

Arctic Shorebirds in North America

A Decade of Monitoring
Edited by Jonathan Bart and Victoria Johnston
\$80.00 cloth

Population Demography of Northern Spotted Owls

Eric D. Forsman et al.
\$39.95 cloth

Urban Bird Ecology and Conservation

Edited by Christopher A. Lepczyk and Paige S. Warren
\$70.00 cloth

Greater Sage-Grouse

Ecology and Conservation of a Landscape Species and Its Habitats
Edited by Steven T. Knick and John W. Connally
\$95.00 cloth

Emerging Avian Disease

Edited by Ellen Paul
\$39.95 cloth

Video Surveillance of Nesting Birds

Edited by Christine A. Ribic, Frank R. Thompson III, and Pamela J. Pietz
\$65.00 cloth

Ecology, Conservation, and Management of Grouse

Edited by Brett K. Sandercock, Kathy Martin, and Gernot Segelbacher
\$70.00 cloth

Boreal Birds of North America

A Hemispheric View of Their Conservation Links and Significance
Edited by Jeffrey V. Wells
\$39.95 cloth



UNIVERSITY OF CALIFORNIA PRESS

NAOC-V FUNCTION SCHEDULE

SUNDAY, 12 AUGUST

TIME	EVENT	ROOM
8:30 am – 5:00 pm	Workshop: Estimating avian abundance and occupancy with marked and unmarked individuals	IBLC 261
9:00 am – 5:00 pm	PIF International Science Committee Meeting	Ruth Blair C, Gage Commons block

MONDAY, 13 AUGUST

TIME	EVENT	ROOM
8:30 am – 5:00 pm	Workshop: Estimating avian abundance and occupancy with marked and unmarked individuals	IBLC 261
10:00 am – 12:00 pm	PIF International Meeting	Multimedia Room, Gage Commons block
1:00 pm – 5:00 pm	PIF Student Symposium	Multimedia Room, Gage Commons block
2:00 pm – 5:00 pm	SFO Committee Meeting	SUB 209
5:00 pm – 10:00 pm	COS Board Meeting	SUB 207
5:00 pm – 6:00 pm	CIPAMEX Council Meeting	
6:00 pm – 9:00 pm	AOU Council Meeting	SUB 209
7:00 pm – 9:00 pm	Public Lecture: Bridget Stutchbury	Frederic Wood Theatre

TUESDAY, 14 AUGUST

TIME	EVENT	ROOM
8:30 am – 5:00 pm	Workshop: Estimating avian abundance and occupancy with marked and unmarked individuals	IBLC 261
8:00 am – 4:00 pm	AOU Council Meeting	SUB 205
8:00 am – 5:00 pm	COS Board Meeting	SUB 216
8:30 am – 12:00 pm	Workshop: How a manuscript becomes a paper: writing and reviewing scientific papers	Buchanan A103
8:30 am – 4:00 pm	Workshop: North American Ornithological Atlas Committee (NORAC)	Ruth Blair C, Gage Commons block
9:00 am – 12:00 pm	VertNet Roundtable Discussion	Mary Murrin 2, Gage Commons block
9:00 am – 5:00 pm	Waterbird Society Council Meeting	SUB 211
	AFO Council Meeting	SUB 215
	PIF – Western Working Group Meeting	SUB 209
10:00 am – 4:00 pm	SCO/SOC Council Meeting	SUB 214
1:00 pm – 4:00 pm	Workshop: Getting the message out: How to communicate your research effectively through the media	Buchanan A103
1:00 pm – 4:30 pm	Workshop: The status of Gavia: Conservation in black and white	Buchanan B213
1:00 pm – 5:00 pm	Workshop: Using and contributing to avian collections	Beatty Auditorium - Beatty Biodiversity Museum
2:00 pm – 6:00 pm	Exhibit Booth set up	Student Recreation Centre (SRC)
2:00 pm – 9:00 pm	Registration	Party room, Student Union Building (SUB)
4:00 pm – 5:30 pm	AOU Fellows Meeting	Buchanan A202
5:00 pm – 7:00 pm	Bird Studies Canada Meeting	SUB 207
5:30 pm – 7:00 pm	AOU Fellows Dinner	Sage Bistro –ticketed event
7:00 pm – 9:30 pm	Opening Reception	Ballroom, Foyer and Courtyard (SUB)

WEDNESDAY, 15 AUGUST

TIME	EVENT	ROOM
7:00 am - 5:00 pm	Registration & Information	SUB: Party room
8:00 am - 8:30 am	Welcome & Announcements	Chan Centre
8:30 am - 9:30 am	Plenary: Fiona Schmiegelow	Chan Centre
9:30 am - 9:45 am	Housekeeping Announcements	Chan Centre
9:45 am - 10:00 am	SCO-SOC Awards	Chan Centre
10:00 am - 10:30 am	Coffee Break	3 Locations – Buchanan A, Chemistry & Hennings
10:00 am - 7:00 pm	Exhibit & Poster Hall Open Silent Auction	Student Recreation Centre (SRC) SUB 214/216
10:30 am- 12:00 pm	Concurrent Sessions: W1: Behaviour W2: Climate W3: Community ecology W4: Evolution W5: Conservation W6: Landscape ecology W7: Migration and stopover W8: Phylogeography W9: Population biology W10: Models and methods	Hennings 200 Hennings 201 Hennings 202 Buchanan A102 Buchanan A103 Buchanan A104 BuchananA201 Buchanan A202 Chemistry B150 Chemistry B250
12:00 pm - 1:30 pm	Lunch Student-Mentor Lunch OSNA Meeting	PSP Cafeteria, SUB – <i>for those with Lunch Plans</i> SUB Ballroom – <i>ticketed event</i> SUB 205
12:45 pm - 4:15 pm	OC Permit Clinics (Drop In)	Buchanan B206
1:30 pm - 3:00 pm	Symposia: S1: Assessing bird populations at regional to continental scales: results from innovative approaches to data intensive analyses of North American birds S2: Tracking long distance migration of small birds: new discoveries in migration ecology S3: Assessing the impact of marine renewable energy installations on birds: lessons learned Concurrent Sessions: W11: Molecular ecology W12: Conservation W13: Conservation W14: Foraging W15: Evolution W16: Models and methods W17: Habitat relationships	Hennings 200 Hennings 201 Hennings 202 Buchanan A102 Buchanan A103 Buchanan A104 BuchananA201 Buchanan A202 Chemistry B150 Chemistry B250
3:00 pm - 3:30 pm	Coffee Break	3 Locations – Buchanan A, Chemistry & Hennings
3:30 pm - 5:00 pm	Symposia continued Concurrent Sessions continued	Various Various
4:00 pm - 5:30 pm	SCO/SOC Annual Meeting	Buchanan A203
5:00 pm - 7:30 pm	Organization for Tropical Studies Mixer	Mahony & Sons Public House, UBC
5:00 pm - 7:00 pm	Poster Session 1 – Day One	Student Recreation Centre (SRC)
5:30 pm - 6:30 pm	CIPAMEX Council Meeting	
7:00 pm - 9:00 pm	SFO Discussion Aerial Insectivore Conservation Mtg	Frederic Wood Theatre Buchanan A202
7:00 pm - 8:30 pm	People of a Feather (Film)	SUB Auditorium – <i>ticketed event</i>
8:00 pm - late	Bird Band Jam	Biltmore Cabaret (Off Campus) - <i>ticketed event</i>

THURSDAY, 16 AUGUST

TIME	EVENT	ROOM
6:45am – 7:30 pm	All-Out Ostrich Uproar 5Km Race	Start/Finish Flagpole Plaza by the Chan Centre
8:00 am – 5:00 pm	Registration & Information	SUB: Party room
8:00 am – 8:30 am	Morning Announcements	Chan Centre
8:30 am – 9:30 am	Plenary: Irby Lovette	Chan Centre
9:30 am – 10:00 am	WOS Awards	Chan Centre
10:00 am – 10:30 am	Coffee Break	3 Locations – Buchanan A, Chemistry & Hennings
10:00 am – 7:00 pm	Exhibit & Poster Hall Open	Student Recreation Centre (SRC)
10:00 am – 7:30 pm	Silent Auction viewing	SUB 214/216
10:30 am- 12:00 pm	Concurrent Sessions: T1: Biogeography T2: Urban ecology T3: Migration and stopover T4: Diseases and parasites T5: Behaviour T6: Songs and vocalizations T7: Physiology and hormones T8: Conservation T9: Ecology T10: Mating systems	Hennings 200 Hennings 201 Hennings 202 Buchanan A102 Buchanan A103 Buchanan A104 BuchananA201 Buchanan A202 Chemistry B150 Chemistry B250
12:00 pm – 1:30 pm	Lunch AOU Editorial Board Luncheon CIPAMEX Business Meeting COS Business Meeting Waterbird Society Luncheon	PSP Cafeteria, SUB – <i>for those with Lunch Plans</i> Ruth Blair C, Gage Commons block Buchanan A202 Chemistry B250 Sage Bistro – <i>ticketed event</i>
12:45 pm – 4:15 pm	OC Permit Clinics (Drop In)	Buchanan B206
1:30 pm – 3:00 pm	Symposia: S4: Recent Advances in Acoustic Monitoring of Birds S5: The application of next-generation sequencing to ornithological research S6: Tracking migratory stopover phenology: Climate change and the phonological synchrony of North American bird migration with seasonal resources Concurrent Sessions: T11: Ecology T12: Breeding biology T13: Phylogeography T14: Conservation T15: Conservation T16: Ecotoxicology & Pollution T17: Movements and dispersal	Hennings 200 Hennings 201 Hennings 202 Buchanan A201 Buchanan A202 Buchanan A102 BuchananA103 Buchanan A104 Chemistry B150 Chemistry B250
3:00 pm - 3:30 pm	Coffee Break	3 Locations – Buchanan A, Chemistry & Hennings
3:30 pm – 5:00 pm	Symposia continued Concurrent Sessions continued	Various Various
5:00 pm – 6:00 pm	Poster Session 1 – Day Two Waterbird Society Business Meeting	Student Recreation Centre (SRC) SUB 209
6:00 pm – 7:30pm	Silent Auction - Live auction with cash bar	SUB 214/216
7:00 pm – 9:00 pm	AOU Business Meeting	Hebb Theatre

FRIDAY, 17 AUGUST

TIME	EVENT	ROOM
8:00 am – 5:00 pm	Registration & Information	SUB: Party room
8:00 am – 8:30 am	Announcements	Chan Centre
8:30 am – 9:30 am	Plenary: Roxanna Torres	Chan Centre
9:30 am – 9:45 am	COS Awards	Chan Centre
9:45 am – 10:00 am	RRF Awards	Chan Centre
10:00 am – 10:30 am	Coffee Break	3 Locations – Buchanan A, Chemistry & Hennings
10:00 am – 7:00 pm	Exhibit & Poster Hall Open	Student Recreation Centre (SRC)
10:30 am – 11:30am	COS – Young Investigator Award	Buchanan A201
10:30 am- 12:00 pm	Concurrent Sessions F1: Models and methods F2: Population biology F3: Conservation F4: Tropical ecology F5: Community ecology F6: Parental care F7: Physiology, hormones F8: Sexual selection F9: Migration and stopover	Hennings 202 Hennings 200 Hennings 201 Chemistry B150 Buchanan A202 Buchanan A102 Buchanan A103 Buchanan A104 Chemistry B250
12:00 pm – 1:30 pm	Lunch Condor Editorial Board Meeting	PSP Cafeteria, SUB – <i>for those with Lunch Plans</i> SUB 216
12:00 pm – 2:00 pm	U.S. versus Canada Softball Game	Wolfson Field East - <i>South part of UBC Campus</i>
12:00 pm – 12:45 pm	WOS Business Meeting	Buchanan A101
12:45 pm – 1:30 pm	AFO Business Meeting	Buchanan A101
1:30 pm – 3:00 pm	Symposia S7: Phylogenetics, diversification and conservation of all birds S8: Tropical challenges: priorities in Mexican ornithology S9: Movement ecology of migratory birds in relation to an ecological barrier across different levels of analysis: Lessons from two major regional systems Concurrent Sessions F10: Behaviour F11: Breeding biology F12: Climate F13: Conservation F14: Conservation F15: Life histories F16: Habitat relationships	Hennings 200 Hennings 201 Hennings 202 Buchanan A201 Buchanan A202 Buchanan A102 BuchananA103 Buchanan A104 Chemistry B150 Chemistry B250
3:00 pm - 3:30 pm	Coffee Break	3 Locations – Buchanan A, Chemistry & Hennings
3:30 pm- 5:00 pm	Symposia continued Concurrent Sessions continued	Various Various
5:00 pm – 7:00 pm	Poster Session 2 – Day One AOU Council Meeting	Student Recreation Centre (SRC) Buchanan A202
7:00 pm – 8:30 pm	Student-Professional Dinner	SUB Ballroom – <i>ticketed event</i>
8:30 pm – 10:00 pm	Quiz Bowl	SUB Ballroom

SATURDAY, 18 AUGUST

TIME	EVENT	ROOM
8:00 am – 4:00 pm	Registration & Information	SUB: Party room
8:00 am – 8:30 am	Welcome & Announcements	Chan Centre
8:30 am – 9:30 am	Plenary: Peter Marra	Chan Centre
9:30 am – 10:00 am	AOU Awards	Chan Centre
10:00 am – 10:30 am	Coffee Break	3 Locations – Buchanan A, Chemistry & Hennings
10:00 am – 7:00 pm	Exhibit & Poster Hall Open	Student Recreation Centre (SRC)
10:30 am- 12:00 pm	Concurrent Sessions SAT1: Evolution SAT2: Population biology SAT3: Movements and dispersals SAT4: Urban ecology SAT5: Behaviour SAT6: Breeding biology SAT7: Climate SAT8: Migration and stopover SAT9: Ecology SAT10: Ecotoxicology & Pollution	Hennings 200 Hennings 201 Hennings 202 Buchanan A103 Buchanan A202 Buchanan A203 Chemistry D200 Chemistry D300 Chemistry B150 Chemistry B250
12:00 – 1:30 pm	Lunch RRF Business Meeting SFO Committee Meeting	PSP Cafeteria, SUB – <i>for those with Lunch Plans</i> SUB 216 Gage Mary Murrin 2
1:30 pm – 3:00 pm	Symposia S10: Integrating avian physiology and ecology: phenotypic variation and fitness S11: Avian disease ecology: from the individual to the landscape S12: Hot topics in the Tropics: Research to support full life-cycle conservation of migrants Concurrent Sessions SAT11: Systematics, taxonomy SAT12: Sexual selection <i>*half session</i> SAT13: Songs and vocalizations SAT14: Conservation SAT15: Evolution SAT16: Migration and stopover SAT17: Habitat relationships	Hennings 200 Hennings 201 Hennings 202 Chemistry D200 Buchanan A103 Buchanan A202 Buchanan A203 Chemistry D300 Chemistry B150 Chemistry B250
3:00 pm - 3:30 pm	Coffee Break	3 Locations – Buchanan A, Chemistry & Hennings
3:30 pm- 5:00 pm	Symposia continued Concurrent Sessions continued	Various Various
3:30 pm – 5:00 pm	SAT18: Molecular Ecology <i>*half session</i>	Buchanan A103
5:00 pm – 6:00 pm	Poster Session 2 – Day Two	Student Recreation Centre (SRC)
6:30pm – 7:00 pm	Student Presentation Awards	Great Hall, Museum of Anthropology
6:30 pm – late	Conference Banquet	Museum of Anthropology – <i>ticketed event</i>

SUNDAY, 19 AUGUST

TIME	EVENT	ROOM
Various	Field Trips	Pick up in front of Walter Gage Residence
9:00 am – 4:00 pm	Enhancing automated analysis of acoustic monitoring data	Mary Murrin 2, Gage Commons block
Sunday, 19 – Wednesday, 22 August	Bird-Banding Techniques	SUB 212A

PLENARY SPEAKERS

Plenary Sessions and awards will be held 8:00 AM - 10:00 AM in the Chan Centre

Wednesday, 15 August - Fiona Schmiegelow



"An odyssey of boreal bird research and conservation in Canada"

Dr. Fiona Schmiegelow is currently a professor at the University of Alberta, where she directs the Northern Environmental and Conservation Science Program. Based in the Yukon Territory, Canada, where the program is being delivered, Fiona has unique opportunities to experience some of the most pristine environments remaining in the northern hemisphere. For the past 20 years, Fiona has been fascinated by boreal systems, with her initial passion sparked by boreal bird communities and their response to landscape change in more southern regions of Canada. Her research into these questions is characterized by large-scale experimental field studies and complementary, collaborative modelling initiatives involving extensive datasets. Increasingly, Dr. Schmiegelow interests lie at the interface of science and policy, and she welcomes opportunities to engage in related processes to identify tractable solutions to pressing conservation challenges facing boreal systems and the species that depend on them. In 2010, Dr. Schmiegelow published a co-authored book with Malcolm L. Hunter Jr entitled 'Wildlife, Forests and Forestry: Principles of Managing Forests for Biological Diversity'.

Sponsored by: UBC – Faculty of Forestry

Friday, 17 August - Roxanna Torres



"Sexual selection from a life history perspective: Colour communication in a seabird"

Dr. Torres studied Biology at the Metropolitan University of Mexico, obtained a PhD in Ecology at the Universidad Nacional Autonoma de Mexico (UNAM), and then worked as a postdoctoral researcher at Simon Fraser University in Canada in collaboration with Dr. Fred Cook. Currently, Roxana is a full time researcher at the Institute of Ecology - UNAM. Her research interests focus on the evolutionary biology of breeding systems. Using seabirds as models, Roxana and collaborators have investigated various aspects of mate choice, sexual signalling, life history strategies and how they change as the individual age. Her research uses a combination of field experiments as well as data from a long-term monitoring project on the breeding biology of a long-lived seabird, which allows her research group to link physiological parameters (e.g., oxidative status) with sexual signaling, mating preferences, breeding strategies and senescence.

Sponsored by: SFU – Faculty of Science & Biological Sciences Department

Thursday, 16 August - Irby Lovette



"Historical perspectives on the evolution of warbler diversity, behavior, and ecology"

Irby Lovette runs the Evolutionary Biology Program at the Cornell Lab of Ornithology, where he is an Associate Professor in Ecology and Evolutionary Biology. His research centers on questions about the generation and maintenance of evolutionary diversity in avian systems across levels of biological organization that span genes to behavior. Using a combination of phylogenetic, comparative, and experimental methodologies, he explores temporal and geographic patterns of diversification and tests hypotheses about the historical processes that produce those patterns, and about their consequences for the present-day ecology, conservation, and behavior of birds and other organisms. His recent work has included projects on the radiation of wood-warblers, starlings and mockingbirds, and Australian skinks. Irby's training included work with Dick Holmes (Dartmouth College) as an undergraduate, and with Bob Ricklefs (U. Pennsylvania) for his PhD.

Sponsored by: UBC – Faculty of Science

Saturday, 18 August - Peter Marra



"Studying birds in the context of the annual cycle: Carry-over effects and seasonal interactions"

Pete Marra earned a Ph.D. from Dartmouth College in 1998 and has been a conservation scientist at the Smithsonian Institution's Conservation Biology Institute since 1999. Pete's research in avian conservation science has three broad themes: ecology of migratory birds, urban ecosystem ecology and disease ecology. His primary interests lie in gaining a mechanistic understanding of the factors that control the persistence and dynamics of populations. Pete takes an integrative and collaborative approach to his research by considering the roles of climate, habitat, food, pathogens, and physiology on the individual condition of both migratory and resident birds and their populations. His research is both fundamental and applied, often incorporates novel tools such as stable isotopes, and emphasizes incorporating events throughout the annual cycle to understand how complex interactions across seasons drive the ecology and evolution of life history strategies. All of his research is grounded in a solid understanding of the natural history of the organisms his group studies. Communicating his science and his excitement for the conservation of wildlife to as wide an audience as possible, including the general public, is a high priority of his overall program.

