



BIRDS AS BRIDGES

2023 Ornithological Conference

LES OISEAUX COMME PASSERELLES

Conférence ornithologique 2023

AOS & SCO-SOC 2023

London, Ontario, Canada

8–12 August 2023

Program Book

<https://meeting.americanornithology.org/>

2023 Joint Conference

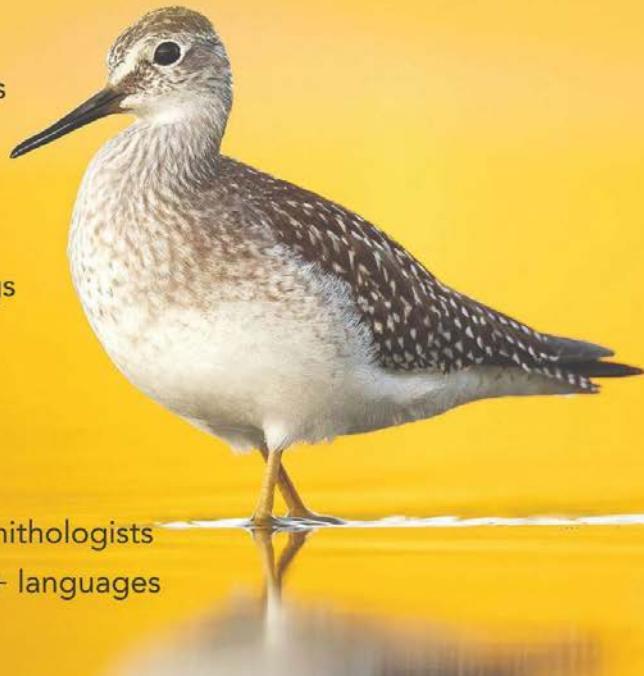
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Table of Contents

Table of Contents	3
Land Acknowledgment	6
Host Societies	7
American Ornithological Society	7
Society of Canadian Ornithologists/Société des ornithologues du Canada (SCO-SOC)	7
Welcome to AOS & SCO-SOC 2023	8
Special Thank You to Our Conference Sponsors	10
Organizers and Committees	11
Meeting Coordination	11
Local Planning	11
Communications	11
BRIDGE	11
Early Professionals	11
Safe Meeting	11
Scientific Program	11
Student Affairs	11
Student Travel & Presentation Awards	12
DEAI Travel Awards	12
Volunteer Coordination	12
Workshops	12
Shorebird Shuffle 5K run/walk	12
AOS Support Staff	12
Volunteers	13
Thank you also to all the judges of student presentations!	13
Venue Information	16
RBC Place London	16
Contact the RBC Place London:	16
Land Acknowledgment	16
Area Map	16
Parking	17
WiFi	17
ATM	17
ADA Compliance	17
Lactation Room	17
Gender-Neutral Restrooms	17
Lost and Found	17

Smoking Policy	17
Emergency Services	18
Local emergency response contact information	18
RBC Floor Maps	19
COVID-19 Health & Safety Guidelines	20
General Information	26
Registration and Information Desk	26
Slack Channels	29
Help Desk	29
Oral Presentation Instructions	29
Poster presentation instructions	30
Exhibitors	31
Restaurants and concessions nearby	32
Meeting Policies & Statements	33
Accessibility Policy	33
Diversity & Inclusion Statement	33
Language Policy	34
Meeting Code of Conduct	34
Expectations of Participants	35
Reporting an Incident	37
AOS & SCO-SOC 2022 Safe Meeting Committee:	37
Social Media & Commenting Policy	40
General Schedule	43
Daily Program At-a-Glance	44
Sunday, 6 August	44
Monday, 7 August	44
Tuesday, 8 August	44
Wednesday, 9 August	47
Thursday, 10 August	50
Friday, 11 August	54
Saturday, 12 August	57
Merchandise	61
Social and Networking Events	62
Daily Events	62
Tuesday, 8 August	63
Wednesday, 9 August	63
Thursday, 10 August	64
Friday, 11 August	65

Saturday, 12 August	66
eBird Competition	67
Rainbow Lorikeets & 2SLGBTQIA+ Events	69
Storytelling Event	70
Keynote Speaker: Gary Pritchard ~Giniw (Golden Eagle)	71
Plenary Speaker: Dr. Bridget Stutchbury	72
Plenary Speaker: Dr. Keith Hobson	73
AOS 2023 Early Professional Award Winner Plenaries	74
AOS 2023 Ned K. Johnson Early Investigator Award winner Dr. Sara Lipshutz	74
AOS 2023 James G. Cooper Early Professional Award winner Dr. Glaucia Del-Rio	75
AOS 2023 Ned K. Johnson Early Investigator Award winner Dr. Carrie Branch	76
SCO–SOC Early Career Research Award Plenaries	77
SCO–SOC Early Career Research Award (ECRA) Winner Dr. Leanne Grieves	77
SCO–SOC Early Career Research Award (ECRA) Winner Dr. Emily Choy	78
AOS Senior Professional Awards	79
Service Awards	81
Conservation Awards	82
Publication Awards	85
SCO–SOC 2023 Award Winners	88
Travel Awards	89
Caregiver Grant Awards	91
Roundtable discussions	92
Workshops and Training Opportunities	97
Symposia	104
Scientific Program Schedule	113
Posters	141

Land Acknowledgment

We acknowledge that our meeting will be taking place on the traditional territories of the Anishinaabek, Haudenosaunee, Lūnaapéewak, and Chonnonton Nations, on lands connected with the London Township and Sombra Treaties of 1796 and the Dish with One Spoon Covenant Wampum. This land continues to be home to diverse Indigenous Peoples (First Nations, Métis, and Inuit) whom we recognize as contemporary stewards of the land. We provide this land acknowledgment as one step towards reconciliation and to reflect our desire for increased interactions and dialogue between the ornithological community and Indigenous peoples throughout the Americas.

Host Societies



American Ornithological Society

The American Ornithological Society (AOS) is an international society devoted to advancing the scientific understanding of birds, enriching ornithology as a profession, and promoting a rigorous scientific basis for the conservation of birds. As the largest ornithological

member-based society in the world, AOS produces scientific publications of the highest quality, hosts intellectually engaging professional meetings, serves ornithologists at every career stage, and informs public policy on issues important to ornithology and ornithological collections. The AOS is distinguished by its tremendous collective expertise, including eminent scientists, conservation practitioners, early career innovators, and students.

AOS publishes two international journals—*Ornithology* and *Ornithological Applications*. The Society's Checklists are the official source for taxonomy and nomenclature for North and South American birds. The AOS is also a partner in the online publication of Birds of the World with the Cornell Lab of Ornithology.