Sponsored by: Environment Canada

NAOC-V EXHIBITORS

Accipiter Radar http://www.accipiterradar.com/page/name/home	Booth #21	Hawl-Owl Systems PO Box 689 Esses, MT 59916 http://www.hawkowl.com	Booth #14
American Bird Conservancy PO Box 249, 4249 Londonn Avenue The Plains, VA 20198 http://www.abcbirds.org	Booth #15	Holohil Systems Ltd. - Bronze Sponsor 112 John Cavanagh Road Carp, ON K0A 1L0 http://www.holohil.com	Booth #7
American Wildlife Enterprises 737 Silver Lake Road Monticello, FL 32344 http://www.americanwildlifeenterprises.com	Booth #4	Journal Avian Conservation & Ecology / SCOSOC http://www.ace-eco.org	Booth #26
Bird Studies Canada 5421 Robertson Road Delta, BC V4L 1C8 http://www.bsc-eoc.org	Booth #25	Kim Middleton – Avian Artist 71 Aeroview Lane Eastsound, WA 98245 http://kimmiddleton.com	Booth #31
BlueSky Helicopters, Inc 1675 Verona Drive Redmonds, CA 92374	Booth #17	Klamath Bird Observatory PO Box 758 Ashland, OR 97520 http://www.klamathbird.org	Booth #11
Cornell Lab of Ornithology http://www.birds.cornell.edu/Page.aspx?pid=1478	Booth #19	Kowa Sporting Optics http://kowa-sporting-optics.com	Booth #22
Cornell University Press 512 East State Street Sage House Ithaca, NY 14850 http://www.cornellpress.cornell.edu	Booth #28	Leica Sport Optics http://en.leica-camera.com/sport_optics	Booth #32
Creston Valley Wildlife Management Authority PO Box 640 Creston, BC V0B 1G0 https://www.crestonwildlife.ca	Booth #12	Lotek / Biotrack / Sirtrack 115 Pony Drive Newmarket, ON L3Y 7B5 http://www.lotek.com/biotrack.htm	Booth #23
CSIRO Publishing http://www.publish.csiro.au	Booth #8	Lynx Edicions Montserrat, 8 Bellaterra, Barcelona 08193 Spain http://www.lynxeds.com	Booth #3
DeTect Inc 1430 Harrison Ave Panama City, IL 32405 http://www.detect-inc.com	Booth #36	North American Banding Council PO Box 758 Ashland, OR 97520 http://www.nabanding.net	Booth #13
EchoTrack Inc. 1015 Ironwork Passage Vancouver, BC V6H 3R4 http://echotrack.com	Booth #6	Partners in Flight 1387 S. Vinnell Way Boise, ID 83709 http://www.partnersinflight.org	Booth #9
Environment Canada Platinum Sponsor	Booth #24		



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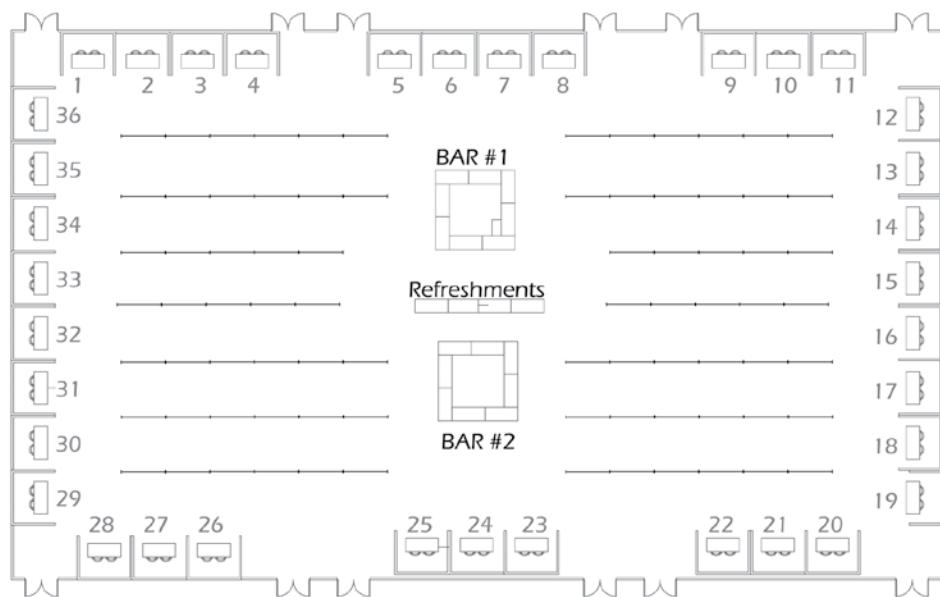
www.BeringiaSouth.org



Reconyx Inc. 3828 Creekside Lane Holmen, WI 54636 http://www.reconyx.com	Booth #30	Society for Ornithology Susan Haig	Booth #20
Rite in the Rain 261 Pacific Hwy E Tacoma, WA 98424 http://www.riteintherain.com	Booth #33	Society for the Preservation of Natural History Collections (SPNHC) Planetarium Station, PO Box 526 New York, NY 10024-0526 http://www.spnhc.org	Booth #34
Rocky Mountain Bird Observatory PO Box 1232 Brighton, CO 80601 http://www.rmbo.org	Booth #10	University of California Press http://www.ucpress.edu	Booth #27
Rocky Point Bird Observatory 170 – 1581 H Hillside Avenue Victoria, BC V8M 1T1 http://www.rpbo.org	Booth #18	Vancouver Avian Research Centre http://www.birdvancouver.com	Booth #5
Russell Technologies Inc 219 – 255 West 1 st Street North Vancouver, BC V7M 2G8 http://www.russelltechnologies.ca	Booth #2	Waterbird Society 2630 Fanta Reed Road La Crosse, WI 54603 http://www.waterbirds.org	Booth #16

NAOC-V 2012 EXHIBITS & POSTERS

Exhibitors:



36 - 10' x 10' Exhibit Booths
80 - 8' x 4' Poster boards

Please note: this floorplan is subject to change



- 1 – available
- 2 – Russell Technologies
- 3 – Lynx Edicions
- 4 – American Wildlife Enterprises
- 5 – Vancouver Avian Research Centre
- 6 – Echo Track Inc
- 7 – Holohil Systems Ltd
- 8 – CSIRO Publishing
- 9 – Partners in Flight
- 10 – Rocky Mountain Bird Observatory
- 11 – Klamath Bird Observatory
- 12 – Creston Valley Wildlife Mgmt Authority
- 13 – North American Banding Council
- 14 – Hawk-Owl Systems
- 15 – American Bird Conservancy
- 16 – Waterbird Society
- 17 – BlueSky Helicopters, Inc.
- 18 – Rocky Point Bird Observatory
- 19 – Cornell Lab of Ornithology
- 20 – Society for Ornithologists
- 21 – Accipiter Radar
- 22 – Kowa Sporting Optics
- 23 – Lotek/Biotrack/Sirtrack
- 24 – Environment Canada
- 25 – Bird Studies Canada
- 26 – Journal Avian Conservation & Ecology
- 27 – University of California Press
- 28 – Cornell University Press
- 29 – available
- 30 – Reconyx Inc
- 31 – Kim Middleton - Avian Artist
- 32 – Leica Sport Optics
- 33 – Rite in the Rain
- 34 – Society for the Preservation of Natural History Collections
- 35 – available
- 36 – DetTect Inc.

WEDNESDAY, 15 AUGUST - Morning Sessions, W1 - W5

Room	Hennings 200	Hennings 201	Hennings 202	Buchanan A102	Buchanan A103
Session	W1. Behaviour	W2. Climate (predict)	W3. Community ecology	W4. Evolution	W5. Conservation
10:30	W1.1 Norris, A.* ; A double resource pulse of food and nest cavities increases intra- and inter-specific competition in cavity-dependent insectivores in interior British Columbia, Canada	W2.1 Purcell, K. ; Avian population trends and predicting response to climate change based on 27 years of data from California oak woodlands	W3.1 Gomez, J.P. ; A phylogenetic approach to disentangling the role of competition and habitat filtering in community assembly of Neotropical forest birds	W4.1 Winger, B. ; A genomic approach to understanding allopatric speciation in montane birds	W5.1 Macias-Duarte, A. ; Abundance and distribution of wintering grassland birds in chihuahuan desert grassland priority conservation areas from 2007-2011
10:45	W1.2 Allen, M. ; A pathway of destruction: demonstrating how anti-predator behaviours can carry costs that cause nestlings to die	W2.2 Conway, M. ; Effects of a drier climate on breeding phenology and clutch size in burrowing owls	W3.2 Niemi, G. ; Breeding Bird Communities and Population Trends in the Western Great Lakes Region, USA	W4.2 Claramunt, S. ; Andean uplift, climate change and macroevolutionary patterns of diversification in the Furnariidae	W5.2 Camfield, A. ; All-bird conservation planning in Canada
11:00	W1.3 Marzluff, J. ; Brain imaging reveals neuronal circuitry underlying the crow's perception of human faces	W2.3 Kreuser, J.* ; Evaluating the relationship between climate change, range shifts, and differential guild responses of Michigan breeding birds	W3.3 Wiens, J.D. ; Competitive interactions and resource partitioning between northern spotted owls and barred owls	W4.3 Essak, M. ; Consistent directional selection on breeding date in song sparrows	W5.3 Arcese, P. ; Birds as indicators of 'ecological integrity' and human influence: using occupancy maps to prioritize conservation effort
11:15	W1.4 Villard, M-A. ; Can forest management inspired from natural disturbance regimes create ecological traps? A field experiment featuring Ovenbird and Brown Creeper	W2.4 Steen, V. ; Potential Effects of Climate Change on Wetland-associated Birds in the Prairie Pothole Region, U.S.A.	W3.4 Jusino, M. ; Demystifying the relationship between Red-cockaded Woodpeckers and heartwood inhabiting fungi	W4.4 Danner, J. ; Cultural divergence as a driver of genetic divergence in a tropical bird	W5.4 Marín-Togo, M.C. ; Connectivity and priority sites for conserving Psittacidae on the Mexican Pacific coast
11:30	W1.5 Jones, M. ; Cooperative male display in the White-ruffed Manakin (<i>Corapipo altera</i>)	W2.5 Calle, L.* ; Predicted changes in foraging habitat of the Little Blue Heron (<i>Egretta caerulea</i>) as a function of sea level rise in the Great White Heron National Wildlife Refuge, FL, USA	W3.5 Boyer, A. ; Effects of Extinctions and Introductions on the Functional Ecology of Hawaiian Bird Communities	W4.5 Hudon, J. ; Disruption of Carotenoid Pathways in Hybrid Northern Flickers: The Path to Speciation	W5.5 Bonnot, T. ; Landscape-based population viability models demonstrate importance of strategic conservation planning for birds
11:45	W1.6 Ringelman, K. ; Dearest neighbors: conspecific cueing and adaptive nest clustering in waterfowl	W2.6 LaRoche, D. ; The future of southwestern riparian birds in a changing climate; changes in species composition due to declines in available water and riparian vegetation.	W3.6 Cockle, K. ; From static to dynamic 'nest webs': Changes in the architecture of an interspecific network of cavity-nesters over 12 years during an outbreak of Mountain Pine Beetle	End	W5.6 Rich, T. ; Using species vulnerability assessment to reduce uncertainty in setting bird conservation priorities in North America
Lunch					

WEDNESDAY, 15 AUGUST - Morning Sessions, W6 - W10

Buchanan A104	Buchanan A201	Buchanan A202	Chemistry B150	Chemistry B250	Room
W6. Landscape ecology	W7. Migration & stopover	W8. Phylogeography	W9. Population biology	W10. Models & methods	Session
W6.1 Howerter, D. ; Assessing Change in Waterfowl Abundance Relative to Anthrpogenic Disturbance Across Canada's Boreal Plains	W7.1 Hawk, L.C. ; Application of Light-level Geolocation to Migratory Bird Management	W8.1 Smith, B.T. ; Comparative phylogeography of lowland neotropical birds with cross-andes distributions	W9.1 Wilson, S. ; Declines or redistribution? Population trends of Western Grebes wintering along the Pacific Coast	W10.1 Borgmann, K. ; A new method to measure nest concealment	10:30
W6.2 Hadley, A. ; Bigger is better: Size of tropical forest patches, not total forest cover, is associated with pollination of an ornithophilous understory herb	W7.2 Contreras, S. ; Bird Migration Patterns in the Lower Gulf Coast Region of Texas	W8.2 Hindley, J. ; East coast, west coast and in-between: phylogeographic structure of black-capped chickadee	W9.2 Szostek, L. ; Density dependent regulation in Common Tern (<i>Sterna hirundo</i>) colonies	W10.2 Shaffer, T. ; Are Roadside Surveys of Secretive Marsh Birds in the Prairie Pothole Region Biased?	10:45
W6.3 Ng, J. ; Influence of environmental and anthropogenic factors on ferruginous hawk home range selection	W7.3 Yezerinac, S. ; Connecting Dunlin breeding sites with migratory stopover and wintering locations using light-level geolocation	W8.3 Manthey, J. ; Ecological selection or environmental drift in western North American phylo-species?	W9.3 Drake, A. ; ENSO-driven westerly winds during spring migration influences breeding phenology, productivity and annual survival of a neotropical migrant on the western flyway	W10.3 Hannah, K. ; Bring on the night: using autonomous recording units to help develop survey designs for common nighthawks in boreal landscapes.	11:00
W6.4 Knowlton, J.L. ; Interactive effects of invasive rats and forest fragmentation on density, nest survival, and behavior of native Hawaiian birds	W7.4 Gardiner, R. ; Differences in morphology influence the stopover ecology of two Calidrid sandpipers on southward migration	W8.4 Pruett, C. ; Evidence from the genetics of eleven landbird species for a forested refugium in the Haida Gwaii area	W9.4 Dybala, K.* ; Effects of weather and fledge date on survival in juvenile Song Sparrows vary by developmental stage	W10.4 Peele, A. ; Calibrating point-count surveys using intensive territory mapping: estimating density of migratory passerine populations in wintering habitats	11:15
W6.5 Ozelski, A. ; Landscape composition differs with age structure in populations of Yellow Warblers (<i>Setophaga petechia</i>) in the Midwest United States	W7.5 Gómez, V. ; Diversity and abundance of Neotropical migratory landbirds across an altitudinal gradient in northern Colombia during spring migration	W8.5 Rauri, B. ; Gene trees, species trees and historical biogeography of the African Guineo-Congolian rainforest	W9.5 Cooper, N. ; Evidence for density-dependent effects of crowding during the non-breeding season in the American Redstart	W10.5 Robertson, E. ; Density, Breeding Stage, and Sex Affect Rail Broadcast Survey Results	11:30
W6.6 Miller, K. ; Northern Bobwhite Population Structure and Diversity in Texas and the Great Plains	W7.6 McKellar, A.* ; Experimentally delaying arrival timing reduces reproductive success of male American redstarts	W8.6 Zink, R. ; Inferring the location of glacial refugia using niche modeling and phylogeography	W9.6 Cann, R. ; Females lead demographic collapse of the endangered Hawaii creeper from competition with an introduced bird	W10.6 Lyons, J. ; Detection probability of shorebirds, waterfowl, and wading birds in vegetated wetlands	11:45
Lunch					

WEDNESDAY, 15 AUGUST - Early Afternoon Sessions, S1 - W12

Room	Hennings 200	Hennings 201	Hennings 202	Buchanan A102	Buchanan A103
Session	Symposium 1	Symposium 2	Symposium 3	W11: Molecular ecology	W12: Conservation
1:30	S1.1 Sauer, J. ; Accommodating geographic scale in the analysis of species groups from the North American Breeding Bird Survey	S2.1 Fraser, K. ; Constrained migration schedules in a trans-hemispheric migrant songbird	S3.1 Fox, T. ; Investigating effects of offshore wind facilities on birds: The Danish experience.	W11.1 Wheeler, M. ; Assessing the Genetic Diversity and Distinctness of Eastern North American Golden Eagles: Long Term Conservation Impacts of Exotic Introductions on a Small Native Population	W12.1 Nichols, K.S. ; Bird Collisions from an Architectural Perspective: An Analysis of a Long-term Citizen Science Monitoring Project
1:45	S1.2 Bayne, E. ; Estimating population sizes of landbirds from non-standardized point-count surveys in North America's boreal forest: making the most of a potentially messy situation	S2.2 Heckscher, C. ; Spatial and temporal aspects of intratropical movement of the Veery (<i>Catharus fuscescens</i>) using geolocators		W11.2 Saucier, J. ; Combining population and landscape genetic approaches to test divergence hypotheses in the <i>Thryothorus modestus</i> complex	W12.2 Hager, S. ; Avian mortality from window collisions is highest at only a small subset of buildings in an urban landscape
2:00	S1.3 Thogmartin, W. ; Extinction risk estimated for every bird adequately surveyed by the North American Breeding Bird Survey	S2.3 Renfrew, R. ; Migration of Bobolinks from across the breeding range	S3.2 Langston, R. ; Birds and Offshore Wind Farms: a UK perspective	W11.3 Alessi, S. ; Delayed dispersal and family living weakly influence kin-structuring in the neotropical Buff-breasted wren (<i>Cantorchilus leucotis</i>) in Gamboa, Panama	W12.3 Arnold, T. ; Collision Mortality in North American Birds
2:15	S1.4 Roy, C. ; Using the Waterfowl Breeding Population and Habitat Survey to identify spatial population dynamics in boreal ducks	S2.4 Tottrup, A. ; Year-round tracking reveals delayed spring arrival as a result of drought at African stopover sites in long-distance migratory songbirds		W11.4 Moulton, L. ; Evidence of genetic introgression found in last remaining "pure" population of Golden-winged Warblers	W12.4 Machtans, C. ; How Many Birds Die Every Year in Canada From Collisions with Buildings?
2:30	S1.5 Fink, D. ; The challenges of using continental-scale data to aid local decision-making	S2.5 MacDonald, C. ; Range-wide patterns of migratory connectivity in an arctic-breeding passerine, the Snow Bunting (<i>Plectrophenax nivalis</i>), revealed using band recoveries, geolocators and stable isotope analysis	S3.3 Paton, P. ; Assessing the potential impacts of offshore wind facilities on birds: in the beginning	W11.5 Kennedy, K. ; Examining the modes of selection maintaining the <i>Phaeopticus</i> Great Plains hybrid zone using genomic cline analysis of AFLP data	W12.5 Alsip, R. ; Preventing avian mortality using externally applied film markers.
2:45	S1.6 Cumming, S. ; Integrating avian habitat models and conservation planning across North America's boreal forest	S2.6 McFarland, K. ; Migratory movements and winter distribution of Bicknell's Thrush (<i>Catharus bicknelli</i>): gaining insights from geolocators		W11.6 Toews, D.* ; Introgression in the yellow-rumped warbler species complex: can variation in migratory behaviour explain differences in mitochondrial genotype and phenotype in a cryptic hybrid zone?	W12.6 Loss, S. ; The impact of feral and free-ranging house cats on birds in the United States

Coffee Break

WEDNESDAY, 15 AUGUST - Early Afternoon Sessions, W13 - W17

Buchanan A104	Buchanan A201	Buchanan A202	Chemistry B150	Chemistry B250	Room
W13: Conservation	W14: Foraging	W15: Evolution	W16: Models and methods	W17: Habitat relationships	Session
W13.1 Leonard, M.L. ; Ambient noise disrupts nestling begging responses in Tree Swallows	W14.1 Wiley, A. ; A millennial-scale record of foraging ecology in the endangered Hawaiian Petrel: Isotopic evidence of recent human impact to pelagic food webs	W15.1 Beckman, E. ; Sorting the South American siskins: the role of ecology in a rapid continental radiation	W16.1 Conkling, T. ; Discrepancy in nest survival estimates between search methods for grassland birds	W17.1 Tremblay, J.A. ; A case study of the interaction between landscape configuration and habitat use at a wind facility by Golden Eagles (<i>Aquila chrysaetos</i>)	1:30
W13.2 Francis, C. ; Anthropogenic noise alters key ecological services provided by birds	W14.2 Bonter, D. ; Cache economy: Inter-annual variability in reliance on supplemental food revealed by "smart" feeders	W15.2 Clark, A. ; Wanderers, colonists and urban dwellers: DRD4 gene and phenotypic variation among American crows (<i>Corvus brachyrhynchos</i>)	W16.2 Crewe, T. ; Effect of random variation and sampling intensity on the use of raptor migration count data for population monitoring	W17.2 Nuse, B. ; On the feasibility of predicting effects of sea level rise on tidal wetland birds: Examples from the Georgia coast.	1:45
W13.3 Myles, F. ; Are Bank Swallow populations eroding away?	W14.3 Hanson, M. ; Changes in the food habits of Breeding Bald Eagles (<i>Haliaeetus leucocephalus</i>) in Florida Bay, Everglades National Park	W15.3 Harvey, M.* ; Phylogeographic discord in the comparative genomics history of Neotropical birds	W16.3 Guerrero, M. ; Modeling breeding habitat preferences of Black capped Vireo in Mexico at different spatial scales	W17.3 LeBeau, C. ; Short-Term Impacts to Greater Sage-Grouse from Wind Energy Development	2:00
W13.4 Dibala, R. ; Conspecific Social Cues Strongly Influence Male Cerulean Warbler Settlement Patterns	W14.4 Lyons, D. ; Comparative foraging ecology of two sympatric piscivorous waterbirds in the Columbia River estuary, USA	W15.4 Stryjewski, K.* ; Speciation Genomics of an Extraordinary Avian Radiation, the Lonchura Munias in Papua New Guinea	W16.4 Crampton, L. ; Occupancy surveys for a critically endangered, highly cryptic, single island endemic, the Puaiohi	W17.4 Esler, D. ; Winter Site Selection by Surf Scoters Reflects Continental-Scale Trade-Offs	2:15
W13.5 Poole, A. ; Is the Caribbean Osprey at risk?	W14.5 Craig, E. ; Do winter foraging decisions affect breeding condition of Double-crested Cormorants? Exploring seasonal interactions in a migratory waterbird.	W15.5 Bitton, P-P.* ; Sympatry and plumage evolution in the genus Trogon	W16.5 Nolte, E. ; Raptors present, yet unobserved: Detectability at a western migration watch-site and its effect on trend analysis	W17.5 Porzig, E.* ; A time series meets a habitat model: Evaluating the influence of habitat change and population process on songbird abundance	2:30
W13.6 Mortensen, J. ; The role of social behavior in buffering populations from extinction: persistence of the endangered cooperatively breeding White-breasted Thrasher on St. Lucia	W14.6 Danner, R. ; Experimental support for adaptive mass regulation in a temperate migrant	W15.6 Jones, M. ; Immunogenetic adaptation and reproductive isolation along elevational gradients in Rufous-collared Sparrows	W16.6 Brown, S. ; Singing Rates of Radiotagged Bachman's Sparrows	W17.6 Routhier, D. ; Wetland Occupancy and Productivity Patterns of Grebes in Prairie Canada: Effects of Interspecific Competition, Wetland Structure and Landscape Composition	2:45
Coffee Break					

WEDNESDAY, 15 AUGUST - Late Afternoon Sessions, S1 - W12

Room	Hennings 200	Hennings 201	Hennings 202	Buchanan A102	Buchanan A103
Session	Symposium 1	Symposium 2	Symposium 3	W11: Molecular ecology	W12: Conservation
3:30	S1.7 Matthews, S. ; Integrating pattern and process across spatial scales to assess the potential effects of climate change on forest birds	S2.7 Gardali, T. ; Migratory connections of the Golden-crowned Sparrow and Swainson's Thrush: geography and strength	S3.4 Gordon, C. ; Utility of high resolution imaging surveys for offshore wind bird risk/impact studies	W11.7 Walsh, J. ; Introgression of morphological traits and neutral genetic variation in a hybrid zone between saltmarsh and nelson's sparrows	W12.7 Lounsberry, Z.* ; Conservation status of buff-breasted sandpipers (<i>tryngites subruficollis</i>): a conservation genetic approach
3:45	S1.8 Stralberg, D. ; Forest passerine distribution models and climate change projections for boreal North America: addressing challenges and uncertainties	S2.8 Hallworth, M. ; Quantifying migratory connectivity for a Neotropical migratory bird using direct and indirect techniques		W11.8 Wommack, E. ; Molecular analysis of a population decline in a long-standing breeding population of american kestrels in saskatchewan, canada	W12.8 Wallace, S.* ; Determining population genetic variation of Cassin's Auklet: are multiple conservation units needed?
4:00	S1.9 Veloz, S. ; Examining the tradeoffs between using citizen science data and standardized observations for modeling how climate change will affect the distribution and abundance of birds at regional scales	S2.9 Bridge, E. ; Manipulating migration: experimental examination of carry over effects on molt and movement in Painted Buntings.	S3.5 Mizrahi, D. ; Using marine radar to characterize avian movement dynamics in offshore marine environments: advantages, challenges and findings.	W11.9 Jedlicka, J. ; Molecular Tools Reveal Diets of Insectivorous Birds from Predator Fecal Matter	W12.9 Kapetanakos, Y. ; Filling in the gaps: Using non-invasive genetic mark-recapture to develop a comprehensive demographic assessment of critically endangered vultures in Cambodia
4:15	S1.10 LaSorte, F. ; Migration dynamics of North American birds	S2.10 Norris, R. ; Migratory connectivity and long-term demographics in Tree swallows		W11.10 Lerner, H. ; Next generation sequencing for population and phylogenetic studies: reference free mitochondrial genome sequencing across the avian tree of life	W12.10 Schulwitz, S. ; Isolated Population Of Greater Sage-Grouse In Northwest Wyoming Revealed By Microsatellite Data
4:30	S1.11 Winkler, D. ; Patterns in the survival and demography of <i>Tachycineta</i> swallows across the Western Hemisphere	S2.11 Smith, J. ; Exploring the annual cycle of Eastern Willets using geolocators and wet/dry activity loggers	S3.6 Pérez Lapeña, B. ; Statistical power in testing seabird displacement due to an offshore wind farm: a case study off the coast of Rhode Island	W11.11 Contina, A. ; Past, present, and future of the Painted Bunting: what can genetic markers tell us?	W12.11 Bishop, C. ; Population biology, genetics and identification of critical habitat of the endangered population of the Western Yellow-breasted Chat (<i>Icteria virens auricollis</i>) in BC
4:45	S1.12 DeSante, D. ; Using MAPS vital rates to identify demographic causes of population trends	S2.12 McKinnon, E.* ; Testing proximate hypotheses for spring protandry in Wood Thrushes using geolocators		W11.12 Goldstein, G. ; Possible effect of the species of bird, its behavioral ecology, and the sampling site on differences in the feather degrading gene of plumage bacteria from different species of songbirds.	End

Poster Session 1 – Day One

WEDNESDAY, 15 AUGUST - Late Afternoon Sessions, W13 - W17

Buchanan A104	Buchanan A201	Buchanan A202	Chemistry B150	Chemistry B250	Room
W13: Conservation	W14: Foraging	W15: Evolution	W16: Models and methods	W17: Habitat relationships	Session
W13.7 Bradley, D.; Dialect-based assortative mating following translocation of the endangered North Island Kokako (<i>Callaeas wilsoni</i>)	W14.7 Sherry, T.; High dietary overlap and opportunism consuming arthropods including coffee berry borer by five wood warbler species wintering in Jamaican shade coffee farms	W15.7 Miller, M.; Implications for the speciation process from a survey of secondary contact among Panamanian landbirds	W16.7 Wiest, W.*; The effects of survey effort, time, and frequency on occupancy, abundance, and detection probability estimates for salt marsh birds	W17.7 DeLeon, E.; Habitat associations and flock characteristics of Rusty Blackbirds (<i>Euphagus carolinus</i>) wintering in Louisiana	3:30
W13.8 Bowman, R.; Translocation of Florida Scrub-Jays increases local populations and reduces metapopulation extinction risk.	W14.8 Espino, J.; Hummingbird pollen deposition and fruit production in two <i>Salvia</i> species (Sages) that differ in the staminal lever mechanism.	W15.8 Sari, E.*; Molecular and morphological variation in the Galápagos flycatcher (<i>Myiarchus magnirostris</i>)	W16.8 Igl, L.; Total-area counts versus point counts for surveying breeding birds in grasslands	W17.8 Frey, S.; Ups and downs: Long-term songbird population trends across an elevational gradient in the Hubbard Brook Experimental Forest, NH	3:45
W13.9 Farmer, C.; Translocation of Millerbirds from Nihoa to Laysan	W14.9 Burle, M-H.; Independent evolution of nectarivory: tuamoto sandpipers are nectar-feeders	W15.9 Tarwater, C.E.; Opposing viability and fecundity selection and the drivers of selection on onset of breeding in a 22-year study of a tropical parrot	W16.9 d'Entremont, M.; Development of analytical protocols for bird migration data collected by radar & tools and techniques	W17.9 Saab, V.; Avian community responses to a mountain pine beetle outbreak in Montana	4:00
W13.10 Newstead, D.; A unique population of Red Knots wintering in south Texas and using Central Flyway	W14.10 Sustaita, D.; Integrating morphology, performance, and feeding ecology in Loggerhead Shrikes	W15.10 Block, N.L.*; Parasites reveal despeciation of deeply divergent lineages in a passerine	W16.10 Dornak, L.; Use of ecological niche models to determine extent of potentially suitable habitat for Henslow's Sparrows across their breeding distribution	W17.10 Pruett, S.; Components of productivity: The contribution of top-down versus bottom-up factors under differing landscape contexts.	4:15
W13.11 Brisson, A.; A Global Study of Color, Ornamentation, Song and Mimicry in Birds: Charismatic Species are more Vulnerable to Exploitation and Endangerment	W14.11 Goldberg, J.; Spatial patterns during the fledgling period: Parental foraging and provisioning strategies relative to fledgling dispersion	W15.11 Stiles, G.; Tomial Serrations in hummingbirds: distribution, form and possible functions	W16.11 Styring, A.; Avian detectability and community structure in a Bornean rainforest canopy: comparing simultaneous ground- and canopy-based surveys	W17.11 Squires, K.; Demise of a paradigm? Why 'habitat thresholds' don't tell us how much habitat is enough	4:30
End	W14.12 Kirsch, E.; Tree species preferences of foraging birds during spring migration in Upper Mississippi River floodplain forests	End	W16.12 Ball, J.; Using video monitoring to assess the accuracy of field-based estimates of songbird nest fate and nest productivity.	W17.12 Turner, D.; Nest-site habitat and its effects on daily survival rate of American Robins (<i>Turdus migratorius</i>) in the sub-Arctic	4:45
Poster Session 1 – Day One					

THURSDAY, 16 AUGUST - Morning Sessions, T1 - T5

Room	Hennings 200	Hennings 201	Hennings 202	Buchanan A102	Buchanan A103
Session	T1: Biogeography	T2: Urban ecology	T3: Migration and stopover	T4: Diseases and parasites	T5: Behaviour
10:30	T1.1 Cuervo, A.M.* ; Evolutionary assembly of the Andean avifauna: A comparative phylogeographic study of diversification and elevational distribution	T2.1 Tomasevic, J.A.* ; Are humans facilitating native secondary cavity nesting birds in suburban areas? Insights from the greater Seattle area.	T3.1 Taylor, C. ; Using network models to describe the population dynamics of migratory birds.	T4.1 Keller, J. ; <i>Campylobacter jejuni</i> , <i>coli</i> , and <i>lari</i> prevalence in agriculturally associated and migratory wild birds	T5.1 MacDonald, E. ; Songbird Incubation Dilemmas in the Alpine: Managing Parent-Offspring Tradeoffs in a Variable Thermal Environment
10:45	T1.2 Seeholzer, G. ; Extreme geographic variation in body size as a mechanism of local adaptation: bergmann's rule in the high andes	T2.2 Rodewald, A. ; Demographic consequences of altered bird-plant networks in urbanizing landscapes.	T3.2 Mitchell, G.* ; Timing of breeding carries over to influence migratory departure in a songbird: an automated radiotracking study	T4.2 Lombardo, M.P. ; Chewing Lice and Tree Swallow Biology	T5.2 Ryder, T. ; The ecological-evolutionary interplay: density-dependent sexual selection in a migratory songbird
11:00	T1.3 Cibois, A. ; Landbird colonization of the Pacific Ocean: molecular phylogenetics and biogeography of the fruit-doves (<i>Ptilinopus</i>)	T2.3 Kearns, L. ; Do patterns of nest predator activity predict nest locations and survival in urbanizing landscapes?	T3.3 La Puma, D. ; Weather Radar Identifies Importance of Bottomland Forests and Coastal Mosaic for Migrating Landbirds in Southeastern U.S.	T4.3 O'Brien, E. ; Host sex predicts susceptibility to parasitism and influences parasite population size within avian broods	T5.3 Collar, S. ; There goes the neighborhood: site fidelity and group adherence at a Caspian Tern (<i>Hydroprogne caspia</i>) colony facing habitat reduction and increased predation
11:15	T1.4 Oswald, J. ; The effect of Andean uplift and Pleistocene climate change on distributions of passerines in tropical dry forests	T2.4 Chiavacci, S. ; Factors affecting the nest success of shrubland birds in rural and urban landscapes of Illinois	T3.4 Delmore, K.* ; Tracking Swainson's thrushes along divergent migratory pathways using light-level geolocators	T4.4 Silverio, C. ; The Effects of Avian Malaria on Fitness, Extra Pair Paternity and Migration: a Medication Experiment	T5.4 Barton, D.* ; Timing and proximate causes of mortality in wild bird populations: testing Ashmole's Hypothesis
11:30	T1.5 Kirschel, A. ; The extent of trait similarity at contact zones influences range overlap and the trajectory of multidimensional character displacement in African tinkerbirds (<i>Pogoniulus</i> spp.)	T2.5 Sumasgutner, P.* ; Nest-site selection and habitat use of urban Kestrels: Are buildings ecological traps?	T3.5 Duerr, A. ; Weather drives migratory flight behavior of Golden Eagles: implications for understanding wind-wildlife interactions and climate change effects on migratory behavior	T4.5 Knutie, S. ; The impact of introduced <i>Philornis</i> nest flies on Galapagos mockingbirds	T5.5 Yao, M-C. ; Use of mammalian dung and its potential functions in nesting Fairy Pitta (<i>Pitta nympha</i>)
11:45	T1.6 James, H. ; The Geography and Chronology of Decline in Breeding Seabirds in the Main Hawaiian Islands	T2.6 Williams, C. ; Reproductive Success of the Western Burrowing Owl (<i>Athene cunicularia hypugaea</i>) in Agricultural and Urban Habitats of Dona Ana County, New Mexico	T3.6 Valdez-Juarez, S. ; Winter habitat effects on the individual condition and territoriality of Yellow warblers (<i>Setophaga petechia</i>) in natural and agricultural habitats in Jalisco, Mexico	T4.6 Urban, E.* ; The Role of Oropharyngeal pH in the Persistence of <i>Trichomonas gallinae</i> in Cooper's Hawks (<i>Accipiter cooperii</i>)	T5.6 Wiebe, K. ; Young titmice acquire prey preferences and foraging behaviours through social learning
Lunch					

THURSDAY, 16 AUGUST - Morning Sessions, T6 - T10

Buchanan A104	Buchanan A201	Buchanan A202	Chemistry B150	Chemistry B250	Room
T6: Songs and vocalizations	T7: Physiology and hormones	T8: Conservation	T9: Ecology	T10: Mating systems	Session
T6.1 Kenyon, H. ; Can Song Discriminate between MacGillivray's and Mourning Warblers in a Narrow Hybrid Zone?	T7.1 DeVries, S. ; Elevated testosterone might not be necessary to support female aggression in incubating Northern Cardinals (<i>Cardinalis cardinalis</i>)	T8.1 Tarr, N. ; The Gap Analysis Program: National databases for enhancing bird conservation	T9.1 Rourke, J. ; Factors influencing Sandhill Crane Site Selection and Habitat Use during Fall-Staging Prior to Southward Migration, Lower Mainland, BC	T10.1 Kramer, P. ; Benefits of extra-pair mate choice: are extra-pair young more fit than within-pair young?	10:30
T6.2 Grava, A. ; Character displacement in dawn chorusing behaviour of sympatric black-capped and mountain chickadees.	T7.2 Forsman, A. ; Experimentally increased bacterial load in tree swallow nests influences egg defenses and immune-based maternal effects, but not as expected	T8.2 Cabrera, L. ; Putting acoustic monitoring science into practice: development, challenges and opportunities for Point Pelee National Park Monitoring Program	T9.2 McCann, S. ; Do Red-throated Caracaras have a chemical wasp repellent?	T10.2 Gill, S. ; Evolution and life-history correlates of long-term monogamy in North American passerines	10:45
T6.3 Bolus, R. ; Common yellowthroat (<i>Geothlypis trichas</i>) song predicts habitat characteristics, arthropod abundance, and male quality	T7.3 Fokidis, H.B. ; Food restriction induces social instability and rapid changes in circulating steroids in male Zebra Finches (<i>Taeniopygia guttata</i>)	T8.3 Davidson, P. ; Using citizen science data to test hypotheses on shorebird population change	T9.3 Frye, G.* ; Effects of sagebrush chemical composition on diet selection and habitat use by an avian herbivore, the Greater Sage-Grouse	T10.3 Reitsma, L. ; Extra-pair paternity in a Canada Warbler population in central New Hampshire	11:00
T6.4 Poesel, A. ; Delayed song maturation and territorial aggression in a songbird	T7.4 Thomas, N. ; Metabolic rates of Least and Pectoral sandpipers at a stopover site during spring migration.	T8.4 Seavy, N. ; Incorporating birds into a market for ecosystem services: A case study from Central California	T9.4 Tringali, A. ; Shared Genes, Shared Environments: Using an animal model to estimate the influences of genetics and environment on plumage color in Florida Scrub-Jays	T10.4 Kus, B. ; Female-biased sex ratio and facultative polygyny in a declining population of the endangered Southwestern Willow Flycatcher	11:15
T6.5 Baldo, S.* ; More than meets the ear: the relationship between snow bunting song, oxidative stress, and reproductive performance	T7.5 Prior, N. ; Neuroendocrinology of pair-maintenance behavior in a social songbird, the zebra finch	T8.5 Loring, P. ; Phenology and habitat use of Black Scoters wintering in Southern New England - New York Bight in relation to proposed offshore wind facilities	T9.5 Walker, L. ; Recreation Changes the Use of a Wild Landscape by Corvids: Local Effects and Ecosystem Repercussions	T10.5 Liu, I. ; The role of mating system in sperm competition and protein evolution in <i>Agelaius</i> blackbirds	11:30
T6.6 Wright, S.* ; Song learning preferences differ between two closely related chickadee species	T7.6 Zanette, L. ; Food use by songbirds is affected by the experience of nest predation: implications for indirect predator effects on clutch size	End	T9.6 Pavlacky, D. ; Landscape change promotes asymmetric dispersal and limits regional patch occupancy in a spatially structured rainforest bird population	End	11:45
Lunch					

THURSDAY, 16 AUGUST - Early Afternoon Sessions, S4 - T12

Room	Hennings 200	Hennings 201	Hennings 202	Buchanan A201	Buchanan A202
Session	Symposium 4	Symposium 5	Symposium 6	T11: Ecology	T12: Breeding biology
1:30	S4.1 Francis, C. ; Opportunities and challenges for integrating acoustic technologies into continental bird monitoring programs	S5.1 Carling, M. ; Introgression on a genomic scale: Harnessing the power of next-generation sequencing to investigate hybridization between <i>Passerina amoena</i> and <i>Passerina cyanea</i>	S6.1 Kellerman, J. ; Phenological synchrony, habitat breadth, and responses to climatic variation of bird migration in the Madrean Archipelago and the American southwest	T11.1 Morrison, K.W. ; Does a migration carryover effect underlie individual variation in extreme egg-size dimorphism in Eastern Rockhopper Penguins?	T12.1 Newbrey, J. ; A Comparison of Breeding Bird Habitat Quality between Natural and Restored Wetlands Using a Novel Yolk Carotenoid Approach
1:45	S4.2 Rempel, R. ; Acoustic techniques to improve the power of songbird monitoring data: treating policy as hypothesis		S6.2 van Riper III, C. ; The Influence of plant phenological patterns on migrating neotropical migrant warblers in western North America	T11.2 Bortolotti, L. ; *U; Hydrogen isotope variability in food webs of Prairie landscapes: implications for studies of migratory connectivity	T12.2 Holberton, R. ; Body Condition in Adult Auks in Response to Annual Variation in Environmental Conditions at Machias Seal Island in the Gulf of Maine
2:00	S4.3 Drake, K. ; Using digital recordings to estimate occupancy patterns of secretive marsh birds	S5.2 Ruegg, K. ; Population genomics of the Swainson's thrush, <i>Catharus ustulatus</i>	S6.3 Fontaine, TJ ; The interplay of climate and land-use change: Implications for a long distance migrant	T11.3 Freeman, B. ; Interspecific competition explains bimodal distribution of a New Guinean songbird along an elevational gradient	T12.3 Berkunsky, I. ; Breeding Ecology of the Blue Fronted Parrot (<i>Amazona aestiva</i>) in the Argentinean Chaco
2:15	S4.4 Powers, M. ; Using acoustic monitoring for targeted species monitoring—a case study with Whip-poor-wills		S6.4 Inouye, D. ; Asynchronous changes in phenology of migrating Broad-tailed Hummingbirds and their early-season nectar resources	T11.4 Beerens, J. ; Modeling wading bird foraging trade-offs to guide restoration planning	T12.4 Kwon, E. ; Changes in breeding phenology and reproductive success of long-distance migratory shorebirds: comparative study over two decades
2:30	S4.5 Dawson, D. ; Estimating bird population densities using microphone arrays	S5.3 Chen, N. ; Evolutionary inference from genome-wide SNP assays of the long-studied Florida Scrub-Jay	S6.5 Carlise, J. ; Exploring climate impacts on migration timing and energetic condition of autumn migrant raptors and passerines in southwestern Idaho	T11.5 Smith, K. ; Nesting ecology of the black-capped vireo in southwest Texas	T12.5 Treen, G. ; Reproductive allocation trade-offs are related to nest characteristics in tree swallows (<i>tachycineta bicolor</i>)
2:45	S4.6 Borker, A. ; Acoustic activity as an index of relative abundance at seabird colonies: a low-cost and scalable tool for measuring conservation outcomes		S6.6 Kasper, T. ; Timing of migration within and between seasons	T11.6 Frei, B. ; Red-headed Woodpeckers Exhibit Non-Ideal Habitat Selection in a Human-Modified Landscape	T12.6 Kendrick, S. ; Eastern Wood-Pewee breeding demography across a savanna-woodland-forest gradient in the Missouri Ozarks
Coffee Break					

THURSDAY, 16 AUGUST - Early Afternoon Sessions, T13 - T17

Buchanan A102	Buchanan A103	Buchanan A104	Chemistry B150	Chemistry B250	Room
T13: Phylogeography	T14: Conservation	T15: Conservation	T16: Ecotox/Pollution	T17: Movements and dispersal	Session
T13.1 Sanchez, C. ; Origin and phylogeography of the endemic avifauna of the Pacific rainforest of Costa Rica and western Panama	T14.1 Sheehan, J. ; Breeding songbird response to conventional and unconventional oil and natural gas development in West Virginia	T15.1 Claassen, A. ; Breeding Success and Conservation of Sandbar-nesting Birds along the Mekong River in Cambodia	T16.1 Johnson, E. ; An independent assessment of oiling frequency in birds following the BP Deepwater Horizon oil disaster	T17.1 Gratto-Trevor, C. ; Connectivity of Piping Plovers, a species at risk, from a previously unknown major wintering area, The Bahamas	1:30
T13.2 Perktas, U. ; Phylogeny, phylogeography and species limits in the turacos (musophagidae)	T14.2 Mahoney, A. ; Indirect Effects of Wind Energy Development on Breeding Grassland Birds	T15.2 Bardo, L. ; Comparisons of adult morphology, nest success and nestling growth between captive-bred, first-generation captive and wild American kestrels (<i>Falco sparverius</i>)	T16.2 Miller, L. ; Are northern gannets (<i>Morus bassinus</i>) sentinels for Deepwater Horizon?	T17.2 Suzuki, Y. ; Demography and Inter-colony Movements of Caspian Terns in the Pacific Coast Region of North America	1:45
T13.3 Barrowclough, G. ; Phylogeography and species-limits in the Spruce Grouse complex.	T14.3 Lie Dahl, E. ; Population effects from a wind power plant on the White-tailed eagle (<i>Haliaeetus albicilla</i>)	T15.3 Aldinger, K. ; Conservation of Golden-winged Warblers on pasturelands in West Virginia	T16.3 Evers, D. ; Assessing mercury in songbirds: A new concern for bird conservation	T17.3 Noel, B. ; Does high annual survivorship result in habitat saturation, and ultimately delayed dispersal of Pileated Woodpeckers?	2:00
T13.4 Andersen, M.J. ; Phylogeography in the southwest Pacific: systematics, biogeography, and species limits in the Golden Whistler <i>Pachycephala pectoralis</i> complex	T14.4 Katzner, T. ; Topography drives migratory flight altitude of golden eagles: implications for wind energy development	T15.4 Raphael, M. ; Conservation of the marbled murrelet in the Pacific Northwest, USA	T16.4 Tozer, D. ; Common Loon reproductive success in Canada: the west is best but not for long	T17.4 Haché, S. ; Estimating natal dispersal of Ovenbirds (<i>Seiurus aurocapilla</i>) using d2H and d34S isoscapes	2:15
T13.5 Mauck III, W.M. ; Phylogeography of the Red-Shouldered Hawk (<i>Buteo lineatus</i>): A case of multiple refugia in the eastern United States	T14.5 Dwyer, J. ; A Logistic Regression Model to Predict Avian Electrocution Risk	T15.5 Hodum, P. ; Conservation threats to, and status of, the seabird community of the Juan Fernández Islands, Chile	T16.5 Jackson, A. ; Do high levels of mercury really matter to birds? Reduction in Carolina wren nest success and implications for conservation	T17.5 Scobie, C. ; Influence of Sound on Burrowing Owl Nocturnal Space-Use	2:30
T13.6 Peters, J. ; Population structure and gene flow in Holarctic ducks: Evidence from a genomic transect	T14.6 Harness, R. ; Avian Electrocutions in Western Rajasthan, India	T15.6 Conover, R. ; Demographic responses of the Dickcissel to early-succession management practices in Mississippi	T16.6 Frederick, P. ; Does mercury exposure affect avian survival?	T17.6 Green, M.C. ; Movement and gene flow throughout the breeding range of North Americas rarest heron, the Reddish Egret (<i>Egretta rufescens</i>)	2:45
Coffee Break					

THURSDAY, 16 AUGUST - Late Afternoon Sessions, S4 - T12

Room	Hennings 200	Hennings 201	Hennings 202	Buchanan A201	Buchanan A202
Session	Symposium 4	Symposium 5	Symposium 6	T11: Ecology	T12: Breeding biology
3:30	S4.7 Celis-Murillo, A. ; An experimental evaluation of the performance of acoustic recording systems for estimating avian species richness and abundance	S5.4 McCormack, J. ; Next-generation phylogenomics of 416 loci provides further resolution to the avian tree of life	S6.7 Rockwell, S.* ; Winter drought precedes later spring arrival dates, reduced reproductive success, and lower survivorship in the endangered Kirtland's warbler	T11.7 Diamond, A. ; Seabird diets reflect bottom-up changes to quantity and quality of a keystone prey species in the Bay of Fundy	T12.7 Fisher, R. ; Extreme weather events influence reproductive output of Burrowing Owls in Canada
3:45	S4.8 Desrochers, A. ; Networking Automated Recording Units using wireless technology		S6.8 Ellwood, L. ; Migration phenology in Thoreau's Concord over 150 years	T11.8 Streby, H. ; Thinking outside the nest: the importance of full-season research for understanding productivity and habitat associations of migratory songbirds	T12.8 Graves, E. ; Female-specific plumage traits in Wood Ducks (<i>Aix sponsa</i>): Indicators of individual quality?
4:00	S4.9 McKown, M. ; A wireless acoustic sensor network for detecting rare and elusive seabird species: Monitoring Ashy Storm-petrels (<i>Oceanodroma homochroa</i>) on Southeast Farallon Island	S5.5 Balakrishnan, C. ; Songbird transcriptomics: linking the genome and social behavior	S6.9 Lany, N. ; Spring leaf phenology, insect availability, and the timing of breeding by a migratory songbird in a North American temperate forest	T11.9 Olalla, A. ; Winter ecology of the long-billed curlew (<i>Numenius americanus</i>) in the southeast portion of the chihuahuan desert, México: first step towards its conservation.	T12.9 Sheppard, J. ; Timing of breeding and reproductive effort in wild mallards (<i>Anas platyrhynchos</i>) is related to both female and male quality
4:15	S4.10 Wimmer, J. ; Analysing Acoustic Sensor Data – Methods to Tame the Data Deluge		S6.10 Zuckerberg, B. ; The early bird gets earlier: analyzing shifts in the migration phenology of spring migrants using citizen science	T11.10 Lanctot, R. ; What happens when you remove an apex predator from an Arctic ecosystem? Findings from a 9-year study at Barrow, Alaska.	T12.10 Hatt, J. ; Influence of insect availability on fledgling survival of Black-throated Blue Warblers
4:30	S4.11 Damoulas, T. ; Machine Learning Techniques for Automated Flight Call Detection	S5.6 Cheviron, Z. ; Genomic insights into high-altitude adaptation in Rufous-collared Sparrows (<i>Zonotrichia capensis</i>) revealed by deep RNA-sequencing	S6.11 Wood, E. ; Variations in climate affect ecosystem services provided by birds during spring migration	T11.11 Kelley, P. ; Predator-driven divergence in the reproductive behaviors of a Neotropical rainforest bird	T12.11 Terhune, T. ; Golden-winged Warbler Rangewide Fecundity and Nesting Habitat Management Strategies
4:45	S4.12 Betts, M. ; Acoustic classification of multiple simultaneous bird species: a multi-instance multi-label approach		S6.12 Wood, E. ; Frontiers in avian phenological monitoring and research: trends, advances, and next steps	End	T12.12 Burger, J. ; Using geolocator data to reveal incubation periods and breeding biology in red knots (<i>calidris canutus rufa</i>)