Society of Canadian Ornithologists Société des ornithologues du Canada

Society of Canadian Ornithologists/Société des ornithologues du Canada (SCO-SOC)

The Society of Canadian Ornithologists, or Société des

ornithologues du Canada, is an ornithological non-profit organization serving Canada's ornithological community.

Founded in 1983, the goals of the Society are to encourage and support research towards the understanding and conservation of birds that spend all or some of their life cycle in Canada, serve as a professional society for both amateur and professional ornithologists, represent Canadian ornithologists within professional ornithological societies, publish information about avian ecology and conservation, and recognise excellence in research, conservation and mentorship in the Canadian ornithological community.

The Society produces the journal *Avian Conservation and Ecology* (French: *Écologie et Conservation des Oiseaux*), which is published jointly with Birds Canada, as well as a newsletter, *Picoides*.

Welcome to AOS & SCO-SOC 2023

Please join us for the AOS & SCO-SOC 2023 Meeting!

We are very excited to announce that the American Ornithological Society (AOS) is hosting a joint conference with the Society of Canadian Ornithologists/Société des ornithologues du Canada (SCO-SOC) in London, Ontario, Canada from 8–12 August 2023. This will be the 141st annual meeting of AOS and the 40th annual meeting of the SCO-SOC. We also have local support of ornithologists from a number of universities and agencies in the southwestern Ontario region. This collaboration provides new opportunities for our organizations, and for conference attendees to build new partnerships for research, conservation, and education.

Together, we are preparing an exciting program with keynote speakers, plenaries, symposia, workshops, training opportunities, and an extensive field trip program with opportunities to view a diverse local avifauna along the north shore of Lake Erie and the western shore of Lake Huron.

We are committed to building a stronger and more welcoming community within ornithology for researchers, students, educators, and birders from different backgrounds. Our conference theme, “Birds as Bridges,” reflects our connectivity. The primary languages for this conference are English and French. However, we are providing links to translation services for non-English speakers. We welcome our valued members from across the Americas and around the world and will make components of the meeting more inclusive and accessible across several languages. Please let us know your language and accessibility needs by sending a message to: meeting@americanornithology.org and we will make every attempt to accommodate these requests.

The meeting will be held at RBC Place London, a conference center in downtown London, with adjacent hotels and nearby dining, entertainment, and recreational trails. London is located halfway between Toronto and Detroit, and has an international airport with connections from Toronto, as well as rail and shuttle service from the Toronto airport. See our Transportation page for information.

For this meeting we will continue to follow COVID safety guidelines and requirements, reassuring all of us of a safe travel and conference experience. We will make every effort to keep travel information up to date regarding COVID testing, vaccination, and masking requirements in response to the global COVID-19 pandemic. Please refer to these Government of Canada-Gouvernement du Canada guidelines for the most up to date information pertaining to testing, mandates, and overall guidelines. Please note: Domestic and international travel requirements may differ. See our COVID-19 resource page for more information.

We look forward to seeing you in London, Ontario!

Co-Chairs of the AOS & SCO–SOC 2023 Meeting Coordination Committee

Patricia Heglund, Ph.D. Retired, U.S. Fish and Wildlife Service

Gregory Mitchell, Ph.D. Environment and Climate Change Canada and Carleton University

Scott MacDougall-Shackleton, Ph.D. Department of Psychology, Western University

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Gregory Mitchell
(Co-chair)
Scott
MacDougall-Shackleton
(Local Chair)
Lauren Novi
Katie Kulp
Emily Cohen
Erica Nol
Stephen J. Dinsmore
Colleen Handel
Jude Scarl
Mint Jang
Chris Mulvaney
Christine Handel
Schmidt
Crystal Ruiz
Sara Morris
Erin Morrison
Zachary Holmes
Nicole Michel
Hannah Tench
Nandadevi
Cortes-Rodriguez
Danielle Ethier
Jen Walsh-Emond
Sahas Barve
Jared Elmore
Jenn Houtz
Lan-Nhi Phung
Sarah Gutowsky
Evan Adams
Ann McKellar
Maggie MacPherson

Local Planning

Scott
MacDougall-Shackleton
(Chair)
Chris Guglielmo
Carrie Branch
Brendon Samuels
Stuart Mackenzie
Andrew Beauchamp
Stacey Jaczko

Communications

Christine Handel
Schmidt

BRIDGE

Nicole Michel (Co-chair)
Hannah Tench
(Co-chair)
Ashwin Sivakuma
Lan-Nhi Phung
Camila Triana

Early Professionals

Nandadevi
Cortes-Rodriguez
(Co-chair)
Danielle Ethier
(Co-chair)
Nicholas Mason
Nicole Richardson
Steffi LaZerte
Jared Elmore
Natalie V. Sánchez
Emily Williams
Erin Grabarczyk
Joseph Tricarico

Safe Meeting

Jen Walsh (Chair)
Jennifer Houtz

Lionel Leston
Shae Turner
Judith Scarl (Ex officio)
Christine Schmidt (Ex officio)

Scientific Program

Emily Cohen (Co-chair)
Stephen J. Dinsmore
(Co-chair)
Erica Nol (Co-chair)
Evan Adams
Ray Danner
Devin de Zwaan
Sarah Jamieson
Nicole Richardson
Yolanda Morbey
Joely DeSimone
Robert Montgomerie
Judith Priam
Santiago Claramunt
James Kennerley
Jen Walsh
Ashwin Sivakumar
Maggie MacPherson
James Mouton
Cory Elowe
Callie Stanley
Ben Vernasco

Student Affairs

Jennifer Houtz
(Co-chair)
Lan-Nhi Phung
(Co-chair)
Sarah Gutowsky
(Co-chair)
Kristen Rosamond
Olivia Wang
Tharindu Krishan
Kalukapuge
Rachel Darling

Student Travel & Presentation Awards

Jen Walsh (Co-chair)
Evan Adams (Co-chair)
Ann McKellar (Co-chair)
Sarah Saunders

DEAI Travel Awards

Sahas Barve
Dai Shizuka

Volunteer Coordination

Zachary Holmes
(Co-chair)
Kirsty Gurney (Co-chair)

Workshops

Evan Adams (Advisor)
Jared Elmore (Chair)
Bob Montgomerie
Devin de Zwaan

Shorebird Shuffle 5K run/walk

Maggie MacPherson
(Chair)
Scott
MacDougall-Shackleton

AOS Support Staff

Judith Scarl
Crystal Ruiz
Chris Mulvaney
Christine Handel
Schmidt
Lauren Novi
Mint Jang
Katie Kulp (Contractor)

Volunteers

The conference would not be possible without the dedication and effort of our team of student and early professional volunteers. In exchange for a discounted registration rate and/or for receiving a travel award, many volunteers donated time to support the conference. Tasks began in April 2023 and included translating conference communication materials into French and Spanish, providing technical support for conference sessions, assisting with the program and abstract books, helping at the registration desk, and assisting with the Shorebird Shuffle 5K.