Poster Session 1 – Day Two

Buchanan A102	Buchanan A103	Buchanan A104	Chemistry B150	Chemistry B250	Room
T13: Phylogeography	T14: Conservation	T15: Conservation	T16: Ecotox/Pollution	T17: Movements and dispersal	Session
T13.7 Williford, D.; Species relationships and phylogeography of the bobwhites	T14.7 Craig, E.; Use of predictive models to describe golden eagle winter distribution in the western United States relative to wind-power development projects	T15.7 Garcia-Perez, B.; Differential patterns of decline in Barn Swallow (<i>Hirundo rustica</i>) breeding in North America: potential effects of stressors on breeding and wintering grounds	T16.7 Eng, M.; Effects of early exposure to a brominated flame retardant on behaviour and development in birds	T17.7 Cornett, C.; Movement Ecology of Endangered Hawaiian Goose	3:30
T13.8 Hosner, P.; Testing the pleistocene aggregate island complex (paic) diversification model in co-distributed avian lineages	T14.8 Johnston, N.; Wind-energy development along a Golden Eagle (<i>Aquila chrysaetos</i>) migration route in the eastern Rocky Mountains of Canada: higher flight altitudes post-construction places eagles at lower risk of turbine collision.	T15.8 Burke, D.; Does logging create ecological traps for Yellow-bellied Sapsuckers?	T16.8 Carlson, J.; Effects of mercury on flight performance and molt in European Starlings (<i>Sturnus vulgaris</i>)	T17.8 Stumpf, K.; Movement patterns and genetic analyses reveal different patterns of population structuring of southwestern willow flycatchers	3:45
T13.9 Dhami, K.; The influence of interspecific hybridization on the heterogeneity of genetic diversity in Gadwalls and Falcated Ducks	T14.9 Coulton, D.; Raptor Occupancy and Productivity Near a Barren-ground Diamond Mine, Northwest Territories	T15.9 Elphick, C.; Does tidal marsh restoration benefit globally vulnerable birds?	T16.9 Cruz, L.; Emissions from the Athabasca Oil Sands and their Effects on Wild Birds	T17.9 Wheeler, H.; Movement patterns of breeding Chimney Swifts in relation to landscape features and social attraction	4:00
T13.10 Lait, L.; From coast to coast: the population genetic structure of the boreal chickadee	T14.10 Leston, L.; Does shallow gas well development adversely affect daily nest survival of Chestnut-collared longspurs (<i>Calcarius ornatus</i>) and other prairie songbirds?	T15.10 Roby, D.; Double-crested Cormorants in the Pacific Northwest: Status, Conservation, and the Pressure to Control	T16.10 Buck, K.*; Evaluating the Potential for Adaptive Response to Mercury in Captive-dosed Zebra Finches	T17.10 Wu, J.; Native and non-native frugivore movement patterns and implications for seed dispersal in Hawaii	4:15
T13.11 Dohms, K.; Two continents, two species, similar population genetic structure: A peek into nutcracker (<i>Nucifraga spp.</i>) phylogeography	T14.11 Gaudet, C.; Grassland songbirds are influenced by natural gas development in southwestern Saskatchewan	T15.11 Borneman, T.; Effects of human activity on American Oystercatchers breeding at Cape Lookout National Seashore, North Carolina	T16.11 Nocera, J.; Historical insecticide applications dramatically altered the diet of aerially-foraging insectivorous chimney swifts	T17.11 Rushing, C.; Quantifying the reproductive consequences of long-distance natal dispersal in a migratory bird, the American redstart	4:30
T13.12 Moyle, R.; Denser sampling of Pacific monarchs reveals unexpected relationships but clearer biogeographic patterns.	T14.12 Furley, B.; Nesting and Foraging Ecology of Black Skimmers (<i>Rynchops niger</i>) in Coastal Louisiana following the BP Oil Spill	End	T16.12 States, S.; Variation in pathogen distribution across hosts drives infection rates in House Finches (<i>Carpodacus mexicanus</i>) by the bacterium <i>Mycoplasma gallisepticum</i>	T17.12 Miller, T.; Seasonal and intraspecific drivers of movement ecology of a migratory avian predator	4:45
Poster Session 1 – Day Two					

FRIDAY, 17 AUGUST - Morning Sessions, F1 - F5

Room	Hennings 202	Hennings 200	Hennings 201	Chemistry B150	Buchanan A202
Session	F1: Models and methods	F2: Population biology	F3: Conservation	F4: Tropical ecology	F5: Community ecology
10:30	F1.1 Bird, D. ; Applications of Unmanned Vehicle Systems to Bird Studies	F2.1 McKim-Louder, M.* ; First-year survival in a Neotropical migratory passerine is lower than expected	F3.1 Stewart, L.R. ; The Impact of a Forest Pathogen on the Endangered Golden-cheeked Warbler	F4.1 Kresnik, R. ; Arrival ecology and behavior of wintering ovenbirds (<i>Seiurus Aurocapilla</i>): Understanding territory acquisition and space use strategies	F5.1 Stoleson, S. ; Ghosts of herbivory past: Legacy effects of white-tailed deer on forest birds communities
10:45	F1.2 Junda, J. ; Use of a Rotary-winged Remotely Piloted Aerial System (RPAS) to Determine Nest Contents of Raptorial Birds	F2.2 Hurley, V. ; Lifetime reproductive success in Peregrine Falcons across an urban gradient in Australia	F3.2 Botero-Delgadillo, E. ; The importance of defining distribution patterns to determine the conservation status of Andean populations of Pyrrhura parakeets in north-western South America	F4.2 Dauphine, N.S. ; Avifauna declines in West African logging concessions	F5.2 Ungvari-Martin, J. ; Mosaic of communities: birds in forests of Western Amazonia
11:00	F1.3 Stenhouse, I. ; Super high-definition video aerial surveillance and analysis: Capabilities and results for offshore mid-Atlantic waters	F2.3 Harriman, V. ; Seasonal patterns of offspring quality and survival rates are related to parental and environmental quality in tree swallows (<i>Tachycineta bicolor</i>): results of short-term experiments and mark-recapture analyses of long-term data.	F3.3 Hall, L. ; Trash and contaminants in the Motagua River of Guatemala: implications for bird species of the region	F4.3 McDermott, M. ; Ecology of mixed-species flocks in shaded monocultures and silvopastures in the colombian andes	F5.3 Wyman, K. ; Now you see them, now you don't: site occupancy dynamics of Great Lakes colonial waterbirds
11:15	F1.4 Berres, M.E. ; WeBIRD: Connecting people to birds through mobile technology	F2.4 Giroux, J-F. ; What is limiting temperate breeding Canada geese?	F3.4 Sánchez-González, L.A. ; State of the birds of Mexico, a preliminary assessment	F4.4 Hamel, P. ; Mixed Species Migratory Warbler Flocks on Cuba with and without the Nuclear Species Yellow-headed Warbler (<i>Teretistris fernandinae</i>)	F5.4 Robles, H. ; Qualities of a keystone cavity facilitator for secondary cavity-nesting songbirds: excavator abundance, cavity quality and habitat selection
11:30	F1.5 Williams, K. ; Comparison of banding, acoustic, and NEXRAD radar data for studying passerine migration in upstate New York: A complementary approach	F2.5 Schmutz, J. ; Disease as a Demographic Constraint on a Bering Sea Endemic: the Emperor Goose	F3.5 Chin, A. ; Assessing the Performance of Bird Communities as Indicators of Coastal Wetland Health: The Effect of Great Lakes Water Levels	F4.5 Ruiz-Gutierrez, V. ; Survival of resident neotropical birds: considerations for sampling and analysis based on 20 years of bird banding efforts in Mexico	F5.5 Banko, P. ; Response of a Subalpine Hawaiian Forest Bird Community to Prolonged Drought and Habitat Degradation by Feral Ungulates
11:45	End	F2.6 Lukacs, P. ; Unsustainably low breeding season survival of Kittlitz's Murrelets in Icy Bay, Alaska	F3.6 Hammerly, S. ; An evaluation of inbreeding and possible fitness consequences associated with immunocompetence and survival of the critically endangered Attwater's Prairie-chicken	F4.6 Boyce, A. ; The fight for space: Does interspecific competition or physiological tolerance limit elevational distributions of tropical birds?	F5.6 Edworthy, A. ; The dynamic lives of tree cavities: community-level use patterns of tree cavities by cavity-nesting birds
Lunch					

Buchanan A102	Buchanan A103	Buchanan A104	Chemistry B250	Buchanan A201	Room
F6: Parental care	F7: Physiology, hormones	F8: Sexual selection	F9: Migration and stopover	COS – Young Investigator Award	Session
F6.1 Grunst, M. ; Context-dependent reproductive allocation rules with respect to male quality in the biparental songbird <i>Melospiza melodia</i>	F7.1 King, M. ; Activation of the immune systems incurs energetic costs but produces no thermogenic tradeoffs in House Sparrows (<i>Passer domesticus</i>) undergoing cold stress.	F8.1 Grunst, A. ; Sexual coloration, antioxidant status, and reproductive strategies in Yellow Warbler (<i>Setophaga petechia</i>): Linked via individual quality or alternative allocation decisions?	F9.1 Linkhart, B. ; Migration path and wintering area of flammulated owls breeding in Colorado	YIA1 Naka, L.; Timing of avian diversification and the role of Amazonian rivers in the speciation process	10:30
F6.2 Doumas, L. ; The intensity of carotenoid-based nestling mouth coloration is negatively associated with ectoparasite density in house sparrow broods	F7.2 Kouwenberg, A-L.* ; Corticosterone and stable isotopes in feathers identify carry-over effects in Atlantic puffins	F8.2 Gammie, K. ; Sexy dads and cryptic moms: iridescence, sexual dimorphism, and mating systems in the Galliformes	F9.2 Smith, S. ; Seasonal and site differences in refueling rates of songbirds during migration stopover near the south shore of Lake Ontario		10:45
F6.3 Gow, E. ; Trade-offs in parental care decisions of male and female northern flickers during the post-fledging period	F7.3 Smit, B. ; Body temperature regulation during the heat of the day in free-living White-browed Sparrow-Weavers in the Kalahari Desert	F8.3 Saranathan, V. ; Signal Content of Structural Colours: A Synchrotron Nanostructural Study of UV-Reflective Blue Tit Plumage	F9.3 Covino, K.* ; Not Just a Breeding Hormone? Testosterone Production in Songbirds throughout Spring Migration.	YIA2 Tingley, M.; Grinnell's legacy: Effects of a century of climate change on species occurrence and community composition in the Sierra Nevada	11:00
F6.4 Peer, B. ; Adaptive Modulation of Cowbird Host Defensive Behavior in Relation to its Costs and Likelihood of Parasitism	F7.4 Milenkaya, O. ; Condition indices among Crimson Finches are repeatable but do not predict reproductive success or survival.	F8.4 Taff, C.* ; Breeding density and spatial distribution of nests constrain the strength of sexual selection in a warbler.	F9.4 Bayly, N. ; Preparing to cross the Caribbean Sea & the spring stopover of the Gray-cheeked Thrush <i>Catharus minimus</i> in northern Colombia		11:15
F6.5 Sorenson, M. ; Extraordinarily Divergent, Host-Specific mtDNA Lineages in Greater Honeyguide and Cuckoo Finch: Implications for the Genetics of Host-Specific Adaptation	F7.5 Schoech, S. ; Corticosterone and behavioral phenotype in Florida scrub-jays: links among stress, personality, and life span	F8.5 O'Brien, E. ; Temporal partitioning of environmental effects on the quality and plasticity of a melanin-based plumage signal in great tits	F9.5 Stanley, C.* ; Repeat tracking of individual Wood Thrush (<i>Hylocichla mustelina</i>) reveals consistent migration timing but flexibility in route	End	11:30
End	F7.6 Butler, M. ; Differential Effects of Early- and Late-Life Access to Carotenoids on Adult Immune Function and Ornamentation in Mallard Ducks (<i>Anas platyrhynchos</i>)	F8.6 Parker, T. ; What do we really know about the signaling role of plumage color in blue tits? A case study of impediments to progress in evolutionary biology	F9.6 Dale, C. ; Reproductive consequences of alternative migratory strategies in a partially migratory passerine		11:45
Lunch					

FRIDAY, 17 AUGUST - Early Afternoon Sessions, S7 - F11

Room	Hennings 200	Hennings 201	Hennings 202	Buchanan A201	Buchanan A202
Session	Symposium 7	Symposium 8	Symposium 9	F10: Behaviour	F11: Breeding biology
1:30	S7.1 Joy, J. ; Constructing and dating the evolutionary tree of all birds	S8.1 Navarro-Sigüenza, A.G. ; Ornithology in Mexico: where have we been and where should we go	S9.1 Buler, J. ; Factors that influence the distributions of migratory birds during stopover in a coastal setting	F10.1 Eichholz, M. ; Is current nest site selection of grassland nesting birds maladaptive?	F11.1 Hepp, G. ; Incubation temperature influences apparent survival and recruitment of female Wood Ducks
1:45		S8.2 Rojas-Soto, O.R. ; What's in a species? The importance of species limits in avian conservation		F10.2 Davros, N. ; Keeping up with the Joneses: Breeding male Prothonotary Warbler (<i>Protonotaria citrea</i>) responses to increased conspecific density	F11.2 Desnoyers, N. ; Changes in nesting substrate use by San Clemente Loggerhead Shrikes in a recovering landscape and implications for recovery
2:00	S7.2 Jetz, W. ; The diversity of all birds in space and time		S9.2 Lightfoot, H. ; Patterns of fall songbird migration around the Bay of Fundy and Gulf of Maine	F10.3 Lorenz, T. ; Long-distance seed transport and cache site selection by Clark's nutcracker: investigating the role of nutcrackers as ecosystem engineers	F11.3 Davis, J. ; Local and Landscape Factors Influencing Nest Survival and Productivity of Western Burrowing Owls (<i>Athene cunicularia hypugaea</i>) Across Great Plains Grasslands
2:15		S8.3 Enriquez-Rocha, P.L. ; Progresses and challenges in raptor and owl research in Mexico		F10.4 Miller, A. ; Migratory shorebird stop-over sites: habitat and prey associations in Oregon estuaries	F11.4 Ortiz-Maciel, S.G. ; Maroon-fronted Parrot (<i>Rhynchopsitta terrisi</i>) productivity at the two main nesting colonies in the Sierra Madre Oriental, Mexico: 1997-2011.
2:30	S7.3 Thomas, G. ; Testing complex models of trait evolution across all birds		S9.3 Depp, J. ; Tracking the movement and survival of intercontinental migrants across the Gulf of Mexico	F10.5 Reudink, M. ; Multiple stable-isotopes (dD , $d^{13}C$, $d^{15}N$) indicate long-distance dispersal facilitates gene flow and genetic panmixia in a continentally-distributed waterbird	F11.5 Cruz-Nieto, J. ; Nesting characterization and reproductive biology of Thick-billed Parrot (<i>Rhynchopsitta pachyrhyncha</i>) in five regions of Sierra Madre Occidental, Chihuahua, Mexico
2:45		S8.4 Renton, K. ; Challenges for conserving threatened endemic species: the case of parrots in Mexico		F10.6 Brussee, B. ; Nest survival of Black-crowned Night-Herons as related to incubation behavior and nest predators based on video-monitoring at Alcatraz Island, San Francisco, California	F11.6 Lawonn, J. ; Searching For a Shadow's Shadow: Kittlitz's Murrelets Nesting in Unglaciated Alpine Habitat on Kodiak Island, Alaska
Coffee Break					

Buchanan A102	Buchanan A103	Buchanan A104	Chemistry B150	Chemistry B250	Room
F12: Climate	F13: Conservation	F14: Conservation	F15: Life histories	F16: Habitat relationships	Session
F12.1 DeLuca, W.; Blackpoll warbler (<i>Setophaga striata</i>) breeding ecology along an elevation gradient: consequences of temporal and spatial variation in climate	F13.1 Koper, N.; Effects of management across Canada on Sprague's pipits and chestnut-collared longspurs, two threatened grassland songbirds	F14.1 Britt, C.; Isolated and under threat: Scarlet Macaws in Belize and Guatemala	F15.1 Dillon, K.G.; Changes in breeding phenology and elevational gradients in clutch size of red-faced warblers: effects of climate, nest predation, and food.	F16.1 Akresh, M.*; Demographic response of prairie warblers to habitat creation, succession, and disturbance in a 'shifting mosaic' landscape	1:30
F12.2 Schmidt, A.; Breaking up long-term relationships: How the North Pacific Gyre Oscillation may be overtaking El Niño as the dominant driver of seabird productivity in central California	F13.2 Bednarz, J.; Evaluation of experimental fungal inoculations to establish heart-rot and promote cavity nests and wildlife habitat in managed forests in Washington	F14.2 Paxton, E.; Koa restoration forests: quality habitat for native Hawaiian forest birds?	F15.2 Stocking, J.J.; Comparison of nest success and chick growth on traditional and non-traditional island sites for the American Oystercatcher in North Carolina	F16.2 Weldon, O.; Landscape scale analysis of vegetation structure preference by early successional and mature forest breeding birds using lidar	1:45
F12.3 Heath, J.; Changes in American Kestrel migration and wintering are associated with warmer winter temperatures in western North America	F13.3 VanderWerf, E.; Evolution of Nest Height in the Endangered Oahu Elepaio in Response to a Non-native Predator	F14.3 Heindl, B.; Nest Site Limitation in the Puaiohi or Small Kauai Thrush (<i>Myadestes palmeri</i>): Using Nest Boxes to Expand the Range of an Endangered Species	F15.3 Riordan, M.; Examining what life stage male bias arises in Mountain Plovers (<i>Charadrius montanus</i>)	F16.3 Correll, M.; Predicting Tidal Marsh Bird Populations via Remote Sensing: A potential tool for coastal conservation	2:00
F12.4 Hass, T.; Climate change, heightened hurricane activity, and extinction risk for an endangered tropical seabird, the Black-capped Petrel <i>Pterodroma hasitata</i>	F13.4 Galla, S.; Exploring the evolutionary distinctiveness of the critically endangered Attwater's Prairie-chicken using coalescent multi-locus analyses	F14.4 Stirnemann, R.; Nest site selection and productivity: Implications for the Mao, an endangered honeyeater	F15.4 Elliott, K.*; Fixed reproductive investment in a long-lived bird: evidence for an energy ceiling	F16.4 Farrell, S.; Developing high-resolution, fine-scale, occupancy models for endangered songbirds using LIDAR	2:15
F12.5 Wethington, S.; Delayed timing of molt and changes in migration stopover sites: Possible responses by Broad-tailed Hummingbirds (<i>Selasphorus platycercus</i>) to extreme cold temperatures on their wintering grounds	F13.5 Ellison, K.; Grassland Birds as Indicators of the Ecological Recovery of Bison.	F14.5 Cadman, M.; Nesting success of Bank Swallows in aggregate pits	F15.5 Martin, M.; Latitudinal variation in life history traits of Yellow Warblers	F16.5 Henderson, A.; Does a working prairie landscape work for wildlife?: Linking bird abundance and range health in Saskatchewan, Canada	2:30
F12.6 Wolf, B.; Heat waves - challenges for desert bird communities	F13.6 Panjabi, A.; Habitat use and capacity estimates for wintering grassland birds	F14.6 Burle, M-H.; Ocean swell drives unexpected population crash in the endangered Tuamotu Sandpiper suggesting earlier consequences of future sea-level rise	F15.6 Cooper, C.; Latitudinal, Seasonal, and Photoperiodic trends in clutch size: the importance of peripheral clocks in songbirds	F16.6 Nol, E.; Eastern Wood-peewee nest survival in pine plantations and deciduous forests	2:45
Coffee Break					

FRIDAY, 17 AUGUST - Late Afternoon Sessions, S7 - F11

Room	Hennings 200	Hennings 201	Hennings 202	Buchanan A201	Buchanan A202
Session	Symposium 7	Symposium 8	Symposium 9	F10: Behaviour	F11: Breeding biology
3:30	S7.4 Mooers, A. ; Measures of evolutionary isolation and conservation of birds	S8.5 Ruvalcaba-Ortega, I. ; Use of agricultural areas by wintering birds in northeastern Mexico	S9.4 Leppold, A. ; Characterizing Spatial and Temporal Patterns of Landbird Migrants in the Gulf of Maine Region.	F10.7 MacLean, S.*U. ; Real danger or crying wolf? Auditory and visual threat recognition in gulls	F11.7 Gurney, K. ; Seasonal patterns of offspring diets and survival in lesser scaup in relation to temporal fluctuations in aquatic food resources in northern boreal ecosystems
				F10.8 Boggie, M. ; Spatial Ecology and Mate Interactions of Cooper's Hawks in the Non-Breeding Season	F11.8 Hipfner, M. ; Sea-surface temperature affects breeding density of a rocky intertidal predator, the Black Oystercatcher
4:00	S7.5 Jankowski, J. ; A phylogenetic perspective on elevational gradients as drivers of species turnover and diversification in Andean birds	S8.6 MacGregor-Fors, I. ; Urbanization and exotic invaders in the tropics	S9.5 Cohen, E. ; Movement ecology of an intercontinental migratory bird in relation to endogenous and exogenous factors during spring stopover	F10.9 Kelly, J. ; Post-breeding Public Information in a Ground-nesting Songbird Community	F11.9 Klucsarits, J. ; Spatial-temporal distribution of nest box usage and productivity for American Kestrels nesting in Eastern Pennsylvania
				F10.10 Krebs, B. ; Spatio-temporal patterns in communal roosting behavior of American Robins (<i>Turdus migratorius</i>) in an urban setting	F11.10 Newell, P. ; Survivorship and Landscape Use of Breeding and Post-breeding Rusty Blackbirds in Northern New Hampshire
4:30	S7.6 Ricklefs, R. ; What fundamental things can a tree of all birds (not) tell us?	S8.7 Palacios, E. ; Challenges and perspectives in shorebird research and conservation in Mexico	S9.6 Woodworth, B. ; Migration strategies of individual songbirds at a major ecological barrier and their relationship to weather	End	End
4:45					

Poster Session 2 – Day One

Buchanan A102	Buchanan A103	Buchanan A104	Chemistry B150	Chemistry B250	Room
F12: Climate	F13: Conservation	F14: Conservation	F15: Life histories	F16: Habitat relationships	Session
F12.7 Cox, W.A.; High temperatures reduce avian productivity in high quality habitat	F13.7 Arizmendi, M.; Hummingbird Conservation: mutualistic interaction with plants needed!	F14.7 Benson, T.J.; Patch size is not a reliable predictor of grassland bird nest survival: a synthesis of past studies	F15.7 Boyle, A.; Life-histories of birds along elevational gradients: a meta-analysis	F16.7 Stanton, R.*; Range extension and habitat restoration: does 'Hilden's Principle' apply to resident birds?	3:30
F12.8 Hanley, D.; How have long-term changes in climate and ocean practices influenced Atlantic Puffin diet and bill coloration?	F13.8 Beckmann, C.; Impacts of the invasive cane toad on a ground-nesting bird in tropical Australia	F14.8 Zarones, L.; Population status and nesting success of the critically endangered Aga or Mariana Crow (<i>Corvus kubaryi</i>) on Rota, Mariana Islands, Micronesia	F15.8 Becker, P.H.; Lifelong individual development as an important life history component in the Common Tern <i>Sterna hirundo</i>	F16.8 Percy, K.; Effects of Prescribed Burning on Golden-winged Warbler (<i>Vermivora chrysoptera</i>) Habitat and Populations in the Cumberland Mountains, Tennessee	3:45
F12.9 Auer, S.; Indirect effects of climate change on nest site use and overlap among coexisting wood warblers	F13.9 Earnst, S.; Increases in Avian Abundance and Changes in Aspen Woodland Vegetation During 12 Years After Livestock Removal in the Great Basin	F14.9 Canales, R.; Population status, demographic history, and viability of the Mexican endangered Sparrow: <i>Spizella wortheni</i> .	F15.9 Ghalambor, C.; Resolving the contrasting influences of life histories and breeding density on avian reproductive strategies	F16.9 Fierro, K.; Environmental factors affecting the distribution of territories in four ground-nesting birds over time	4:00
F12.10 Senner, N.; Luck of the draw: two hudsonian godwit populations differentially respond to climate change	F13.10 Levandoski, G.; Influences of habitat characteristics on winter survival of Vesper Sparrow (<i>Pooecetes gramineus</i>) in the Chihuahuan Desert of Mexico	F14.10 Neal, M.; Project Black Hawk: Year 1 results of an unconventional study focused on the breeding season habitat use by migratory Common Black Hawk (<i>Buteogallus anthracinus</i>) in southwest New Mexico	F15.10 Evenson, J.; Surf scoter (<i>melanitta perspicillata</i>) winter phenology and inter-annual site philopatry to wintering areas along the Pacific Coast	F16.10 Germain, R.; Habitat preference and nesting success under exotic plant invasion in island song sparrows	4:15
F12.11 Courter, J.; Predicting avian nesting dates using growing degree-days	F13.11 Kern, R.*; The effects of prescribed fire and habitat loss on Seaside Sparrow population viability in Maryland, USA	F14.11 Ehlers, S.; Quantifying survival and identifying predators of the threatened island-endemic San Clemente Sage Sparrow	F15.11 Beissinger, S.R.; Variation in the risk of infection in avian eggs between temperate and tropical environments	F16.11 Hunt, P.; Habitat use by the Eastern Whip-poor-will (<i>Caprimulgus vociferus</i>) in managed forest landscapes	4:30
End	End	F14.12 McFarland, T.; Range-wide variation in black-capped vireo breeding ecology: Implications for conservation and management	F15.12 Terrill, R.; A phylogenetic context for molt strategies in birds	End	4:45

SATURDAY, 18 AUGUST - Morning Sessions, SAT1 - SAT5

Room	Hennings 200	Hennings 201	Hennings 202	Buchanan A103	Buchanan A202
Session	SAT1: Evolution	SAT2: Population biology	SAT3: Movements and dispersals	SAT4: Urban ecology	SAT5: Behaviour
10:30	SAT1.1 Langin, K.* ; Divergence with gene flow: local adaptation in bill morphology within a single-island endemic, the Island Scrub-Jay	SAT2.1 Grinde, A. ; Metapopulation Dynamics and Characteristics of Wood-Warblers in the Western Great Lakes Region.	SAT3.1 Weseloh, D.V.C. ; Site-fidelity, roosting and migration of colour-marked Great Egrets from southern Ontario	SAT4.1 Shipley, A. ; Residential edges as ecological traps: postfledging survival of Spotted Towhees in a forested urban park	SAT5.1 Kobiela, M. ; Does mercury contamination affect risk-taking behaviors? Tradeoffs between eating and being eaten
10:45	SAT1.2 DuBay, S.* ; Diversification by local adaptation to altitude in Andean Tit-tyrants	SAT2.2 McClain, D. ; Nest site selection of a cavity nesting species as a function of habitat quality	SAT3.2 Masse, R.J. ; Testing the foraging-benefit and predation-risk hypotheses to explain summer commutes by american woodcock	SAT4.2 Rondon-Rivera, J. ; Urban green spaces: traps or havens for migratory birds?	SAT5.2 Barton, G. ; Ecological correlates of long-term changes in the seasonal phenology of migratory songbirds
11:00	SAT1.3 Brown, C.* ; Evolutionary patterns and likely causal factors in hummingbird migration	SAT2.3 Hill, J. ; Population ecology of grassland sparrows in woody grasslands: an experimental test of structure on reclaimed surface mine grasslands	SAT3.3 Boyd, S. ; Using satellite telemetry to describe the population structure of sea ducks	SAT4.3 Rega, C. ; Soil, snails, and breeding birds in urban forest fragments	SAT5.3 Behney, A. ; Ecological factors influencing foraging behavior of birds during spring migration in the wabash river floodplain
11:15	SAT1.4 Lank, D. ; Genes producing 'female mimic' males also shrink female ruffs (<i>Philomachus pugnax</i>), and may alter sex ratios	SAT2.4 Monroy Ojeda, A. ; Population Trends of Six Species of Neotropical Migratory Birds. A nine years study in Oaxaca, Oaxaca, Mexico.	SAT3.4 Trefry, S.* ; Wing marker woes: a case study and meta-analysis of the impacts of wing and patagial tags	SAT4.4 Thieme, J. ; Linking grassland bird density to predator activity in urban parks	SAT5.4 Lanzone, M. ; Flight Responses by a Migratory Soaring Raptor to Changing Meteorological Conditions
11:30	SAT1.5 Cooke, R. ; Molecular data contradicts the accepted origin of the Lord Howe Island Masked Owl, implications for management	SAT2.5 Vernouillet, A. ; Selection harvesting negatively affects Ovenbird survival: a 6-year study	SAT3.5 Laughlin, A. ; Radar and Radios reveal roost sites and between-roost movements of wintering Tree Swallows (<i>Tachycineta bicolor</i>)	SAT4.5 VanBeek, K. ; Effects of alternative tillage practices on bird populations in Illinois	SAT5.5 Williams-Sieg, K. ; Habitat Disturbance and the Role of Behavioral Plasticity in Mediating Life History Trade-offs
11:45	SAT1.6 Greenberg, R. ; The influence of the californian marine layer on bill size in a generalist songbird	SAT2.6 LaManna, J.* ; Spring migration precipitation influences annual survival of migratory songbirds	SAT3.6 Ulman, S. ; Stable isotopes infer origins of shorebirds utilizing an alaskan estuary during migration	End	SAT5.6 Katsnelson, E. ; Individual-learning ability predicts social-foraging strategy in house sparrows (<i>Passer domesticus</i>)
Lunch					

SATURDAY, 18 AUGUST - Morning Sessions, SAT6 - SAT10

Buchanan A203	Chemistry D200	Chemistry D300	Chemistry B150	Chemistry B250	Room
SAT6: Breeding biology	SAT7: Climate	SAT8: Migration and stopover	SAT9: Ecology	SAT10: Ecotox/pollution	Session
SAT6.1 Corkery, C.; Testing the mismatch hypothesis in Churchill, Manitoba: does food for a sub-Arctic breeding plover peak at hatch?	SAT7.1 Kaiser, S.A.; Sex-specific parental responses to weather-induced variability in food resources across a climate gradient	SAT8.1 Wunderle, J.; Sex and age differences in site fidelity, food resource tracking, and response of body condition to rainfall in wintering Kirtland's Warblers (<i>Setophaga kirtlandii</i>) in The Bahamas may have drought year consequences that carry over to the breeding grounds.	SAT9.1 Hostetler, J.; A quantitative approach for assessing avian climate change vulnerability	SAT10.1 St. Clair, T.; Investigating Sources and Risk of Metal Exposure to Dunlins (<i>Calidris alpina</i>) in the Fraser River Delta, British Columbia	10:30
SAT6.2 Stahl, J.; The benefits of earlier nesting in the San Clemente Loggerhead Shrike	SAT7.2 Ralph, C.J.; Tropical birds are a sensitive indicator of climate change: Thirteen Years of Bird Banding and the Influence of the El Niño Southern Oscillation on the Demography and Condition of several Migrant and Resident Birds in Northeastern Costa Rica	SAT8.2 Stutzman, R.*; Stopover behavior of migratory shorebirds: Are agricultural fields an avian Qwik-E-Mart?	SAT9.2 Li, X.; Climate change vulnerability of 63 Galliformes species in China	SAT10.2 Avery-Gomm, S.; Northern fulmars as biological monitors of trends in plastic pollution: Evidence of increasing plastic ingestion by northern fulmar in the Northeast Pacific.	10:45
SAT6.3 Salafsky, S.; The influence of food limitation on goshawk reproduction in northern Arizona	SAT7.3 Byrd, A.; Understanding common loon (<i>Gavia immer</i>) biogeography and viability in an era of climate change	SAT8.3 Smith, R.; The influence of intrinsic and extrinsic factors on arrival timing and seasonal reproductive performance in Field Sparrows (<i>Spizella pusilla</i>).	SAT9.3 Stouffer, P.; They breed all the time; does it matter? Aseasonal breeding by understory birds in central Amazonian Brazil	SAT10.3 Morrissey, C.; Pacific Salmon as a source of persistent organic pollutants to American dippers	11:00
SAT6.4 Cooper, R.; Estimating food abundance for insectivorous birds.	SAT7.4 Townsend, A.; Warm spring linked to higher fecundity, lower survival, and stable populations of Black-throated Blue Warblers	SAT8.4 MacPherson, M.; The physiological ecology of long-distance bird migration: A comparative approach contrasting austral and Nearctic-Neotropical migration	SAT9.4 Brawn, J.; Population growth rates in tropical understory birds and their prospects under climate change	SAT10.4 Brasso, R.; Penguin feathers as a predictive tool for assessing mercury exposure in marine food webs throughout the Southern Hemisphere	11:15
SAT6.5 Roche, E.; Survival of Piping Plover and Least Tern chicks in mixed-species nesting aggregations on the Missouri River	SAT7.5 McKinnon, L.; Optimizing shorebird breeding phenology in a changing arctic environment	End	SAT9.5 Heiss, R.; An exploration of age, oxidative damage and survival in the Florida Scrub-jay (<i>Aphelocoma coerulescens</i>)	SAT10.5 Camilleri, S.*; Provisioning of chicks by Leach's Storm-Petrels: Insights into energy content, lipid content, and contaminants of stomach oils.	11:30
SAT6.6 Joos, C.; Fitness Consequences of Territory Selection and Habitat Quality in Bell's Vireos	End		SAT9.6 Ton, R.; A comparative field test of the metabolic rate hypothesis for nestling growth rates among temperate and tropical Passerines	SAT10.6 Elliott, J.; Rodenticides: ongoing problems with contamination and poisoning of raptors	11:45
Lunch					

SATURDAY, 18 AUGUST - Early Afternoon Sessions, S10 - SAT12

Room	Hennings 200	Hennings 201	Hennings 202	Chemistry D200	Buchanan A103
Session	Symposium 10	Symposium 11	Symposium 12	SAT11: Systematics, taxonomy	SAT12: Sexual selection
1:30	S10.1 Williams, T. ; Integrating avian physiology and ecology: introduction to the symposium	S11.1 Jankowski, M. ; Heterogeneous viral shedding in birds: potential causes and consequences of this consistent phenomenon	S12.1 Rosenberg, K. ; Filling knowledge gaps to enhance full life-cycle bird conservation: Partners in Flight's Tri-National vision	SAT11.1 Wright, N.* ; Ecological determinants of flight muscle size across birds	SAT12.1 Guindre-Parker, S. ; Alula Size in an Arctic-breeding Passerine: Condition-dependent Achromatic Signalling of a Rarely Studied Plumage Trait
1:45	S10.2 Madliger, C. ; Linking individual variation in physiology during reproduction with fitness			SAT11.2 Benham, P.* ; Topographic complexity in the Andes shapes diversification patterns in the hummingbird genus Metallura	SAT12.2 Webster, M.S. ; Spatial decoupling of cultural and genetic traits generates novel phenotypes across a zone of secondary contact
2:00	S10.3 Guglielmo, C. ; Physiological variation among individuals and its effects on migration performance	S11.2 Adelman, J. ; Heterogeneous responses to infection among house finches: mechanistic causes and transmission consequences	S12.2 Tonra, C. ; The nexus of non-breeding, migratory, and breeding life history stages in migratory songbirds	SAT11.3 Escalante, P. ; DNA barcoding efforts for the bird fauna of Mexico	SAT12.3 Berzins, L. ; Do male tree swallows (<i>Tachycineta bicolor</i>) adjust their investment in parental care in relation to experimentally altered female ornamentation?
2:15	S10.4 Swanson, D. ; Mechanisms and Fitness Correlates of Seasonally Flexible Metabolic Phenotypes in Small Birds	S11.3 Brown, J. ; Understanding avian influenza virus infection in gulls		SAT11.4 Sigurdsson, S. ; A new phylogeny of the Nightjars (Caprimulgidae) casts light on new phylogenetic species and a complex history of diversification in the New World.	SAT12.4 Safran, R. ; Geographic variation in sexual signaling: causal evidence that different traits underlie sexual selection in closely related populations of barn swallows
2:30	S10.5 Duckworth, R. ; Adaptive variation in behavior: evolutionary insights from developmental mechanisms	S11.4 Garvin, M. ; Volatile components of uropygial gland secretions and community-level interactions in disease transmission	S12.3 Sillett, S. ; Recent advances in understanding the limitation and regulation of migratory passerine populations throughout the annual cycle	SAT11.5 Cracraft, J. ; How to classify birds: the Howard & Moore Checklist of Birds	SAT12.5 Buchholz, R. ; Immunogenic exposure impacts mating-related personality traits in female wild turkeys.
2:45		S11.5 Huyvaert, K. ; Ecological factors influencing prevalence of avian blood parasites in wild birds in northern Vietnam		SAT11.6 James, F. ; Is there a continuum of phenotypes between birds and dinosaurs?	SAT12.6 Dunn, P. ; MHC variation is related to a sexually-selected ornament, survival and parasite resistance in common yellowthroats
Coffee Break					

SATURDAY, 18 AUGUST - Early Afternoon Sessions, S13 - SAT17

Buchanan A202	Buchanan A203	Chemistry D300	Chemistry B150	Chemistry D250	Room
SAT13: Songs and vocalizations	SAT14: Conservation	SAT15: Evolution	SAT16: Migration and stopover	SAT17: Habitat relationships	Session
SAT13.1 Gough, D. ; Effects of chronic noise on the singing behaviour of Pacific Wrens (<i>Troglodytes pacificus</i>) in the Pacific Northwest	SAT14.1 Powell, L. ; Recovery of Avian Movement Along the Interface of Primary and Secondary Amazon Rainforest	SAT15.1 Seneviratne, S. ; Phenotypic and genetic variation across hybrid zones between three allospecies of sapsuckers	SAT16.1 Elbin, S. ; Powerful Light Effects Birds Migrating over New York City on September 11	SAT17.1 Gawlik, D.E. ; Hydrologic Variability as a Global Driver of Colonial Waterbird Nesting	1:30
SAT13.2 Moseley, D. ; Female preferences are influenced by early experience and male vocal performance	SAT14.2 Will, T. ; Redirecting conservation: Golden-winged and Blue-winged warblers, species blenders, and concept tetanus	SAT15.2 Alcaide, M. ; Genomics of a ring species, the greenish warbler <i>Phylloscopus trochiloides</i>	SAT16.2 Cabrera-Cruz, S.A. ; Nocturnal bird migration in Mexico: first records	SAT17.2 Latta, S. ; Is there a carry-over effect from the breeding grounds to the wintering grounds?	1:45
SAT13.3 Sandoval, L. ; Do all vocal signals encode the same amount of information for species recognition? A case study using White-eared Ground-sparrows	SAT14.3 Slater, G. ; Reintroduction of a short-distance migrant, the Western Bluebird, to North Puget Sound, Washington	SAT15.3 Winker, K. ; Heteropatric speciation in a duck	SAT16.3 Goodrich, L. ; Energy-minimization flight strategy revealed for autumn-migrating accipiters in the Central Appalachians, Pennsylvania.	SAT17.3 Craig, C. ; Multi-scale habitat selection and nest success of Black-backed and American Three-toed Woodpeckers in managed, conifer forests of northern New Brunswick	2:00
SAT13.4 Schwarz, B. ; Does song function in territorial defense in the Western Sandpiper? An experimental approach.	SAT14.4 Bédard, S. ; Remnant habitats of managed landscape satisfy the ecological requirements of the Yellow-bellied Sapsucker in Québec boreal mixedwood.	SAT15.4 Billerman, S. ; Spatio-temporal Change in the Red-breasted/Red-naped Sapsucker Hybrid Zone in Oregon and California	SAT16.4 Slager, D. ; Habitat-dependent stopover duration in the Northern Waterthrush (<i>Parkesia noveboracensis</i>)	SAT17.4 Botson, B.A. ; Quantifying the effect of water level fluctuations on nest effort of White Ibis, Wood Storks and Great Egrets	2:15
SAT13.5 Harlow, Z. ; Song type use during countersinging and the function of duetting in the White-Breasted Wood-Wren (<i>Henicorhina leucosticta</i>) using simulated intrusion playback experiments and microphone sensor array localization	SAT14.5 Coe, S. ; Response of avian species abundance to wildfire fuel reduction in riparian woodland	SAT15.5 Duffie, C. ; Hybridization in island birds: a case study of the Jamaican endemic Streamertails	SAT16.5 Drever, M. ; Hydrological flow models can inform migration ecology of shorebirds	SAT17.5 Reiley, B. ; Effects of a Large Catastrophic Flood on Understory Habitat, Prey Abundance, and Presence of Swainson's Warblers	2:30
SAT13.6 Rush, A. ; The role of innate song as an isolating mechanism in <i>Empidonax</i> flycatchers	SAT14.6 Thompson, S. ; Response of grassland songbirds to large-scale tree removal	SAT15.6 Kingston, S. ; Hybridization, gene flow, and differentiation among towhees in Mexico: genome-wide sequence analysis	SAT16.6 Wagner, D. ; Impact of hydroelectric operations on migratory passerine plasma metabolites and stopover habitat quality	SAT17.6 Keyel, A. ; Testing the role of patch openness as a causal mechanism for apparent area sensitivity in a grassland specialist	2:45
Coffee Break					

SATURDAY, 18 AUGUST - Late Afternoon Sessions, S10 - SAT11 & SAT18

Room	Hennings 200	Hennings 201	Hennings 202	Chemistry D200	Buchanan A103
Session	Symposium 10	Symposium 11	Symposium 12	SAT11: Systematics, taxonomy	SAT18: Molecular ecology
3:30	S10.6 Angelier, F. ; What is the role of stress physiology in mediating "carry over" and "silver spoon" effects?	S11.6 Kilpatrick, M. ; Biodiversity and disease risk: dilution effect or simply habitat change?	S12.4 Irwin, D. ; Technological advances in the study of conservation genetics and seasonal connectivity of long-distance migrants: an exciting future	SAT11.7 DaCosta, J. ; RAD Phylogenetics: Harnessing Next-Generation Sequencing for Molecular Systematics of Parasitic Finches (Viduidae)	SAT18.1 Bowser, K. ; Sequencing a seabird food chain - Next generation sequencing of the feces of Atlantic puffin and the stomach contents of their major prey, Atlantic herring
3:45		S11.7 Soos, C. ; Emergence of avian cholera in the eastern Canadian Arctic: investigating origins, reservoirs, spread, impacts, and risk factors	S12.4 Irwin, D. ; Technological advances in the study of conservation genetics and seasonal connectivity of long-distance migrants: an exciting future	SAT11.8 Shearer, J. ; The Superb Bird-of-paradise: a phylogeographic study of a New Guinean passerine	SAT18.2 Taylor, S. ; Specialization to cold water upwellings facilitates gene flow in seabirds: additional evidence from the Peruvian Pelican, <i>Pelecanus thagus</i> (Aves: Pelecanidae)
4:00	S10.7 Ryan, C. ; Testing the prolactin-based model for avian clutch-size determination	S11.8 LaPointe, D. ; Mosquito-borne avian disease in Hawaiian forest birds: Individual to landscape effects	S12.5 Vidal, R. ; Designing a Neotropical landscape for migrants and residents: applying research results for on-the-ground conservation	SAT11.9 McKay, B. ; Using digital photography to investigate plumage coloration	SAT18.3 McCracken, K. ; Three intriguing examples of hybridization between two common species of South American ducks
4:15	S10.8 Newman, A. ; Effects of early-life conditions during nestling development on adult plasma corticosterone levels		S12.5 Vidal, R. ; Designing a Neotropical landscape for migrants and residents: applying research results for on-the-ground conservation	End	SAT18.4 Barr, K. ; Urban Landscape Genetics of a Protected Songbird
4:30	S10.9 Vitousek, M. ; Exploring the mechanisms linking individually consistent differences in stress responsiveness with reproductive success	S11.9 Owen, J. ; Avian disease ecology: from the individual to the landscape	S12.6 Davidson, I. ; A hemispheric perspective on Neotropical migratory bird conservation: Where do we go from here?		SAT18.5 Braun, M. ; Early Bird Update: The Avian Tree of Life Based on 28 Genes and 203 Taxa
4:45	S10.10 Garcia, V. ; What factors contribute most to lifetime fitness in Red-cockaded Woodpeckers?		S12.6 Davidson, I. ; A hemispheric perspective on Neotropical migratory bird conservation: Where do we go from here?		SAT18.6 Kimball, R. ; Independent Corroboration of the Avian Tree of Life