Arianna Mancini	Maria Castaño	Jelany Duali
Angeles Raymundo	Jillian Fisher	Esther Morales-Veg
Sanchez	Yi-Chin (Sunny) Tseng	Soren Coulson
Oona Takano	Rozy Bathrick	Abigail Kimmitt
Catie Ivy	Megan Massa	Kyana Montoya
Kaiya Provost	Joey Curti	Jim Goetz
Emily Griffith	Olivia Smith	Vianney Cupiche
Pearl Rivers	Christian Christian	Herrera
Maria Cecilia Estalles	Fanny Riand	Timothy Forrester
Maddie Ybarra	Vinita Karki	Sonja Brandt
Sidarth Srinivasan	Ana Melisa Fernandes	Emily Donahue
Wendy Dorman	Sarah Beres	Jenna Brewer
Rachel Darling	Olivia Maillet	Thilini Maddegamgoda
Shugi Ren	Fang-Yu (Betty) Shen	Lekamiage
Christian Cortez	Estefania Isabel Muñoz	Corrine Genier
Sarah Deckel	Salas	Sophia Wolfe
Elizabeth Rogers	Jessica Espinosa	Maritere Reinoso Perez
Biya Han	Olivia Wilson	Logan McLeod
Elizabeth Meisman	Katherine Marthens	Tori Blakely
Brett Hodinka	Kristen Hobbs	Nora Lee
Patricia Rokitnicki	Cindy Barreto	
Zoe Korpi	Stefanny Villagomez	

Thank you also to all the judges of student presentations!

Medhavi Ambardar	Carrie Branch	Gemma Clucas
Nancy Chen	Justin Schuetz	Elsie Shogren
Kristen Malone	Chris Elphick	T. J. Zenal
Leonardo Campagna	Benjamin Van Doren	Garth Spellman
Tim Hain	Todd Arnold	Medhavi Ambardar
Deborah Beutler	Melissa Bowlin	Matt Reudink
John Eadie	Rachel Buxton	Oscar Johnson
Sara Lipshutz	Richard Feldman	Nicole Michel
Abby Kimmitt	Sarah Gutowsky	Catherine Ivy

Ann McKellar
Andrew Campomizzi
Kaiya Provost
Kirsty Gurney
Jake Straub
Nathan Senner
Jennifer Mortensen
Chantel Michelson
Jessie Williamson
Kelly Williams
Chris Guglielmo
Adriaan Dokter
Kristen Covino
Shailee Shah
Victoria Dreitz

Nancy Chen
Jennifer Grindstaff
Marcella Baiz
Shanelle Thevarajah
Devin de Zwaan
Jay Mager
Alejandro
Ríos-Franceschi
Cody Kent
Weston Perrine
Susan Willson
Anna Pidgeon
Maggie MacPherson
Andrew Stillman

Beth MacDougall-
Shackleton
Jen Owen
Haley Kenyon
John Fitzpatrick
Barbara Frei
Allison Johnson
Kyle Horton
Tosha Kelly
Junior Tremblay
Jim Bednarz
Catherine Dale
Adam C. Smith
David Toews
Pauline Bloom



Together, we are
Canada's voice for birds

Ensemble, nous sommes
la voix des oiseaux au Canada

BIRDSCANADA.ORG

Venue Information

RBC Place London

RBC Place London offers 70,000 square feet of beautiful, modern, and fully accessible meeting and exhibition space. The convention center is centrally located in downtown London, offering a wide variety of restaurants and shopping within minutes. RBC Place London is connected to the DoubleTree via skyway.

RBC Place London address:

300 YORK STREET
LONDON ONTARIO N6B 1P8 CANADA

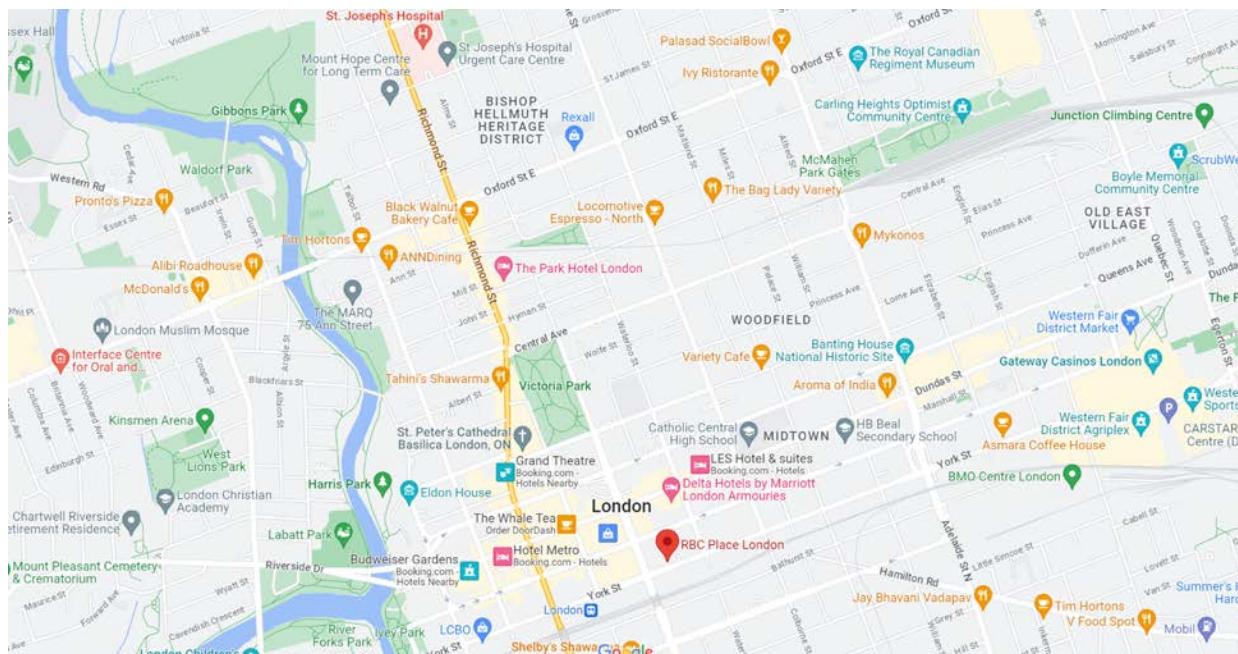
Contact the RBC Place London:

Local Phone Number: 519-661-6200
Toll-free Phone Number: 1-800-203-1992
Fax Number: 519-661-5990
Email: info@londoncc.com

Land Acknowledgment

RBC Place London is located on the traditional territory of the Anishinaabek, Haudenosaunee, Huron-Wendt, Attawandaron and Lenape Indigenous peoples. This territory is covered by the Upper Canada Treaties, including Treaty 6, the London Township Treaty. (Source: RBC Place London website.)