Poster Session 2 – Day Two

SATURDAY, 18 AUGUST - Late Afternoon Sessions, SAT13 - SAT17

Buchanan A202	Buchanan A203	Chemistry D300	Chemistry B150	Chemistry D250	Room
SAT13: Songs and vocalizations	SAT14: Conservation	SAT15: Evolution	SAT16: Migration and stopover	SAT17: Habitat relationships	Session
SAT13.7 Demko, A. ; Two singing modes in a wood-warbler with a complex repertoire, the Canada Warbler (<i>Cardellina canadensis</i>)	SAT14.7 Culp, L. ; Roads in Tidal Salt Marshes: Are Tidal Restrictions a Concern for Nesting Sharp-tailed Sparrows?	SAT15.7 Chessler, R.T. ; The evolution of nesting in the ovenbirds, family Furnariidae	SAT16.7 Mackenzie, S. ; Initial site selection influences behaviour and landscape use by a migratory passerine during stopover	SAT17.7 VanZandt, M. ; The Nesting Habitat and Spatial Distribution of Lanai's Endangered Hawaiian Petrel (<i>Pterodroma sandwichensis</i>).	3:30
SAT13.8 Narango, D. ; Variation in Signal Information within Urban Bird Song	SAT14.8 Smetzer, J.* ; Science-based management of shrubland birds using dynamic optimization on vermont's green mountain national forest	SAT15.8 Uy, J.A. ; The genetic basis of convergent plumage color among populations of an island flycatcher	SAT16.8 Wehtje, W. ; Migration directionality of european starlings (<i>sturnus vulgaris</i>) in europe predicts the species - North American migration patterns	SAT17.8 McClung, M. ; The response of breeding bird populations to ice damage in the Ozark Mountains, Arkansas	3:45
SAT13.9 Montgomerie, R. ; Why birds sing at dawn	SAT14.9 Lituma, C.M. ; Spatially Balanced Monitoring for Priority Grassland Birds in the Central Hardwoods BCR	SAT15.9 Johnson, J.A. ; Timing of breeding covaries with plumage color among breeding Gyrfalcons in central-west Greenland	SAT16.9 Henkel, J. ; Migration Ecology of Shorebirds on the Northern Gulf of Mexico	SAT17.9 Campbell, M. ; Using breeding bird atlas data to conserve species at risk in industrially managed Atlantic forests	4:00
SAT13.10 Rector, M. ; Begging and boasting: Atlantic puffin chick calls signal need and quality	SAT14.10 Ruskin, K. ; Testing for Stability in the Sharp-tailed Sparrow Hybrid Zone: 130 Years of Plumage Comparisons	SAT15.10 Maley, J. ; Using morphological and genetic characters to infer selection against hybrid clapper and king rails	SAT16.10 Olson, B. ; Migration Ecology of the Marbled Godwit in North America	SAT17.10 Preston, K. ; Using ecological minimum requirements to model greater sage-grouse habitat across their western range, U.S.A.	4:15
End	SAT14.11 Docherty, T. ; The conservation value of degraded habitats for bird communities in the lowland rainforests of Borneo	End	SAT16.11 Newhouse, M. ; Migration monitoring in an urban ecosystem: a comparison of two years of acoustic and banding data	SAT17.11 Mathewson, H. ; Variation in the Range-wide Distribution, Abundance and Productivity of a Habitat Specialist Songbird	4:30
			End	End	4:45

Poster Session 2 – Day Two

POSTER SESSION 1 – WEDNESDAY 15 & THURSDAY, 16 AUGUST

Topic: Behaviour

- PS1.1 **Maldonado, E.**; Phylogeography of the blue bunting, *Cyanocompsa parellina* (Aves: Cardinalidae)
- PS1.2 **Nightingale, A.**; Nest Aggression in Pacific Wren (*Troglodytes pacificus*) on Vancouver Island, BC
- PS1.3 **Rivers, J.**; Divergent responses to an extreme stressor in two sympatric *Tachycineta* swallows.
- PS1.4 **Sosa-Lopez, J.R.**; The vocal behaviour of the Brown-throated Wren (*Troglodytes aedon brunneicollis*): complex songs and insights on the use of syntactic rules
- PS1.5 **Dickinson, M.**; Sparrow Nest-site Selection on Great Duck Island, Maine: influences of habitat and predation
- PS1.6 **Beason, B.**; Behavioral responses of waterfowl to red and green lasers
- PS1.7 **Hucks, K.**; Dietary diversity of Barn Owls in Oklahoma
- PS1.8 **Brownson, A.**; Mate Guarding vs. Mate Choice: Reproductive Skew in Polyandrous Acorn Woodpecker (*Melanerpes formicivorus*) Groups
- PS1.9 **Elliott, K.**; Thyroid hormones as mediators of energy adjustments within aging charadriiform birds
- PS1.10 **LeClair, D.***; Examining effects of food and temperature during different stages of the breeding period on the reproductive success of a migratory bird
- PS1.11 **Lukianchuk, K.***; Social hierarchy and the development of dancing ability in young long-tailed manakins
- PS1.12 **Ellison, A. *U**; Testing Problem Solving in Turkey Vultures (*Cathartes aura*) Using the String-Pulling Approach
- PS1.13 **Campbell, G.**; Bicknell's Thrush - 10 years of monitoring a rare songbird in New Brunswick and Nova Scotia, results and next steps.
- PS1.14 **Middleton, H.**; Response of wintering ducks to disturbance at anthropogenic edges in Delta, BC
- PS1.15 **Soberanes, J.M.**; The Green Macaw (*Ara militaris*), and its ecological function in the consumption of seeds and fruits
- PS1.16 **Olsen, A.**; Predicting Beak Dynamics: Testing Hypotheses on the Relationship Between Skull Shape and Beak Behaviors in Anseriformes
- PS1.17 **Alamshah, A.**; The effect of maintenance behavior on the plumage microbiology of House Sparrows (*Passer domesticus*)
- PS1.18 **López-Segoviano, G.**; Territorial behavior and preferences of foraging migrant hummingbird *Selasphorus rufus* in a winter site
- PS1.19 **Krakauer, A.**; Lateral bias in inter- and intra-sexual behaviors by lekking male greater sage-grouse
- PS1.20 **Patterson, A.**; Assessing Foraging Conditions at Caspian Tern Restoration Sites
- PS1.21 **Armstrong, T.**; Female vocalizations correlate with the short-term fitness of male and female Red-winged blackbirds
- PS1.22 **Bayard, T.**; Broadcasting auditory cues to test for conspecific attraction in an obligate saltmarsh bird: Can social cues be used to facilitate restoration?

Topic: Biogeography

- PS1.23 **Hargrove, L.**; A Century of Biogeographic Shifts in the Avifauna of Southern California under Rapid Climate Change (San Jacinto Mountains 1908-2008)
- PS1.24 **Macdonald, C.**; Geographic variation in sex-ratios of wintering Snow Buntings (*Plectrophenax nivalis*).
- PS1.25 **Ríos-Muñoz, C.**; An analysis of biogeographic affinities in the avifauna of the Mexican Transition Zone

- PS1.26 **McCracken, K.**; Multilocus coalescent analysis reveals stepwise colonization of South America by Ruddy Ducks dispersing from North America, first to high altitude in the northern Andes followed by low altitude in the southern Andes
- PS1.27 **Novitch, N. *U**; Migration of Willow Flycatcher (*Empidonax traillii*) and Alder Flycatcher (*E. alnorum*) through the Tuxtla Mountains, Veracruz Mexico
- PS1.28 **Sanin, C.***; How much spatial variance in species richness of suboscines in South America can be accounted for by diversification rates?

Topic: Breeding biology

- PS1.29 **Ritchison, G.**; Effect of nestling sex ratio on the provisioning behavior of Eastern Bluebirds
- PS1.30 **Halkin, S.L.**; Placement of Objects of Different Colors Around Satin Bowerbird Bowers
- PS1.31 **Cancellieri, S.**; An experimental Investigation of Nest Reuse in an Open-cup Nesting Passerine
- PS1.32 **Kennedy, E.D.**; Relative contributions of early and late nests to breeding success of House Wrens
- PS1.33 **Lai, J.**; First Description of the nest of Long-billed Woodcreeper, *Nasica longirostris*
- PS1.34 **Miller, S.**; Use of Video-Monitoring to Study Partial Incubation and Clutch-initiation Behavior of Red-shouldered Hawks (*Buteo lineatus*)
- PS1.35 **Hill, J.**; Saltmarsh Sparrows and Male-biased Nestling Sex Ratios
- PS1.36 **Warkentin, I.**; Selection pressures on body size by age and sex in Merlins
- PS1.37 **Warkentin, I.**; Effects of browsing by hyper-abundant moose on a forest bird community
- PS1.38 **Lamle, A.**; Nest Structure and Composition of Scissor-tailed Flycatchers Across a Landscape Gradient
- PS1.39 **Shlepr, K.**; Impact of Bald Eagle (*Haliaeetus leucocephalus*) Predation on Herring Gull (*Larus argentatus*) Survivorship in Maine, USA
- PS1.40 **Pérez Sánchez, C.E.**; Detail description of the nest, eggs, and nesting habitat of the micro-endemic, near threatened Rosebellied bunting (*Passerina rositae*)
- PS1.41 **Ferretti, V.**; Historical variation in hatching success in a moving hybrid zone of Carolina and Black-capped chickadees (*Poecile carolinensis* and *P. atricapillus*)
- PS1.42 **Long, A.**; Effects of Prescribed Burning on Avian Nest Survival in the Southern Great Plains
- PS1.43 **Varner, D.**; Nesting Ecology of Florida Mottled Ducks using Altered Habitats
- PS1.44 **Jamieson, S.**; Factors influencing breeding success of wild North Island Brown Kiwi

Topic: Brood parasitism

- PS1.45 **Bolen, D.***; A possible role for ultraviolet reflectance in host recognition of Brown-headed Cowbird eggs
- PS1.46 **Pinney, T.**; Predator Abundance, Host Abundance, and Landscape Variables are not Consistent Predictors of Brown-headed Cowbird Presence across Years

Topic: Climate

- PS1.47 **Batdorf, K.***; Are all birds moving poleward? Understanding distributional shifts in Ohio's breeding birds
- PS1.48 **Feria, T.**; Future distribution of *Turdus grayi* in 2050
- PS1.49 **James, D.**; Gulf Hurricane Birds Inland: Swept Clean vs. Blown Through Hypotheses

- PS1.50 **Valencia-Hervert, J.**; Effect of climate change on nocturnal raptors at Hidalgo State, Mexico
- PS1.51 **Olsen, B.**; Toxin Load Decreases the Capacity of Common Loons to Adapt to Climate Change
- PS1.52 **Smith, K.**; Spring arrival of 8 species in Fayetteville, Arkansas 1844-1886, with special reference to Ruby-throated Hummingbirds today
- Topic: Community ecology**
- PS1.53 **Anderson, J.**; Colony collapse in Herring and Great black-backed Gulls: an assessment of possible causes and consequences.
- PS1.54 **Robinson, S.**; Size-abundance relationships in Bird communities
- PS1.55 **McGuire, S.**; Interspecific competition shapes grassland bird communities in southern Ontario agro-ecosystems.
- PS1.56 **Heung, M.**; The effects of soil moisture on avian insectivores
- PS1.57 **Toms, J.***; Interspecific competition between migratory American Redstarts (*Dendroica ruticilla*) and resident Adelaide's Warblers (*D. adelaidae*)
- PS1.58 **DeLap, J.**; Community Dynamics in Suburbanizing Forestlands of the Pacific Northwest
- PS1.59 **Almazán Núñez, R.C.**; The distribution of the frugivorous bird community in a dry forest successional gradient of southwestern Mexico
- Topic: Conservation**
- PS1.60 **King, D.**; Establishing quantitative habitat targets for non-breeding Golden-cheeked Warblers
- PS1.61 **Hethcoat, M.**; Increased nest predation and natural gas development; what's coming down the pipe for sagebrush obligate songbirds?
- PS1.62 **Stewart, B.**; From Data to Conservation: Using "citizen science" monitoring and research to advance stewardship and conservation action in the Maritime Provinces
- PS1.63 **Diemer, K.**; Evaluating agro-ecosystem management options to benefit grassland bird reproduction
- PS1.64 **Lu, N.**; Species-specific habitat fragmentation assessment, considering the ecological niche requirements and dispersal capability
- PS1.65 **Koford, R.**; Canada Goose foraging near an Iowa wind farm
- PS1.66 **Doster, R.**; Black Oystercatchers in California: A first large-scale survey effort
- PS1.67 **Beaudry, F.**; The loss of forest birds habitats resulting from projected land use under alternative economic policy scenarios
- PS1.68 **Ludwig, E.**; Reproductive Ecology of Eastern Wild Turkey Hens in an Agricultural Landscape
- PS1.69 **Knight, E.**; Grassland songbird productivity: Does the edge effect on nest predation vary between agricultural types?
- PS1.70 **Doyle, F.I.**; Why has the Sooty Grouse population declined on Haida Gwaii, British Columbia, Canada?
- PS1.71 **Doyle, F.I.**; Using multiple approaches to study the Threatened Haida Gwaii Northern Saw-whet Owl
- PS1.72 **Kyle, K.**; Incorporating Pest Control by Birds into Agricultural Landscapes: the ecosystem service value of bird-friendly farm management
- PS1.73 **Robertson, H.**; The SCSCB Caribbean Birding Trail: Promoting Conservation and Sustainable Livelihoods through Bird and Nature Tourism
- PS1.74 **Mounce, H.**; Contemporary genetic diversity and translocation plans for an endangered Hawaiian

- honeycreeper, the Kiwiku (Maui Parrotbill; *Pseudonestor xanthophrys*)
- PS1.75 **Warren, M.**; A simple method for preventing the entrapment and death of cavity-nesting species in vault toilets
- PS1.76 **Parrish, C.**; Assessing potential impacts of wind development on breeding populations of the Bicknell's Thrush in northern New Hampshire
- PS1.77 **Gill, C.**; Night Birds Returning: a collaborative effort to restore seabird nesting habitat in Gwaii Haanas National Park Reserve and Haida Heritage Site
- PS1.78 **Elliott-Smith, E.**; The 2011 international piping plover census: population status and discovery of an important wintering area
- PS1.79 **Walker, J.**; Habitat Suitability Modelling for the Yellow-breasted Chat (*Icteria virens virens*) in Anders Field Complex, Point Pelee National Park.
- PS1.80 **Calderón-Parra, R.**; Environmental education proposal based on the bird species distribution in La Ciénega Grande de Xochimilco, Federal District, Mexico.
- PS1.81 **Hiriart-Bertrand, L.**; Considerations for Creating a Marine Protected Area for Spheniscus Penguins in southern Chile
- PS1.82 **Tozer, D.**; Population trends of wetland birds in the Great Lakes basin: 1995 to 2011
- PS1.83 **Sustaita, Z.**; Possible change in distribution of Elf Owl, *Micrathene whitneyi*
- Topic: Diseases and parasites**
- PS1.84 **Villar, C.**; Prevalence and lineages of Plasmodium and Haemoproteus in Wood Stork Nestlings in Three Regions of the American Continent
- PS1.85 **Carbó Ramírez, P.**; Occurrence of blood parasites in bird communities from two sites with different degree of urbanization in central Mexico
- PS1.86 **Ballard, J.**; Lesions Associated with Wellfleet Bay Virus in Common Eiders (*Somateria mollissima*)
- PS1.87 **Potter, B.**; Eggshell Microstructure and Temperature Fluctuation Facilitate Microbial Invasion during Incubation
- Topic: Ecological models and survey methods**
- PS1.88 **Cabrera-Cruz, S.**; Using theoretical flight speeds to discriminate birds from insects in radar studies
- PS1.89 **Moulton, C.**; Assessment of peak detection periods for surveying secretive marsh birds in Idaho
- PS1.90 **Hager, S.**; Scavenging affects persistence of avian carcasses resulting from window collisions in an urban landscape
- PS1.91 **Weeber, R.**; Monitoring Colonial Waterbirds in Canada's Boreal Forest: Survey development and patterns of distribution and abundance.
- PS1.92 **Macchia, E.**; Does sampling underneath guy wires underestimate the loss of birds at communication towers?
- PS1.93 **Darveau, M.**; Using pre-existing surveys to answer new questions about birds
- PS1.94 **Jansen, E.**; Method for estimating raptor flight height to calculate collision risk prior to the development of a wind energy facility.
- PS1.95 **Fletcher, D.**; Testing assumptions of an avian double-sampling area search method on riparian birds of the Lower Colorado River
- PS1.96 **Gahbauer, M.**; Assessing avian mortality rates due to power line collisions
- PS1.97 **Bosley, J.**; It's good to have neighbors: developing an occupancy model for a declining nesting population of Bald Eagles in Florida Bay, Everglades National Park

Topic: Ecotoxicology and pollution

- PS1.98 **Edmonds, S.**; Metals in feathers of Rusty Blackbirds from breeding and wintering areas with comparison to breeding co-inhabiting songbirds
- PS1.99 **Rowse, L.**; Exposure of songbirds to heavy metal contaminants across an urban to rural landscape
- PS1.100 **LÓPEZ ISLAS, M.**; Hepatic biomarkers to assess health condition in American Coots (*Fulica americana*) from two wetlands in the Basin of Mexico: Tecocomulco, Hidalgo and Xochimilco, Mexico City
- PS1.101 **Townsend, J.**; Mercury concentrations in tropical resident and migrant songbirds vary with geography and feeding guild on hispaniola
- PS1.102 **Adams, E.**; Estimating Risk of Mercury Exposure to Migratory Birds in the Pacific Flyway
- PS1.103 **Stratford, J.**; No evidence of contamination from natural gas drilling in terrestrial birds
- PS1.104 **Keller, R.**; Calcium limitation in high elevation birds in the southern appalachians

Topic: Evolution

- PS1.105 **Friesen, V.**; How Do Sympatric Seasonal Populations of Band-Rumped Storm-petrels Arise? Testing Mechanisms of Evolution
- PS1.106 **Harris, R.**; Evolution of nesting behavior in Megapodes.
- PS1.107 **Gowen, F.**; A genetic portrait of divergence and gene flow among two lineages of Western Scrub-Jay (*Aphelocoma californica*) based on mitochondrial and nuclear markers
- PS1.108 **Spellman, G.**; Insights into the shared evolutionary history of birds and their gut microbiota
- PS1.109 **Deane, P.**; Conspecific song preference in *Melospiza* sparrows: A transcriptome of candidate neural genes
- PS1.110 **Burg, T.**; Asymmetrical hybridization in sapsuckers
- PS1.111 **Curry, C.**; Evolution of song variation across a complex hybrid zone in Tufted and Black-crested titmice
- PS1.112 **Hubbard, J.**; Do candidate genes associated with melanin pigmentation underlie plumage differences between two recently diverged subspecies of barn swallow (*Hirundo rustica*)
- PS1.113 **Mason, N.***; Evolutionary patterns and correlates of avian vocalizations in a continent-wide radiation of songbirds (Thraupidae).
- PS1.114 **Weir, J.**; Diversity Dependent Cladogenesis and Trait Evolution in the Adaptive Radiation of the Auks (Aves: Alcidae)

Topic: Foraging

- PS1.115 **Mancuso, K.**; The effect of selection logging on sapwell tree selection by the yellow-bellied sapsucker in Algonquin Provincial Park
- PS1.116 **Alicia, A.**; The Effect of Supplemental Feed on Northern Bobwhite Quail Chick Survival in the Texas Rolling Plains
- PS1.117 **Bobowski, M.**; Foraging behavior and decision strategies by overwintering Red-tailed Hawks (*Buteo jamaicensis*) and American Kestrels (*Falco sparverius*) in northeastern Arkansas
- PS1.118 **Newberry, G.**; Differences in diet composition of coexisting Violet-green and Tree Swallows during offspring provisioning
- PS1.119 **Klassen, J.**; Prey switching by wading birds as an alternative foraging strategy in unpredictable environments
- PS1.120 **Walsh, R.**; A (relatively) rapid method for compound specific stable isotope analysis of feather amino acids, and its applications

- PS1.121 **Walsh, R.**; Access to aquatic resource subsidies affects tree swallow diet and breeding

Topic: General ecology

- PS1.122 **Paleczny, N.**; Estimating Abundance and Prey Demand of Common Loon (*Gavia immer*) using Distance Sampling on Lake Opeongo, Algonquin Provincial Park, Canada
- PS1.123 **Butler, C.**; Winter ecology of Yellow Rails in Oklahoma
- PS1.124 **Carnochan, S.**; A glance at the effects of a 1-in-300 year flood on the nesting success of mixed-grass prairie songbirds in Southwestern Manitoba
- PS1.125 **Haynam, R.**; GPS Transmitter Bias of Greater Sage-Grouse Survival
- PS1.126 **Hitch, A.**; Comprehensive Avian Surveys in the Masembo watershed of the Mekongga Mtns. region in Southeast Sulawesi, Indonesia
- PS1.127 **Rader, J.**; Exploring phenotype-environment correlations in South American *Cinclus* ovenbirds
- PS1.128 **O'Shaughnessy, R.**; Testing the ideal free distribution of spring migratory waterfowl along the Wabash River, Illinois.
- PS1.129 **Weber, W.C.**; 50 Years of Change in the Avifauna of the Vancouver Area, British Columbia

Topic: Habitat relationships

- PS1.130 **Mahony, N.**; Assessing the utility of a habitat monitoring scheme in developing species-habitat relationships along BBS routes.
- PS1.131 **Hubbard, L.**; The Road Ahead: characteristics of roadside right-of-ways that influence avian abundance and diversity in agricultural landscapes
- PS1.132 **Burt, B.**; A Habitat Management Model Based on Foraging Red-cockaded Woodpecker Habitat Use and Avoidance
- PS1.133 **Amundson, C.**; Hierarchical Models of Distribution and Abundance of Birds across Coastal Parks of Southwestern Alaska
- PS1.134 **Cunningham, J.**; Effects of experience on male and female breeding habitat selection in Arctic-breeding shorebirds
- PS1.135 **Buxton, V.**; Making the most of what remains: examining the quality of urban grasslands for conservation-priority birds in Illinois
- PS1.136 **Bailey, B.**; Migratory birds in tropical agro-ecosystems: Assessing the influence of patch and landscape factors on habitat quality.
- PS1.137 **Hockman, E.**; Bachman's Sparrow population, habitat requirements, and detectability in oak savannas at Fort Campbell, Tennessee-Kentucky
- PS1.138 **Nelson, S.K.**; Breeding Ecology of Marbled Murrelets in Port Snettisham, Southeast Alaska
- PS1.139 **Yanco, S.**; Home-range and habitat use by Flammulated Owls (*Otus flammeolus*) following a large-scale forest fire in central Colorado
- PS1.140 **Smith, J.**; A habitat model to assist in the conservation of Crested Caracara
- PS1.141 **Solomon, L.**; Territory selection by Puaiohi: Influence of food abundance, nest sites, and forest composition and structure
- PS1.142 **Peterson, S.**; Nest Site Characteristics of Least Bitterns in an Urban Wetland
- PS1.143 **Setash, C.**; Wing morphology and foraging stratification in forest-dwelling birds

- PS1.144 **Yantachka, J.**; Relationships among Adirondack Songbird Communities, Calcium Availability, and Acidic Deposition
 PS1.145 **Dale, B.**; Does distance to wetlands influence upland grassland birds?