Area Map



Parking

Daily parking options are available in an underground parking lot, accessible from York St. The lot entrance is just east of the building's south entrance. It has 305 parking spots and features EV charging stations as well as bicycle parking. The daily flat rate for parking (including HST) is \$10.00 (CAD). Call 519-661-6200 for more information. Nearby parking is also available.

WiFi

Free WiFi will be available to conference attendees in the common areas and lobbies. More information will be provided at the conference.

ATM

For your convenience, RBC Place has one ATM on each floor of the conference center.

ADA Compliance

RBC Place London is a fully accessible facility. Principal entrances are at grade and at level, providing easy access for those with limited mobility. The facility offers automatic doors and a large drop-off area in front, combined with wide, well-lighted corridors. All doors provide more than the minimum clearance. Elevators provide access to every floor.

Bathroom, room, and wayfinding signs have large, raised print as well as Braille available for individuals with visual impairments. Main floor salon areas are equipped with a digital hearing assistance system, which allows individuals with digital hearing aids to wirelessly connect to the audio system in the room.

Lactation Room

A lactation room will be available for nursing mothers. The location of this room will be available soon.

Gender-Neutral Restrooms

Gender-neutral, ACA-compliant restrooms will be available at the conference. Details will be available soon.

Lost and Found

Lost and Found is located at the Front Desk.

Smoking Policy

The RBC Place London is a smoke-free building; no smoking of any kind is permitted in the building.

Emergency Services

See the map on our website to locate nearby hospitals, pharmacies, and health and COVID-testing centers.

Local emergency response contact information

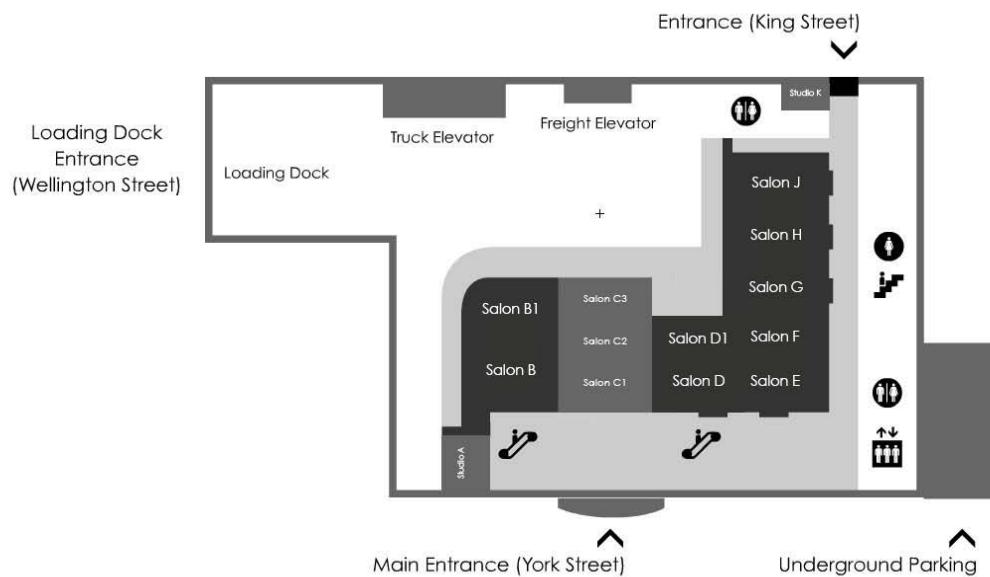
To reach Emergency Services, Ambulance, Fire Department, or Police: Dial 911.

Automated External Defibrillators (AED) are located on the RBC Place loading dock (on the first floor) and second floor service corridor (on second floor) next to the first aid kits.

RBC Floor Maps

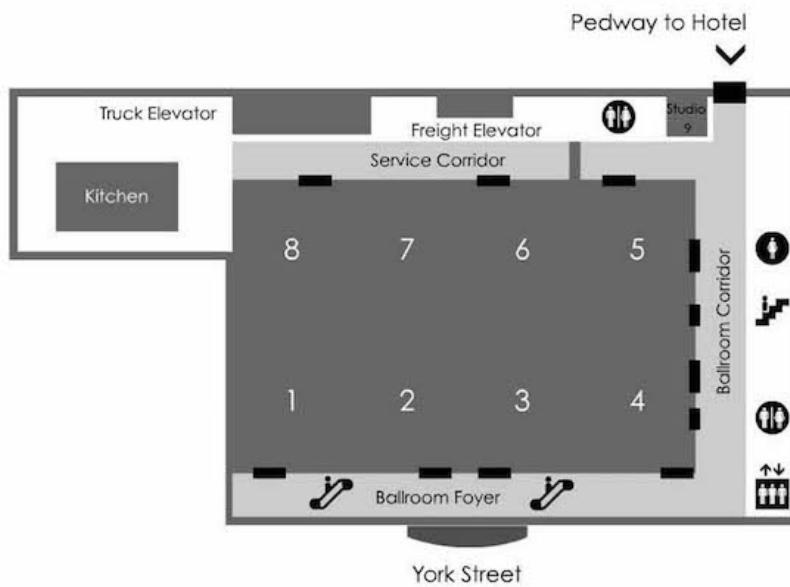
Main Floor [Level 1]

main floor



Second Floor (Level 2)

second floor



COVID-19 Health & Safety Guidelines

Summary At-A-Glance

- Participants are asked to wear masks when attending presentations, roundtables, and workshops.
- Masking is strongly encouraged throughout other parts of the AOS & SCO-SOC 2023 conference whenever possible.
- We recognize that participants will need to remove masks while eating and drinking, and we recognize that participants may wish to remove masks during social or networking events to facilitate communication.
- Our masking and safety policies balance health concerns with other accessibility considerations at our meeting. We aim to keep this conference judgment-free and mask-friendly.
- AOS & SCO-SOC 2023 have robust health measures in place during the conference week, and our conference venue is an approved Safe Travels Venue, receiving a Safe Travels Stamp as recognition for their robust health and safety measures.
- AOS & SCO-SOC 2023 relies on public health officials and their guidance to develop COVID safety protocols, and we may amend these policies in response to changing public health guidance.
- Attendees testing positive for COVID or undergoing isolation periods that coincide with the meeting dates should not attend the AOS & SCO-SOC 2023 conference.

Message to Participants

Over the last three years, the public health situation related to COVID-19 has evolved considerably, as we learn more about the SARS-CoV-2 virus and how it spreads, as scientists develop vaccines and treatments, as we better understand the potential effects of infection, and as mutations in the virus and building immunity in individuals affect the level of risk.

We take the health and welfare of our conference participants and the public very seriously, and we have a number of measures in place to make the meeting as safe as possible, which are discussed in detail in our General COVID-19 Recommendations and Policies below.

After careful consideration, and to minimize the risk of infection during the conference, we strongly encourage proper masking in all indoor environments as much as possible. We request that attendees wear masks during talks, roundtables, and workshops, if they are able to do so. This will help keep our community safe while in close quarters in situations where communication among conference attendees is limited. Daily COVID testing during the conference is similarly encouraged. We also recognize that conference attendees may want to remove or lower masks in social settings or during the poster sessions to enhance communication, and as a necessity, while eating or drinking indoors.

The organizing committee recognizes that there are many valid reasons for both wearing and not wearing a mask, driven by our collective desire to ensure equity for all members of our diverse community. For example, we understand that masks lessen infection risk but also recognize that they can impair communication, may result in stress, or for medical or other reasons cannot be worn by segments of our population. Importantly, we want our conference to be a judgment-free and mask-friendly space. When considering when to wear a mask at the conference, we ask everyone to consider the needs of other members of our diverse community as well as their own.

AOS and SCO-SOC leadership supports the guidance of medical researchers and public health professionals and we will continue to monitor their recommendations. As we get closer to our meeting, we may adjust our conference policies based on their guidance. We will also make every effort to keep travel information up to date regarding testing, vaccination, and masking requirements in response to the current global COVID-19 infection rate. Domestic and international travel requirements may differ.

We recognize that with this effort to strike a balance among individuals' differing needs and considerations for meeting accessibility, some members will not feel comfortable attending the meeting and for that we are truly sorry. Across the ornithological community, different meetings have established different expectations for masking, testing, and vaccination, offering colleagues multiple options for conference attendance that will allow everyone to share their science, learn, and network under conditions that best serve their particular situation.

We hope to see you in London, Ontario, this August. Thank you for helping to keep our meeting safe and accessible for our diverse community.

General COVID-19 Recommendations and Policies

The AOS & SCO-SOC 2023 leadership committee strongly encourages the use of masks and for attendees to be up-to-date on their vaccines.

The AOS & SCO-SOC 2023 Conference will be following public health guidelines regarding masking. Please check in frequently on this website and for notifications via email and social media (by following the conference hashtag #AOS_SCO23), as masking requirements may change depending on COVID dynamics closer to the time of the conference.

The local Middlesex-London Health Unit strongly recommends that everyone is vaccinated to protect against severe illness due to the COVID-19 virus. They also advise people to continue to wear a mask when in crowded indoor environments, to frequently wash hands with soap and water, and to stay home if you are not feeling well.

To ensure the safety of all AOS & SCO-SOC 2023 participants and the public, we ask that all conference registrants and attendees review and adhere to the local Middlesex-London Health Unit recommendations and to the current travel guidelines provided by the Government of Canada/Gouvernement du Canada, including that

attendees observe the required self-isolation period in case of a documented positive test for COVID-19.

See our Venue information page for a map of local COVID testing centers; hospitals and health centers; and pharmacies.

Detailed COVID-19 Policies and Mitigation Strategies

The policies outlined in this document are for the 2023 conference and are subject to change as new information becomes available. Please check in frequently on this website and for notifications via email and social media (by following the conference hashtag #AOS_SCO23) to stay apprised of changes as they are made.

COVID-19 continues to circulate broadly in the United States and Canada. Current epidemiological information for Ontario can be found using this data tool from Public Health Ontario/Santé publique Ontario. We will continue to monitor local public health authority announcements in the weeks leading up to the conference.

Please consider your personal risk from COVID-19 and take steps to protect yourself. We also ask all those who are able to help keep one another as safe as possible by following recommended public-health guidelines, including:

- Staying up-to-date on your COVID-19 vaccines
- Wearing tight-fitting, well-constructed masks while indoors and in crowded spaces
- Washing your hands often
- Covering your mouth when you cough or sneeze
- Using social distancing when possible
- Screening daily for signs of illness and staying home if you are sick or feel unwell

Self-Check

If at any time during the meeting you feel unwell or experience one or more symptoms of a cold or flu, please confine yourself to your room, do a self-assessment, and test for COVID-19 if indicated. Please plan to bring rapid antigen COVID tests with you to the conference. We will have a limited supply of rapid antigen COVID tests available at the registration desk. See our Venue information page for a map of local COVID testing centers; hospitals and health centers; and pharmacies. Attendees should observe the current COVID-19 travel guidelines for determining the required self-isolation period in case of a documented positive test for COVID-19.

Masking

We strongly recommend masking while indoors, except for brief periods when eating and drinking. We request that conference participants wear a mask when attending talks, roundtables, or workshops, if they are able. Conference attendees should be aware that some roundtable discussions are offering boxed lunches for consumption during the lunch session, and so these events may have a larger number of unmasked attendees. Presenters of oral talks, workshop instructors, and panelists at roundtable

discussions will be socially distanced from others and may choose to remove their masks during their presentations.

We are currently trying to acquire masks for all conference attendees, and we are seeking to make available a large number of COVID testing kits at the conference registration desk. Whereas masks provide the best protection when all parties are wearing masks over the nose and mouth, we recognize that face masks can impair communication for some participants and result in both physical and mental distress for others. We are trying to secure windowed masks to help improve accessibility for communications for some participants, but again recognize that windowed masks may also present challenges. We ask that everyone respect others' decisions about when to wear a mask. Please also consider bringing your own N95, C95, or KN95 masks based on your experience with the mask that best fits you.

Additional Mitigation Considerations

Our venue has a SAFE TRAVELS STAMP.

RBC Place London is an approved Safe Travels Venue. The SafeTravels Stamp is an international symbol designed to allow travelers to recognize governments and companies around the world that have adopted standardized health and hygiene protocols so consumers can experience 'Safe Travels' (#SafeTravels: Global Protocols & Stamp for the New Normal | World Travel & Tourism Council (WTTC) and Global Protocols for the New Normal – Convention Centres, Meetings & Events.indd (wttc.org)).

Some of the mitigation measures provided by the RBC Place London conference center include an air circulation system that supplies a mix of fresh and recycled air and is equipped with both standard pleated filters and AP-Thirteen HVAC filters, which remove sub-micron particles. The center also employs an escalator handrail sterilization system that uses UV-C light to remove germs. Alcohol-based hand sanitizer stations will be available to participants throughout the venue, including nearby all food and beverage service areas. Crews will regularly clean all areas of the venue using disinfecting products approved by health authorities. Employees at RBC Place London follow the directives set out by the Middlesex London Health Unit (MLHU) based on the latest health and safety guidelines. RBC Place London is also committed to being in frequent contact with the Leadership Committee regarding infection control, physical distancing, interactions with guests and enhanced hygiene measures, including hand washing and the use of gloves as required. RBC Place London has also introduced an app for the purchase of beverage tickets at events. Using Fastrac, a contactless ticketing platform, event attendees will be able to easily purchase food and beverage tickets without waiting in line at concessions and bars.