Topic: Landscape ecology

- PS1.146 **Lee, M.**; Assessing scale dependencies in avian species in a pine forest, agriculture and urban matrix
 PS1.147 **Niccoli, M.**; Are Occupancy Models Feasible Alternatives to Collecting Demography Data?
 PS1.148 **Lin, F-Y.**; Are fragments always islands? Influence of habitat specialization on macroecological patterns of forest birds in fragmented landscapes, Taiwan
 PS1.149 **Merkord, C.**; Projecting long-term landscape change along the Missouri River: implications for cottonwood forests and bird populations
 PS1.150 **Lockhart, J.**; Assessing the relative effects of habitat fragmentation and habitat loss on grassland bird communities in south west Manitoba
 PS1.151 **Halstead, K.**; Regional influences on local bird diversity in oak communities of the Rogue Basin, Oregon
 PS1.152 **Paprocki, N.**; Making Regional Management Decisions in a Time of Global Change: What Can We Learn From a Historical Comparison of Wintering Raptors in Southwest Idaho?

Topic: Life histories

- PS1.153 **Soto-Rojas, O.**; Life history attributes of a breeding population of the loggerhead shrike (*Ianus ludovicianus*) from Central Mexico.
 PS1.154 **Russell, J.**; Comparative Growth and Development Rates of Boreal Owl Nestlings Based on Sex

Topic: Mating systems

- PS1.155 **Armiger, J.**; Group composition and site-fidelity in the facultatively cooperative Yucatan Wren (*Campylorhynchus yucatanicus*)
 PS1.156 **Landoll, D.***; Annual and Environmental Variation in Extra-pair Paternity in a Socially Monogamous Savannah Nesting Passerine

Topic: Migration and stopover biology

- PS1.157 **Johnson, P.**; Migratory stopover of landbirds within the Western Lake Erie Basin: exploring how landscape features influence migrant abundance to inform conservation.
 PS1.158 **McLaren, J.**; Modelling stopover scheduling and reaction to wind among nocturnal migrants in a spatial context
 PS1.159 **Carter, J. *U**; Changes in migration timing of twelve passerine species over a 45-year interval in the High Plains.
 PS1.160 **Paxton, K.***; Connecting the Dots: Understanding Migration in the Context of Other Periods of the Annual Cycle
 PS1.161 **Crewe, T.**; The Canadian Migration Monitoring Network - Réseau canadien de surveillance des migrations: Advancing migratory bird research across Canada.
 PS1.162 **Cardenas, L.**; Species richness and relative abundance of migratory landbirds during spring and fall migration in the Darién of Colombia
 PS1.163 **Stutchbury, B.**; Using geolocators to link fine scale seasonal connectivity to population declines in the Wood Thrush
 PS1.164 **millikin, R.**; Migration Corridors; a study of frame bias in the migration monitoring of landbirds
 PS1.165 **Horton, K.**; Wood-warbler vocalizations in response to flight calls

- PS1.166 **Ballard, B.**; Migration routes and wintering sites of Reddish Egrets breeding in Texas
 PS1.167 **DeSando, S.**; Nutritional value of native and invasive fruits for migrating songbirds in the western Finger Lakes region of New York
 PS1.168 **Shipley, J.R.***; Monitoring Continental-scale Bird Phenology using NEXRAD
 PS1.169 **Casbourn, G.**; Tracking the migration of declining Ontario Wood Thrush (*Hylocichla mustelina*) using geolocators
 PS1.170 **Bierregaard, R.**; Navigation and Orientation in Migrating Ospreys: Insights from Satellite Telemetry.
 PS1.171 **Moran, A.**; Swollen ankles: can tarsal swelling be used to distinguish between Rufous hummingbirds that are actively nesting and those that are passing through?
 PS1.172 **Sanders, C.E.**; Acoustic Monitoring of Nocturnal Migrants over the Western Basin of Lake Erie
 PS1.173 **Jahn, A.**; Using geolocators to track migration of Tyrannus flycatchers in South America
 PS1.174 **Diehl, R.**; Is the airspace a habitat?
 PS1.175 **Zelt, J.**; Illuminating Shifting Migratory Bird Patterns Using A Legacy Citizen Science Project
 PS1.176 **Rasmussen, R.**; Diurnal Short and Long Distance Passerine Migrants
 PS1.177 **Gautreaux, J.**; Examination of spring stopover of migratory landbirds in an urban coastal landscape: a multi-scaled approach.
 PS1.178 **English, P.**; Determining wintering and stopover locations of Ontario's eastern whip-poor-wills
 PS1.179 **Aborn, D.**; Mass Changes of Autumn Migrants at an Urban Stopover in Tennessee
 PS1.180 **Jehl, J.**; The spectacular migration of eared grebes that has never been seen: a ghost of the passenger pigeon
 PS1.181 **Zenzal, T.***; Stopover of Ruby-throated Hummingbirds: sex-dependent autumn migration on the Gulf Coast

Topic: Molecular ecology

- PS1.182 **Campbell, K.**; Geographic distribution of within-species genetic variation among 14 species of Philippine birds.
 PS1.183 **Bubac, C.**; How habitat connectivity shapes genetic structure during range expansion: insights from Virginia's Warbler in the Black Hills
 PS1.184 **Jellen, J.**; A genetic study of osprey (*Pandion haliaetus*) in the Greater Yellowstone Ecosystem: Creating novel genetic markers to explore polyandry, pedigree, and the effect of familial relationships on nest usage
 PS1.185 **Rivera-Ortiz, F.A.**; Diversity Genetic of Military Macaw (*Ara militaris*) in México.

Topic: Movements and dispersal

- PS1.186 **Girault, C.**; Post-breeding movements and habitat use by ring-billed gulls: a diversity of strategies
 PS1.187 **Eason, D.**; Tree Swallow (*Tachycineta bicolor*) nest success, site fidelity, and spatial movement at Red Slough WMA
 PS1.188 **Engler, J.**; Population genetics reveal the role of long distance dispersal and allele surfing in contact zone movement in two parapatric distributed Hippolais sister species
 PS1.189 **Humble, D.**; Within- and between-winter movements of Western and Clark's Grebes
 PS1.190 **Bolduc, F.**; Consistency in the distribution of molting scoters and common eiders in the estuary and Gulf of St. Lawrence in 1998 and 2010

Topic: "Other"

- PS1.191 **Gow, E.**; Offspring demands and body condition influence sex-specific parental provisioning patterns in the Northern Flicker (*Colaptes auratus*)
- PS1.192 **Borstad, G.**; A "Remote Sensing Awareness Tutorial" for ornithologists
- PS1.193 **Hof, D.**; Escalation of aggressive signals in black-throated blue warblers: A sequential playback study
- PS1.194 **Balasubramaniam, P.**; Patterns of life history variation in a breeding bird community along an elevational gradient
- PS1.195 **Whitfield, M.**; Bird mortalities in open-top pipes
- PS1.196 **Fitzgerald, T.**; Habitat loss is not a primary factor limiting northern Chimney Swift populations
- PS1.197 **Friesen, M.**; Close relatives with different odors: A Comparison of feather odor signatures between Tricolored (*Agelaius tricolor*) and Red-winged (*Agelaius phoeniceus*) Blackbirds
- PS1.198 **Sekercioglu, C.**; The effects of climate change on tropical birds
- PS1.199 **Lankau, H.**; Ovenbird (*seiurus aurocapilla*) response to regenerating seismic lines
- PS1.200 **del Hoyo, J.**; Unveiling the Future of the Handbook of the Birds of the World (HBW) Project
- PS1.201 **Herrera Alsina, L.***; Wind turbines and birds: A phylogenetic and morphological approach
- PS1.202 **Bergman, C.**; Black Oystercatchers as a sentinel species in the recovery of Northern Abalone, or... top predator in a pit of no return?
- PS1.203 **St. Clair, C.C.**; Spatial and temporal correlates of mass bird mortality in the oil sands of Alberta
- PS1.204 **Rodriguez-Contreras, V.**; Expansion of the Breeding Bird Survey Program to Mexico
- PS1.205 **Lipshutz, S.**; Hybridizing Jacanas: A polyandrous perspective
- PS1.206 **Chesney, T.**; IBA Canada Poster for NAOC
- PS1.207 **Dorman, W.**; Egg characteristics in relation to nesting microenvironment in captive Southern Rockhopper Penguins, *Eudyptes chrysocome*
- PS1.208 **Garcia, R.**; Status of the wild scarlet macaw population in guatemala
- PS1.209 **Knowlton, J.**; First confirmed record of hybridization in the Hawaiian honeycreepers: 'i'wi (*vestiaria coccinea*) x 'apapane (*himantoe sanguinea*)
- PS1.210 **Erickson, A.***; Demographic Responses of grassland songbirds to a patch-burn grazing management in the Flint Hills

Topic: Parental care

- PS1.211 **Morrison, A.**; Structural plumage colouration as an indicator of direct reproductive benefits in the Mountain Bluebird (*Sialia currucoides*)
- PS1.212 **Volker, C. *U.**; Male Carolina Chickadees provide more parental care
- PS1.213 **Halley, M.**; Multiple Male Feeders at Nests of the Veery (*Catharus fuscescens*)
- PS1.214 **Minoletti, A.**; Time investment in parental care of the Chilean Hawk (*Accipiter chilensis*) in a white oak (*Nothofagus macrocarpa*) forest of Central Chile

Topic: Phylogenetics

- PS1.215 **Oliveros, C.**; Reconstructing the biogeographic history of Philippine whistlers reveals complex scenarios of colonization history and a distinct Palawan taxon
- PS1.216 **Rodriguez-Flores, C.**; Phylogenetic structure of hummingbird communities in Mexico

PS1.217 **García, G.**; A review of the Green-fronted hummingbird *Amazilia viridifrons* (Aves: Trochilidae) using mitochondrial and nuclear genes.

Topic: Phylogeography

- PS1.218 **Williford, D.**; Phylogeography of the Scaled Quail
- PS1.219 **Cavazos, A.**; Phylogeography of the olive sparrow (*Arremonops rufivirgatus*) and the green-backed sparrow (*A. chloronotus*) in México.

Topic: Physiology, hormones, and immunology

- PS1.220 **Kelly, K.**; Is the Colour of Atlantic Puffin Bills and Feet an Honest Signal of Condition?
- PS1.221 **Reichart, L.**; Baseline Measurements of Fecal Corticosterone in Nestling Red-winged Blackbirds
- PS1.222 **Guindre-Parker, S.**; Characterizing Variation and Repeatability in Acquired Humoral Immunity: the Effect of Age, Diet Quality and Body Condition on Immunoglobulin Y Levels
- PS1.223 **Jenkins, B.**; Heritability of the physiological stress response in the North American barn swallow *Hirundo rustica erythrogaster*
- PS1.224 **Fronstin, R.**; Eggshell colour, biliverdin and sexual signalling in the European starling (*Sturnus vulgaris*): a physiological perspective
- PS1.225 **Bosque, C.**; Survival and energy turnover rates are negatively related across species of passerines
- PS1.226 **Madliger, C.***; Applying stress hormones to conservation: considering the repeatability of corticosterone levels
- PS1.227 **Ardia, D.**; A Research Coordination Network in Ecological Immunology (RCNE)
- PS1.228 **Chastant, J.**; Wading bird stress response to prey availability in a managed lake ecosystem
- PS1.229 **Rose, E.**; Using artificial-egg heart rate monitors to assess the physiological response of American Oystercatchers (*Haematopus palliatus*) to anthropogenic activity.
- PS1.230 **Hatch, M.**; A comparison of differential leukocyte counts between five species of songbird captured at a southern migratory stopover site and a northern breeding site
- PS1.231 **Fairhurst, G.**; Post-breeding feather corticosterone from Tree Swallows (*Tachycineta bicolor*) predicts subsequent switching between two types of nest boxes
- PS1.232 **Skrade, P.***; Age-specific breeding probabilities of Mountain Plovers in Montana
- PS1.233 **Skrade, P.**; Variation in circulating prolactin in incubating Mountain Plovers
- PS1.234 **Zhang, Y.***; Metabolic Rates in Swallows: Do Energetically Expensive Lifestyles Affect Metabolic Capacities in Birds?

Topic: Population biology

- PS1.235 **Foster, K.**; Monitoring Avian Productivity and Survivorship in the Alberta Oil Sands Region
- PS1.236 **Moore, D.**; Breeding site tenacity and productivity of Common Terns nesting in the North Channel of Lake Huron.
- PS1.237 **Pearse, A.**; Evaluating transmitter effects on sandhill cranes: implications for whooping crane research
- PS1.238 **Hennig, J.**; Implementing a new aerial survey method to estimate abundance of spring-migrating waterfowl
- PS1.239 **Unfried, T.**; Investigating potential source-sink dynamics of Song Sparrows in the fragmented urban landscape around Seattle, WA

- PS1.240 **Shriver, W.G.**; Annual variation in wood thrush population size and survival from 1974 - 2011
- PS1.241 **Rodríguez Hernández, K.M.**; Richness and abundance of the birds of San Juan Coyula, Oaxaca, México
- PS1.242 **Rodenhouse, N.**; Climate sensitivity of a migratory songbird
- PS1.243 **Roche, E.**; Increased exposure to mist nets leads to net avoidance in cliff swallows
- PS1.244 **Hillman, M.**; Abundance, survival, and movement rates of Least Terns (*Sternula antillarum*) at Cape Lookout National Seashore, North Carolina
- PS1.245 **Takats Priestley, L.**; The Alberta Nocturnal Owl Survey, 10 years, 100 Routes, and Counting

Topic: Sexual Selection

- PS1.246 **Gañán, N.**; Is skin colour a sexual signal in the Brown Booby (*Sula leucogaster*)?

Topic: Song and vocalizations

- PS1.247 **Doolittle, E.**; A Music Theoretical Approach to the Study of Bird Song
- PS1.248 **García, N.**; Intra and inter-specific vocal variation in three species of Grosbeaks (Passeriformes: Cardinalini) and its relationship with body mass.
- PS1.249 **Karin, B.**; Song Comparison of two *Amphispiza belli* subspecies
- PS1.250 **Miller, E.H.**; Systematic value of snipe sounds
- PS1.251 **Benedict, L.**; Variable and stable elements of learned bird song across a large geographic distance
- PS1.252 **Kelemen, E.**; The two-song repertoire of Carolina Chickadees (*Poecile carolinensis*): potential implications for mate choice during hybridization
- PS1.253 **LaZerte, S.**; Vocal adjustment by black-capped and mountain chickadees in urban and noisy habitats
- PS1.254 **Hale, J.**; Role of Vocal Characteristics in Individual Recognition Among Male Greater Prairie-Chickens, *Tympanuchus cupido*

Topic: Systematics, taxonomy, and morphology

- PS1.255 **VanderWerf, E.**; Ecogeographic Patterns of Morphological Variation in Elepaios (*Chasiempis Spp.*: Bergmann's, Allen's, and Gloger's Rules in a Microcosm
- PS1.256 **Cicero, C.**; Vertebrates in the cloud (vertnet.org): Are we there yet?

- PS1.257 **Lara, C.**; A new species of wren (Troglodytidae) from a dry inter-Andean valley of Colombia
- PS1.258 **Venkatraman, M. *U.**; Divergence among cloud forest isolates of the Unicolored Jay (*Aphelocoma unicolor*) in the Middle American highlands
- PS1.259 **ESCALANTE, P.**; Mitochondrial phylogeography of the White-bellied Wren (*Uropsila leucogastra*)

Topic: Tropical Ecology

- PS1.260 **Rotenberg, J.**; A long-term banding study in the Maya Mountains of Belize: four-years and counting.
- PS1.261 **Contreras-González, A.M.**; Seed dispersal and seed predation by birds that eat fruits of endemic columnar cacto from semi-arid region of central Mexico
- PS1.262 **Dauphine, N.S.**; Common Myna (*Acridotheres tristis*) introductions, impacts, and management on islands: a global review with an emphasis on the tropical Pacific
- PS1.263 **Garcia, W.**; Monitoring juvenile Harpy Eagle behaviors in Belize: from nestling, fledgling, adopted bird, and beyond

Topic: Urban and agricultural ecology

- PS1.264 **Thomas, A.**; State Acres for Wildlife Enhancement program and grassland birds: implications for the role of America's farmland in conservation.
- PS1.265 **Lesak, A.**; Very low housing density negatively affects forest songbird nesting success
- PS1.266 **Palmer, C.**; Use of barn owl nest / roost site occupancy and productivity data to design mitigations against highway collision effects, Delta, BC.
- PS1.267 **Thorngate, N.**; Relating turbine-associated migratory bird fatality rates to nocturnal movement patterns and local landscape features at the Montezuma Hills Wind Resource Area in central coastal California
- PS1.268 **Fidorra, J.**; Habitat selection and the importance of human-constructed wetlands for two populations of Great Egrets in the Southeastern USA.
- PS1.269 **Job, J.**; Can you hear me now?: Chipping sparrows (*Spizella passerina*) alter their songs in the presence of urban noise
- PS1.270 **Sherburne, J.**; You are what you eat: Polybrominated Diphenyl Ether (pbde) levels in the eggs of two species of wild birds exposed to pbde-laden biosolids

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POSTER SESSION 2 – FRIDAY, 17 & SATURDAY, 18 AUGUST

Topic: Behaviour

- PS2.1 **Derrickson, K.**; Birds Do Not See Their Eggs
- PS2.2 **Peluc, S.**; Food availability or nest predation risk during incubation and nestling stages. Can a single factor explain all the variability in reproductive behavior?
- PS2.3 **Desrosiers, M.**; The social context of extra-pair paternity and intraspecific aggression in breeding Island Scrub-Jays
- PS2.4 **McGowan, K.**; Everybody Poops: a review of defecation behavior in birds
- PS2.5 **Hentze, N.**; Flight Characteristics of Over-ocean Flocking Dunlin (*Calidris alpina pacifica*) at Boundary Bay, British Columbia
- PS2.6 **Lam, C.**; Nesting behaviour of resident Anna's Hummingbirds (*Calypte anna*) in Southern Vancouver Island, British Columbia
- PS2.7 **Parker, L.**; Female ornamentation and egg colour signal maternal reproductive investment in the american robin
- PS2.8 **Palestis, B.**; Behavioral Responses of Common Tern Chicks to Feather Sample Removal
- PS2.9 **Leal-Sandoval, A.**; Parental care and transition to the independence in the Blue-footed Booby (*Sula nebouxii*)
- PS2.10 **Bribiesca, R.**; Effect of floral abundance and intra/heterospecific interactions in territorial behavior on the White-eared Hummingbird (*Hylocharis leucotis*).
- PS2.11 **Boves, T.**; Information content and habitat contingency of multiple plumage ornaments in a canopy-dwelling songbird, the Cerulean Warbler
- PS2.12 **Shaffer, J.**; Avoidance of wind generators by breeding grassland birds
- PS2.13 **Salinas-Melgoza, A.**; Behavioral plasticity in a Neotropical parrot
- PS2.14 **Lindstrom, J.**; Effect of Cover Type on Bird Behavior During Spring Migration
- PS2.15 **Borowske, A.**; Do heterospecific size and demeanor influence visitation behavior of birds at urban foraging patches?
- PS2.16 **Johnson, L.S.**; The process of fledging in the Mountain Bluebird (*Sialia currucoides*)
- PS2.17 **Andrews, J.**; Heterospecific attraction in grassland birds: Who is listening to whom?
- PS2.18 **Mumme, R.**; Response of Captive Raptors to Avian Mobbing Calls: the Roles of Mobber Size and Raptor Experience
- PS2.19 **Hynes, D.**; Vocalizations of Red Crossbills (*Loxia curvirostra*) in Newfoundland
- PS2.20 **Grava, T.**; Habitat quality affects the perception of dominant males based on their relative song structure
- PS2.21 **Casady, M.**; Differences in behavior of wild whooping cranes (*Grus americana*) using natural and suburban winter habitat.
- PS2.22 **Saunders, S.**; Innate anti-predator behavior in captive-reared Great Lakes Piping Plovers
- PS2.23 **Montes-Medina, A.C.**; Individual variation in nesting vocalizations of the lilac-crowned parrot (*amazona finschi*) in Mexico
- PS2.24 **Bogrand, A.**; Nest defense by Carolina Wrens (*Thryothorus ludovicianus*) in natural and urban environments.
- PS2.25 **Rothstein, S.**; Singing tough and sexy: cowbird song repertoire use
- PS2.26 **Aidala, Z.**; Physiological and fitness effects of nest reuse in the Eastern Phoebe (*Sayornis phoebe*)

Topic: Biogeography

- PS2.27 **Kobelkowsky, T.**; Biogeographic patterns of the avifauna of the Sierra Madre Occidental, Mexico
- PS2.28 **Ham Dueñas, J.G.**; Biogeography of Lampornis (Aves: Trochilidae): Neogene diversification across Mexican and Central American highlands
- PS2.29 **Chua, V.**; Biogeographic position of Palawan from the perspective of the Rufous-tailed Tailorbird. (*Orthotomus sericeus*)
- PS2.30 **Scott, A.**; Breeding Distribution and Biogeography of Endangered and Extinct Landbirds in the Southwest Pacific

Topic: Breeding biology

- PS2.31 **Reitsma, L.**; Older male Canada Warblers have more robust plumage and are more fit
- PS2.32 **Corbani, A.**; Estimation of songbird nesting success over an entire boreal forest landscape
- PS2.33 **Drolet, B.**; Estimating bird's nests chronology to describe the breeding phenology of birds in Canada using the R package Rnest
- PS2.34 **Deane, L.**; Sex Roles in Breeding Wilson's Plovers and their Implications for Diet, Habitat Use, and Reproductive Success
- PS2.35 **Buckley, S.**; Using motion-triggered trail cameras to document nest predation in the declining Rusty Blackbird (*Euphagus carolinus*): A novel nest-monitoring technique for forest passerines
- PS2.36 **McDonald, M.V.**; Grassland, Shrub, and Forest Edge Birds Population Trends Influenced by Invasive Plants
- PS2.37 **Tarvin, K.**; Hatching asynchrony occurs independent of the onset of incubation in American Goldfinches
- PS2.38 **Koczur, L.**; Nest success and chick survival of american oystercatchers in Texas
- PS2.39 **McClintock, M.**; Cost of incubation: using nest microclimate to understand tradeoffs during early season breeding in Wood Ducks (*Aix sponsa*). M.E. McClintock, G.R. Hepp, Auburn Univ., Auburn, Alabama, USA; R.A. Kennamer Savannah River Ecology Lab, Aiken, South Carolina, U
- PS2.40 **Wynia, A.**; Comparison of Nest-site Vegetation Characteristics Among Three Understory-dwelling Passerines: Swainson's Warblers, Northern Cardinals, and Indigo Buntings
- PS2.41 **Hanley, D.**; Eggshell conspicuousness and paternal brood patch development in the American Thrashers
- PS2.42 **Olbert, J.**; Determining Reasons of Nesting Failure and Brood Reduction at Snail Kite (*Rostrhamus sociabilis plumbeus*) Nests on the Kissimmee Chain of Lakes in Florida
- PS2.43 **Skone, B.**; Winter Wheat: A Potential Nesting Habitat for Upland Nesting Ducks
- PS2.44 **Augustine, J.**; A three-year study of House Wren reproduction and feeding rates in three habitats representing varying levels of human disturbance
- PS2.45 **Wails, C.**; Improving Accuracy and Efficiency of Common Tern Productivity Estimates: A Tool for Aging Chicks in the Field
- PS2.46 **Barber, C.**; Role of parental age on European starling (*Sturnus vulgaris*) brood sex ratios
- PS2.47 **Skipper, B.**; Effects of weather on nesting success of urban and exurban Mississippi kites
- PS2.48 **Chilton, G.**; Impact of severe tropical cyclone Yasi on bower use by the Great Bowerbird, *Chlamydera nuchalis*, in tropical Queensland, Australia.