To reduce the risk of COVID-19 transmission further, we will also employ the following safety protocols:

- Speaker podiums will be at least 1.5 meters from front row seating and panelists will be spaced 2 meters apart from each other, whenever possible.

- Seating at workshops will be spaced 2 meters apart, wherever possible.
- Presentation sessions will be held in rooms with the greatest capacity possible so that individuals can seat themselves at their desired spacing. We ask attendees not to pack into the backs of rooms or along the side walls.
- Poster sessions will be placed in a large ballroom and a minimum of 2.4 meters spacing will be provided between rows. We will also space poster boards 1.75 meters apart.
- The King Street Patio, which is part of RBC Place, is due to be renovated by July 2023 and should provide some outdoor meeting and eating space at the venue.
- Signs will be placed in the conference center reminding participants to mask.
- Daily announcements will include reminders to mask when indoors.
- Face masks will be available at the registration desk.
- We encourage attendees to bring their own supply of rapid antigen tests for self-testing, but a limited supply of test kits will be available at the conference registration desk.

If You Become Ill

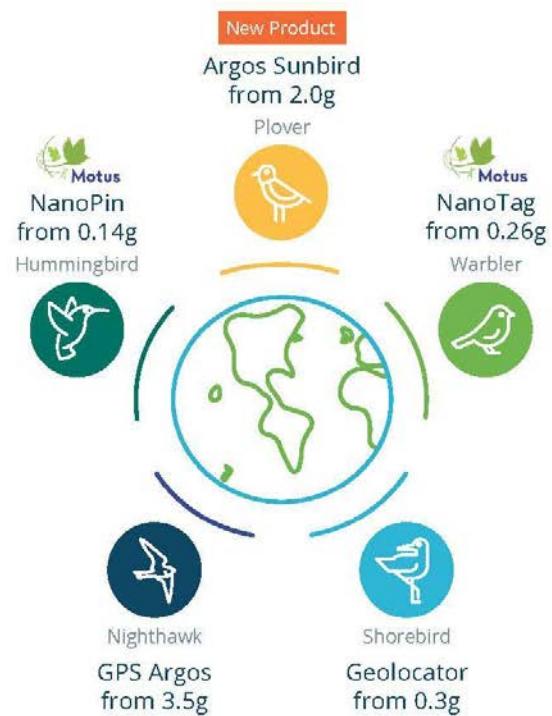
In most cases, conference registration fees are non-refundable after 30 June at 11:59 p.m. ET. AOS & SCO–SOC 2023 will refund an individual's registration fee, minus a \$75 administrative cancellation fee, up to the day before the conference if that individual tests positive for COVID immediately before the meeting and the conference dates overlap with the individual's isolation period as advised by federal public health officials in the U.S. and Canada. In this situation, we ask that the participant fill out the meeting cancellation request form. Documentation can be sent to meeting@americanornithology.org. Please allow up to two (2) weeks for your cancellation request to be processed.

AOS & SCO–SOC 2023 will not issue refunds for individuals who experience illness during the conference and who, as a result, must miss all or part of the meeting. We encourage attendees to obtain travel insurance to attend the AOS & SCO–SOC 2023 to recoup some expenses in the event of illness.



Lotek
advancing wildlife science

+1 905 836 6680
info@lotek.com
www.lotek.com



 **Audubon**

***The National Audubon Society
protects birds and the places
they need today and tomorrow.***

Audubon's Migratory Bird Initiative uses the best available migration science to protect birds and the places they need across their full annual life cycles. Visit audubon.org/migration

From Canada to Latin America, Audubon Americas protects birds and the places they need throughout the hemisphere. Visit audubon.org/americas

Canada Warbler. Photo: Dale Bonk/Audubon Photography Awards

General Information

Registration and Information Desk

Registration will be located in the Main Entrance lobby [1st floor] of the RBC Place and will be open 12:00-4:30 pm (Tuesday) and 7:30–4:30 (Wednesday–Thursday) and 8:00–12:00 (Friday).

Registration Fee & Name Badge

2023 Registration Rates

Member Type (Rates are in USD)	Early: by 31 May ^(a)	Regular: by 30 June ^(c)	Late: after 30 June ^(d)
Professional Member	525	625	725
Professional Non-Member	625	725	825
Early Professional/Emeritus/Retiree Member	435	535	635
Early Professional/Emeritus/Retiree Non-Member ^(b)	490	590	690
Student/Postdoc Member	310	360	435
Student/Postdoc Non-Member	340	390	465
Special Countries Professional Member	400	500	600
Special Countries Professional Non-Member	435	535	635
Special Countries Early Professional Member ^(b)	310	360	435
Special Countries Early Professional Non-Member ^(b)	345	395	470
Special Countries Student/Postdoc Member	210	260	335
Special Countries Student/Postdoc Non-Member	240	290	365
One Day	200	200	200
Companion/Guest	200	200	200
Press	0	0	0

^(a) All rates are in US\$. Rates for members apply to anyone who is a current member of the American Ornithological Society (AOS) or Society of Canadian Ornithologists/Société des ornithologistes du Canada (SCO–SOC). Non-members are encouraged to apply for membership in the society of their choice before registering for the conference to qualify for member rates. Note that AOS membership is required to receive an AOS travel award.

^(b) Early Professional rates are for those who have completed their terminal degree within the past five years.

^(c) Regular Registration rates apply from 1 June until 11:59 p.m. (ET) on 30 June.

^(d) Late Registration rates apply 1 July through the end of our conference.

* TERMS & CONDITIONS

Please read the AOS & SCO-SOC 2023 Meeting Terms & Conditions before registering for the conference. Note: If you are not an AOS member or you do not have an account in the AOS Membership Portal, you will need to create an account before you register for the meeting.

Name Tags

You may pick up your name badge at the registration desk Tuesday afternoon through Saturday morning.

Message Board

We encourage you to sign on to our meeting application for ease of communication among conference attendees. Alternatively, there is a poster board set up near the registration desk where you can post notices.

Coffee Breaks

There are two coffee breaks scheduled from Wednesday through Saturday from 10:00–10:30am and 3:00–3:30pm.

Meeting App

Maximize your time at the event with the AOS & SCO-SOC 2023 mobile app. Easily view the Schedule, Speakers, Instant Alerts and more! You can even create personalized lists to target what you want to see, hear & do.

App Download Instructions:

For iPhone and Android users - To download the AOS 2023 app visit www.tripbuildermedia.com/apps/aos2023. This link will automatically detect your phone type and take you to the right place to download the app on the Apple App Store or Google Play Store.

iPad Users – Go directly to the Apple App Store and search “AOS & SCO-SOC 2023” to find and download the native app.

To Search via keywords:

Apple users (iPhone, iTouch, iPad) users – Go to the Apple App Store and search “AOS & SCO-SOC 2023” to find and download the app.

Android users – Go to the Google Play Store and search “AOS & SCO-SOC 2023” to

find and download the app.

All other web-enabled devices (including computers) – type the following link into your browser (www.tripbuildermedia.com/apps-aos2023) and it will take you to the HTML5 web version of the app.

Logging into the App:

When you first open the app, on the app login screen click the Reset Password link. Enter in your email address in which you've registered for the event with and this will send you an email that contains the link to set your password.

Once you have set your password, please navigate back to the login screen of the mobile app and enter in your email address as your username and the password you've recently set.

Get to Know the App:

When you first log into the app you'll be greeted by the guided tour. Click through the different slides for helpful tips & information about navigating the app. You can access this guided tour at any time by clicking the ? on the home screen of the app.

Personalizing Your Experience:

Create your personalized lists (such as your MySchedule or your MyContacts list) by clicking on the empty circle for each specific entry so a check mark appears for that entry (if an entry has a check mark on it that means it has been added to your MyEvent). To then access your personalized lists, click the MyEvent icon from the home screen of the app.

Exporting MyEvent Lists:

Once you've created your personalized lists, to export these lists to your email, click the MyEvent icon from the home screen. Once you are within the MyEvent you will see a listing of your different personalized lists. Select the "Export" button located in the top right corner of the screen. Next check off which list(s) you would like to export, enter in your email address and push send. This will send you your personal lists from within the app in an exported Excel file.

Attendee Networking:

Easily Connect with fellow attendees via the Let's Meet button on the attendee list. This will enable you to send an initial email through the app to the intended recipient. The recipient can then choose to respond back to you directly via email. Email addresses are protected on the app until you choose to share it with a fellow attendee. Sort the attendee list alphabetically by Name or by Company to easily find who you're looking for.

Navigating the Schedule:

The schedule is sorted by date and then time within the day. Click the All toggle to see

all sessions for the selected day. While at the event, click the Now toggle to see all sessions happening at that specific date and time. Click the magnifying glass to search the schedule by keywords to find applicable sessions. Click the funnel icon to filter the schedule by specific filter categories. Click into any session to see more information and details about the session along with information about the session's presenters.

Be Social:

Interact with fellow attendees by posting comments and questions on the Social Feed to connect with fellow attendees about topics of interest.

Get the Latest App Information:

When there are new updates or information in the app, a red “Sync” badge will appear on the main menu of the app in the top toolbar. Click the sync icon to sync your app to get the latest updates.

**Internet or cellular data connection is required to sync the app.*

Slack Channels

Connect with other meeting attendees through our AOS & SCO-SOC 2023 Slack, which offers a way for members of our conference to communicate with each other outside of email or social media, either via direct message or topic-driven threads. You can also use this platform to view announcements or ask for help with technological issues. Join the conference Slack with the link provided in your welcome email.

https://join.slack.com/t-aos-scosoc2023/shared_invite/zt-1qlpxrfa-7vWvzPyNRIHguuvTDck_WA

Help Desk

For questions or concerns about the conference, please inquire at the registration desk. Alternatively, if you have a question? Contact us at meeting@americanornithology.org. Alternatively, post to the #help_questions channel on Slack and a member of our team will be with you shortly!

Oral Presentation Instructions

Information about preparing your presentation:

Please limit your presentation to a maximum of 12 minutes to allow 2 minutes for questions and a 1-minute transition between speakers. Presentation files will be accepted in PowerPoint and PDF with a 16:9 widescreen aspect ratio. To set up this aspect ratio in PowerPoint, click on the ‘Design’ tab in the ribbon menu at the top of the screen and under the ‘Slide Size’ option select ‘Widescreen (16:9)’ from the dropdown menu. We encourage the use of English for your slides; however, if presentations are in a language other than English, bilingual slides are strongly encouraged. Note that we will not have translation services at the meeting for oral presentations and cannot guarantee that the Q&A for oral presentations will be available in languages other than English.

Information about submitting your presentation:

AOS & SCO-SOC 2023 presentations should be submitted to the Speaker Portal available at <https://ww6.aievolution.com/AmericanOrnithology/>. See login instructions above. Only Microsoft PowerPoint, PDF, and Microsoft Word documents not exceeding 450 MB will be accepted. If you made your presentation using Google Slides or Keynote, we recommend you save these files as PDFs to retain their layout. If your file exceeds the storage limit or if you have a video as part of your presentation, please contact meeting@americanornithology.org at least 24 hours in advance of your presentation to receive instructions. Presentations need to be uploaded on the day before your presentation by 22:00 ET (GMT -4). For example, all presentations on 10 August need to be uploaded by 22:00 ET on 9 August. Note that speakers will NOT be allowed to upload updated versions of their presentation directly onto the laptop before their session. Just in case there is an issue with the submitted file, please have a copy of your presentation available on a USB flash drive at the conference. Note that the presentations will be conducted on PCs. It is recommended that you test your presentation on the conference PCs that will be located at the registration desk (open Tuesday 8 August – Saturday 12 August).

Presenter bio for the conference app:

This year, presenters can provide a bio that will be visible to attendees via the conference app. This is entirely optional. If you wish to provide a bio, you can add that through the Speaker Portal by selecting “Bio/Photo” under the Dashboard menu.

Information for moderators:

Thanks to all who offered to help moderate a session in addition to giving a presentation. If we were able to assign you a session, you have already received an email. Note that there will also be an optional moderator training session at the registration desk on Tuesday 8 August at 16:00-16:30 AST (GMT -4) that we recommend you attend if you have questions.

Poster presentation instructions**Information about preparing your poster:**

The poster boards at the conference can accommodate posters with a maximum size of 121 x 121 cm (4' x 4'), so please design and print your poster accordingly. The poster boards are double-sided and 242 x 121 cm (8' x 4'), with room for two posters per side. Push pins for mounting posters will be available at the conference venue. We encourage the use of English for your posters; however, if presentations are in a language other than English, bilingual posters are strongly encouraged.