Topic: Brood parasitism

- PS2.49 **Hallman, T.**; Speckling Pattern Analysis as a Tool for Monitoring Brown-headed Cowbird Population and Parasitic Behavior
PS2.50 **Guigueno, M.**; Sex differences in spatial cognition in Brown-headed Cowbirds (*Molothrus ater*): using touchscreens to test the adaptive specialization hypothesis in a species with sex-role-reversed use of space

Topic: Climate

- PS2.51 **Murphy, S.**; Predicting and managing climate change impacts on semi-aridland wetlands, shorebirds, and their prey
PS2.52 **Feria, T.**; Research on climate change and its influence on bird distributions at the country level: the case of Mexico
PS2.53 **Gates, R.**; The arctic shorebird demographics network: understanding causes of shorebird declines
PS2.54 **Cline, M.**; A Bird's Eye View of Climate Change: Research and Decision-making Skill Instruction in Undergraduate Student Curriculum
PS2.55 **Alexandra, A.**; Population response to climate change: does assortative mating facilitate earlier nesting?

Topic: Community ecology

- PS2.56 **Martinez, A.**; Characterizing assembly rules in Amazonian mixed-species flocks across habitats
PS2.57 **Tauzer, L.**; Ecosystem shift in an Alaskan boreal forest: is there evidence of change in avian communities?
PS2.58 **Blanc, L.**; An experimental test of the Red-cockaded Woodpecker's "keystone" effect on other cavity nesting species.
PS2.59 **Molloy, K.**; Impacts of cattle stocking rates on plant species composition and grassland bird communities in a northern mixed-grass prairie
PS2.60 **DeFisher, L.**; Impact of the Invasive European Fire Ant (*Myrmica rubra*) on the Reproduction of the Herring Gull (*Larus argentatus*) on Appledore Island, Maine.
PS2.61 **Korte, A.**; Avian Species Richness and Abundance Along an Urbanized River Corridor.
PS2.62 **Savoca, M.**; Evidence for a marine tri-trophic interaction: examining 50+ years of diet data in a Southern Ocean seabird assemblage.
PS2.63 **Altamirano, T.A.**; Southern temperate forest cavity-nest web structure: species richness and the role of tree decay in Patagonia, Chile

Topic: Conservation

- PS2.64 **Crook-Hill, J. R.**; Monitoring of a Golden-winged Warbler Restoration Project in Georgia
PS2.65 **Rohrbaugh, R.**; A Range-wide Approach to Stabilizing and Reversing Golden-winged Warbler Population Declines
PS2.66 **Smits, J.**; Final effort to save Canadian populations of Greater Sage Grouse (*Centrocercus urophasianus*): An international, interdisciplinary recovery effort
PS2.67 **Jorgensen, C.**; If you build it will they come?: Managing grassland bird populations in tomorrow's landscapes
PS2.68 **MacKay, A.**; Forty year-old spruce plantations are not ecological surrogates for natural conifer stands for several dead wood associated bird species.
PS2.69 **Green, M.**; Results of Monitoring the American Peregrine Falcon since Delisting in the U.S.
PS2.70 **Yoo, J.**; Effects of shallow gas well development and roads on grassland songbird nest productivity
PS2.71 **Ludlow, S.**; The effects of oil and gas development on grassland songbirds in south-east Alberta

PS2.72 **Walters, L.**; Decline in local bird abundance after construction of NASCAR speedways

PS2.73 **Hohman, W.L.**; Relative value of agricultural wetlands along the gulf coast for accommodating waterbirds displaced by sea-level rise

PS2.74 **Davidson, P.**; Conservation data tools from large-scale citizen science programs

PS2.75 **Suomala, R.**; The Use of Gravel Nest Patches on rooftops as Nesting Substrate for Common Nighthawks (*Chordeiles minor*)

PS2.76 **Moore, J.**; Important Bird Areas of Canada: Protection Status and Stewardship

PS2.77 **Davis, S.**; Impact of an invasive fern on bird diversity in a Jamaican Ramsar site

PS2.78 **Hamel, N.**; What birds can tell us about big projects: using birds as indicators of ecosystem recovery in Puget Sound, WA

PS2.79 **McGowan, C.**; Integrating migratory shorebird conservation needs into an industrial fisheries management plan in the Delaware Bay

PS2.80 **Pavlacky, D.**; Hierarchical occupancy estimation and the conservation of sagebrush-dependent birds at multiple scales

PS2.81 **Geleyzse, D.**; Brown Creeper's Habitat Selectivity between Logged and Unlogged Hardwood Forests of Algonquin Provincial Park, ON

PS2.82 **Hammond, R.**; Effects of Rodent Predation on Nesting Success of Forest Birds on Kaua'i

PS2.83 **Alfonso, C.**; Study and conservation of Black inca (*Coeligena prunellei*) in the high Andes from Cundinamarca, Colombia - Strategies for effective conservation

PS2.84 **Falxa, G.**; Status and Trend of Nesting Habitat for the Marbled Murrelet in the U.S. Pacific Northwest

PS2.85 **Ferrer, Y.**; Assessment of historical changes of the quality and expansion habitat of *Grus canadensis* nesiotiles (Aves: Gruidae) in the Cuban Ciego de Avila northern region province

PS2.86 **Mendez-Aranda, D.**; The use of ecological niche models and alternative species concepts in risk assessment of endemic bird species of the West of Mexico

PS2.87 **Ortiz-Pulido, R.**; Mexican Sheartail (*Doricha eliza*): Is declining one of its populations?

PS2.88 **Lahkar, K.**; Issues currently affecting Gyps vulture populations in Assam, India

PS2.89 **Underwood, T.**; Large number of burdock-entangled songbirds from southeastern Manitoba likely related to foraging activity in fall

PS2.90 **Meads, L.**; Bringing Back the Burrowing Owl to British Columbia: A story of community conservation

Topic: Diseases and parasites

PS2.91 **Annetti, K.**; Avian hemoparasites in Illinois and their effects on health

PS2.92 **Saggesse, M.**; Prevalence of west nile virus antibodies, trichomonas spp. and leucocytozoon spp. on wild nestling birds of prey from southern California

PS2.93 **Shriner, S.A.**; Avian blood parasites and avian conservation in the Marianas

PS2.94 **Morse, J.**; Volatile compounds in Gray Catbird (*Dumetella carolinensis*) uropygial secretion influence attraction of the mosquito *Culex pipiens*

PS2.95 **Ellis, V.**; Health and its Relation to Patterns of Abundance in the Ozarks of southern Missouri

PS2.96 **Salgado-Ortiz, J.**; Prevalence and abundance of blood parasites and its effect on body condition of individuals of the loggerhead shrike (*Lanius ludovicianus*) from Central Mexico

PS2.97 **Van Dellen, A.**; Age-related Immune Function in Pacific Black Brant: Individual Responses to a Bacterial Killing Assay

Topic: Ecological models and survey methods

PS2.98 **Farmer, R.**; Hearing loss and observer senescence in long-term bird survey data

PS2.99 **Miller, M.**; Estimating the effect of eurasian collared-doves on abundance of native doves in South Florida

PS2.100 **Kennedy, K.**; Estimating Hybrid Zone Origins using Ecological Niche Models.

PS2.101 **Squires, K.**; Off-road surveys in the mixedwood boreal forest result in higher quality habitat models than the roadside Breeding Bird Survey

PS2.102 **McAuley, E.**; Using stable isotope analysis to assess harlequin duck productivity

PS2.103 **Simons, T.**; Observer Expectation - an Overlooked Source of Bias in Repeated Count Surveys

PS2.104 **Barker, N.K.S.**; Predicting waterfowl occurrence and distribution: effects of climate and habitat

PS2.105 **Hussey, K.**; Using a long-term dataset to understand regional Black Tern (*Chlidonias niger*) population status and improve monitoring methodologies

PS2.106 **Hockman, E.**; Demonstration and Implementation of Autonomous Aerial Acoustic Recording Systems to Inventory DoD Installation Impact Areas for Threatened, Endangered, and Species at Risk Bird Populations

PS2.107 **Johnson, D.**; Statistics for ornithologists: what's new, what's necessary?

Topic: Ecotoxicology and pollution

PS2.108 **Flahr, L.**; Physiological and Functional Effects of Aroclor 1254 on Avian Cognition and Migratory Behaviour

PS2.109 **Hindmarch, S.**; Investigating the Potential Risk of Secondary Rodenticide Poisoning to Urban Owls Inhabiting and Foraging in Urban Landscapes of the Lower Mainland, British Columbia

PS2.110 **Lane, O.**; Heavy metal exposure in resident birds and neotropical migrants in selected sites in Central America.

PS2.111 **Morrissey, C.**; Agricultural pesticide use and changes in abundance of grassland birds in the Canadian Prairies

Topic: Evolution

PS2.112 **Lamont, Myles**; Defying Allopatry: a comparison of both New and Old World populations of the White-faced Whistling Duck

PS2.113 **Hernandez, N.**; Sexual dimorphism in morphological characters in hummingbirds

PS2.114 **Withrow, J.**; Heteropatric speciation in the Haida Gwaii owl, *Aegolius acadicus brooksi*.

PS2.115 **LaBarbera, K.**; Effects of elevation on Dark-eyed Juncos in the Sierra Nevada

Topic: Foraging

PS2.116 **Richman, S.**; Growing Fast and Dying Young: How Forage Quality Effects Growth and Survival of Canada and Snow Goose Goslings

PS2.117 **Clark, E.**; Influence of Climate, Fruit Availability and Nutritional Content on Bird Selection of Non-native, Invasive (*Frangula alnus*) and Native (*Prunus serotina*) Fruit

PS2.118 **Gómez, L.**; Risk sensitivity during the hummingbird foraging: effects of energy budget, previous experience and nectar temperature

PS2.119 **Sawara, Y.**; Size-selective feeding of the Great Crested Grebe in Japan

PS2.120 **Pias, K.**; Foraging Ecology of Breeding Snail Kites (*Rostrhamus sociabilis plumbeus*) on the Kissimmee Chain of Lakes, Florida

PS2.121 **Pias, K.**; An Artificial Platform to Help Snail Kites Handle an Introduced Prey Species

PS2.122 **Davis, M.**; Temporal and spatial variation in the diet of Glaucous-winged Gulls (*Larus glaucescens*): implications for ecotoxicology monitoring

Topic: General ecology

PS2.123 **Pomfret, J.**; Relationship between historic dietary patterns and population changes in Vaux's swift

PS2.124 **Baumann, M.**; Tracing Deuterium through Birds and Mammals along an Elevational Gradient in the Sangre de Cristo Mountains

PS2.125 **van der hoek, Y.**; Variation in long-term threshold responses to habitat availability

PS2.126 **Davis, G.**; Birds and Wind Power in NJ: The Tasks of a Baseline Study

PS2.127 **Quiroga, M.**; Nectar production of *Salvia iodantha* visited by hummingbirds and nectar robbers *Diglossa baritula* and *Oreothlypis ruficapilla* in the mountains of Manantlán, Jalisco.

PS2.128 **Brush, T.**; Breeding status of Brownsville Common Yellowthroat (*Geothlypis trichas insperata*) in Hidalgo County, Texas

PS2.129 **Thakur, M.L.**; Ecological and social observations on Indian white-backed vulture in himachal pradesh, India

PS2.130 **Nielsen, L.**; Use of mid-water region by resident and transient birds on Great Duck Island: Potential implications for the development of offshore wind power

PS2.131 **Ferrer, Y.**; Factors influencing the distribution and abundance of raptors (Falconiformes) at the Gran Humedal del Norte de Ciego de Ávila region, Cuba

Topic: Habitat relationships

PS2.132 **Dallas, T.**; Habitat use of Red-headed Woodpeckers Breeding in Alternative Habitat Types in Western Illinois

PS2.133 **Cox, J.A.**; Brown-headed Nuthatch occupancy in central Florida and its relationship to environmental gradients, forest structure, and Red-cockaded Woodpeckers

PS2.134 **Monson, C.**; Summary and Results of the Milan Bottoms Bald Eagle Night Roost Survey Project

PS2.135 **LeBeau, C.**; Estimating spatial use by golden eagles near a proposed wind energy development

PS2.136 **Melcer, R.**; Landbird response to fine scale habitat characteristics within riparian forests of the central California coast

PS2.137 **Melcer, R.**; Migration ecology of landbirds at a riparian stopover site on Vancouver Island, B.C.

PS2.138 **Chabot, D.**; Modeling habitat relationships of least bitterns (*Ixobrychus exilis*) breeding in a man-made wetland with novel use of a small unmanned aircraft system

PS2.139 **Krebs, E.**; Can population trends in breeding birds be predicted by local or regional changes in breeding habitat?

PS2.140 **Lopez-Saut, E.**; Characterization of sandhill crane wintering areas through glms in Mexico

PS2.141 **Fitterer, J.**; Predicting Avian Species Richness Using Landscape-Scale Indices in British Columbia, Canada

PS2.142 **Lain, E.J.**; Hurricane disturbance effects on the habitat relations of Nearctic-Neotropical migrants during spring stopover

PS2.143 **Olsen, T.**; Nest composition and interspecific competition for nest site in Anna's and Rufous hummingbirds

- PS2.144 **Lehmicke, A.J.**; Landscape Factors Affecting Density of Clapper Rails and Seaside Sparrows in the Grand Bay National Estuarine Research Reserve
- PS2.145 **Stokosa, S.**; Determining High-Quality Habitats for Avian Species: Age Ratios and Condition of Red-winged Blackbirds on the Islands of Lake Erie
- PS2.146 **Campomizzi, A.J.**; Occupancy modeling of brown-headed cowbird distribution
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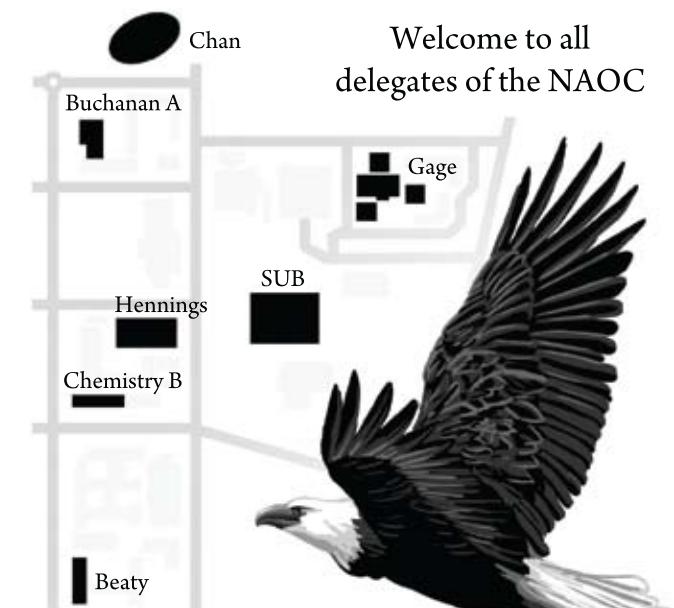
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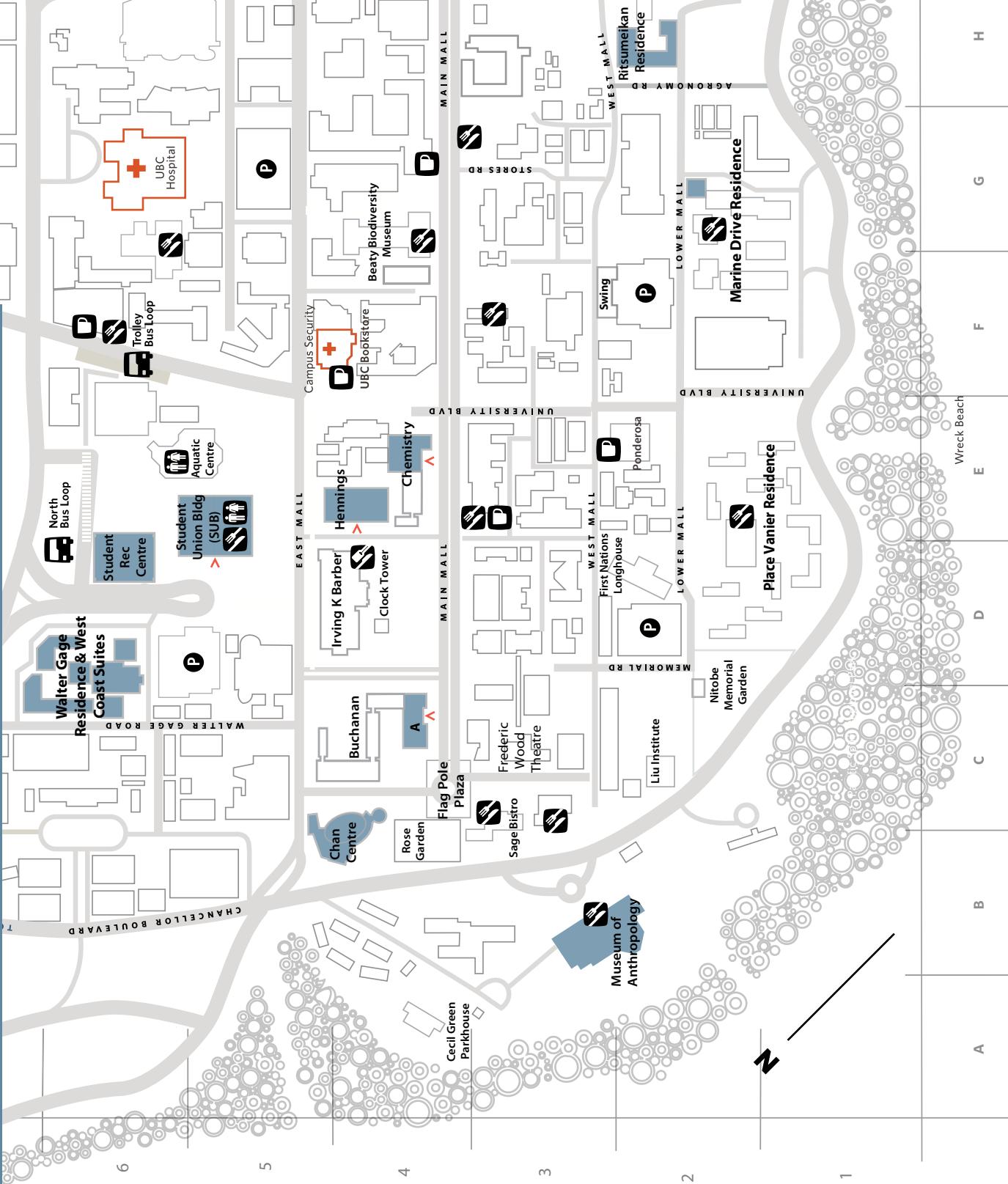
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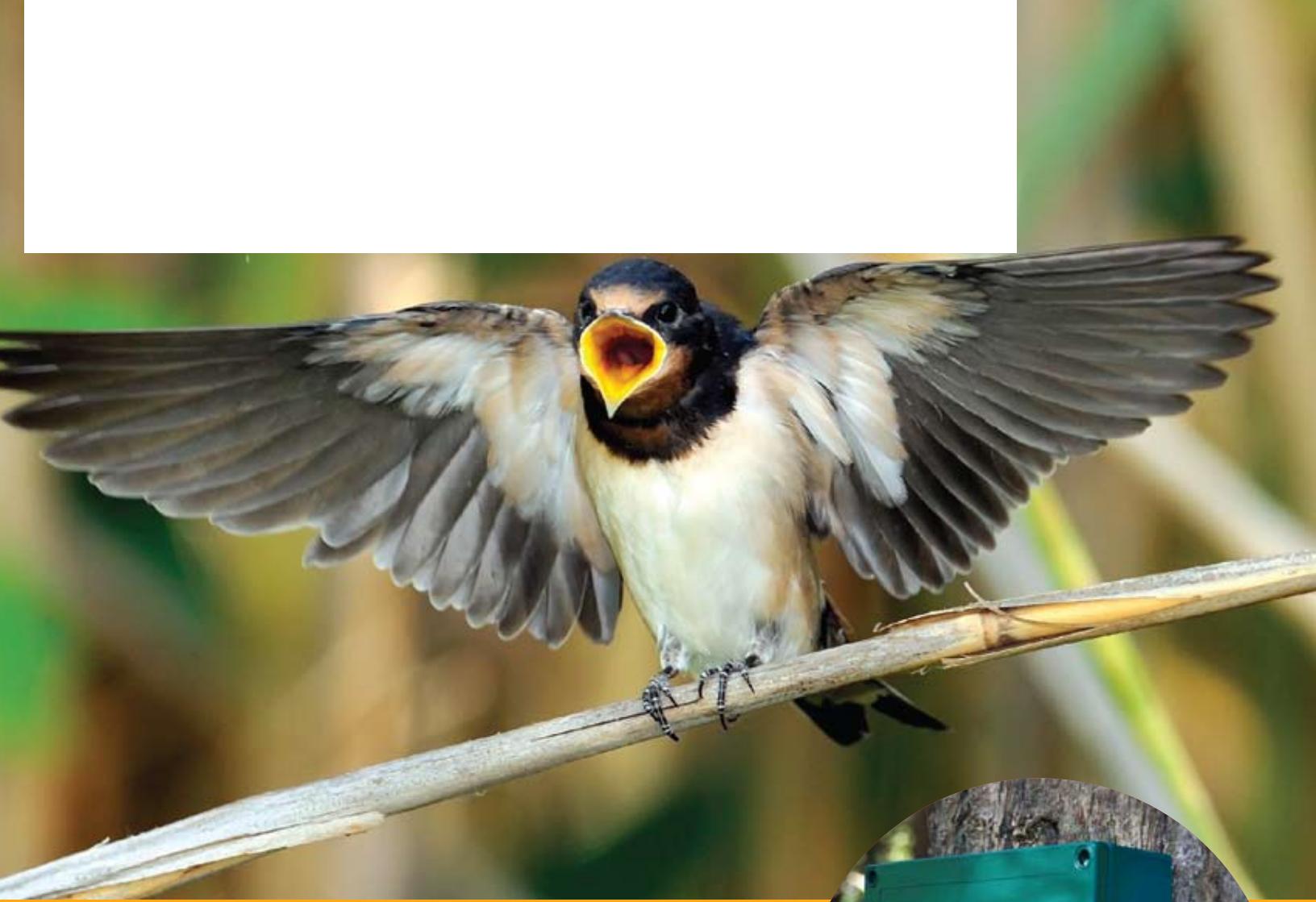
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