Information about presenting your poster:

Posters should be set up on their assigned poster board in Ballroom A and left up for both poster sessions. Posters should be set up between 12:00 noon and 6:30 pm on Wednesday, August 9, and removed after 8:30 pm on Thursday, August 10, and before 10:30 am Friday, August 11. You will need your poster number to find your assigned poster location (see instructions below). There are two poster sessions, 6:30–8:30 pm

on Wednesday, August 9 and Thursday, August 10. Posters will be left up throughout but presenters have been assigned a session to present their poster. You can find your assigned session and your poster number in the Speaker Portal at <https://ww6.aievolution.com/AmericanOrnithology/>. Log in using your AOS Member Portal username and password (same as what you used when submitting your abstract). You will see your assigned session under the Speaker Ready Room alongside any other presentations you are giving. Your poster number is listed just in front of your presentation title. If you are unable to present for your assigned session, we suggest that you attach a note to your poster letting attendees know that you will be present and available for questions and discussion at the alternate poster session.

Poster presenter agreement

By presenting your poster, you agree that your presentation has not violated the rights of any third parties, including, but not limited to copyrights, rights of privacy, trade secrets, and non-disclosure agreements. You also acknowledge that your presentation does not contain copyrighted, proprietary, or material that is otherwise not mine to use or share.

Exhibitors

Be sure to visit our Exhibit Hall in the RBC Place London, open Wednesday through Saturday during the conference from 10:00 a.m. to 4:00 p.m.

Explore individual exhibitors listed [on the conference website](#) to learn more, connect with representatives, and view featured products and services.

USFWS MIGRATORY BIRD PROGRAM

The U.S. Fish and Wildlife Service Migratory Bird Program provides federal leadership in migratory bird conservation and management through effective partnerships, applied science, and innovative strategies. We work with our partners to protect, restore and conserve bird populations and their habitats for the benefit of future generations by ensuring long-term ecological sustainability of all migratory bird populations, increasing socioeconomic benefits derived from birds, improving hunting and bird watching and other outdoor bird-related experiences, and increasing awareness of the value of migratory birds and their habitats for their aesthetic, ecological, recreational and economic significance.



Restaurants and concessions nearby



DOWNTOWN LONDON

 Live music  Happy Hour

- 1. Reverie
- 2. McCabe's Irish Pub
- 3. La Cucina Ristorante
- 4. Black Walnut Cafe
- 5. Haven's Creamery
- 6. Beach Boy Burger
- 7. The Tea Lounge
- 8. ANNDining
- 9. Molly Bloom's Irish Pub
- 10. Lone Star Texas Grill
- 11. Jack Astor's
- 12. Barney's 
- 13. El Furniture Warehouse
- 14. Chuck's Roadhouse
- 15. 'Melt'wich
- 16. Delilah's
- 17. Burrito Boyz
- 18. Joe Kool's
- 19. Toboggan Brewing Co.
- 20. Los Lobos
- 21. Fellini Koolini's/ Runt Club
- 22. Mythic Grill
- 23. Wink's Eatery 
- 24. Tahimi's
- 25. Dimi's Greek House
- 26. Kosmos London
- 27. Jack's
- 28. Villa Cornelia
- 29. Reset Social Cafe
- 30. The Mule
- 31. Church Key Bistro
- 32. Marienbad & Chauncer's Pub
- 33. Moxie's 
- 34. The London Club
- 35. Happiness
- 36. Milos' Craft Beer Emporium
- 37. Beerlab! Brewery & Taproom
- 38. Fitzray's 
- 39. Thaifoon
- 40. The Chef's Table
- 41. Buzz Bagels
- 42. Mad Munch
- 43. Nooner's
- 44. Coffee Culture
- 45. The Scot's Corner
- 46. Crabby Joe's
- 47. London Ale House
- 48. Budapest Restaurant
- 49. The Squire Pub & Grill
- 50. Billy's Deli
- 51. Gnosh
- 52. Grace Restaurant & Bodega
- 53. Che Resto Bar
- 54. Morrissey House
- 55. Olive R. Twist
- 56. Waldo's on King
- 57. zen'Za Pizzeria
- 58. Vice Supper Club 
- 59. SAGA Board Games & Coffee
- 60. J Dee's Market Grill
- 61. CHICKPZ
- 62. Frank & Furter's 
- 63. The Gourmet Deli
- 64. YOU Made It Cafe
- 65. Tilt Arcade Bar
- 66. Holy Diver/ The Early Bird
- 67. Hunter and Co.
- 68. London Bicycle Cafe



PATIO MAP



The map shows a grid of streets in Downtown London, Ontario, with numbered locations marked by blue circles. The grid includes Oxford St, Ann St, Pall Mall St, Waterloo St, Wellington St, Princess Ave, Dufferin Ave, Queens Ave, Dundas St, Bathurst St, York St, King St, Clarence St, Richmond St, Talbot St, and various alleys like Central Ave, Albert St, and Dufferin Ave. Locations 1 through 68 are scattered across this area, with concentrations along King St, Dundas St, and the central intersection area.

See all Downtown businesses and fun things going on at www.DowntownLondon.ca

Meeting Policies & Statements

The American Ornithological Society & Society of Canadian Ornithologists/Société des ornithologues du Canada (SCO-SOC) policies are intended to set clear expectations of behavior of meeting participants to ensure that all participants at AOS & SCO-SOC 2023 feel safe and welcome, and to ensure that this meeting is a positive experience for all.

Please review the policies, which govern our meeting.

Accessibility Policy

We are committed to making the AOS & Society of Canadian Ornithologists-Société des ornithologues du Canada 2023 conference a just, diverse, equitable, and inclusive conference environment. We have created an advisory committee dedicated to organizing a meeting that is equally and equitably accessible to as many attendees as possible. We strive to ensure the ornithological community understands the accommodations available to them and how they can contribute to an accessible meeting.

The RBC Place London, a conference center in downtown London follows Accessibility for Ontarians with Disabilities Act (AODA) requirements and stands ready to accommodate all visitors. The RBC Place London provides parking and ramp access, restroom facilities, Braille elevator buttons, phone and fire alarms for the hearing impaired, patrons with disabilities, and wheelchairs. Service animals are welcome to accompany those who need it in all areas where visitors are allowed. The meeting will take place across multiple floors and there is an elevator, escalators, and stairs. Gendered and gender-neutral restrooms, and a lactation room will be available. Please note, RBC Place can accommodate simultaneous events and AOS & SCO-SOC 2023 may not be the venue's only client during the week of the meeting.

We strongly encourage all meeting participants to adhere to the accessibility guidelines we provide, in order to create an inclusive and equitable conference environment.

If you have suggestions or questions about access, please contact:
meeting@americanornithology.org.

Diversity & Inclusion Statement

The American Ornithological Society & Society of Canadian Ornithologists-Société des ornithologues du Canada 2023 (AOS & SCO-SOC 2023) conference heartily encourages participation in our meetings by all individuals. We welcome participants of all races, ethnicities, nations of origin, citizenship statuses, religions, ages, marital statuses, sexual orientations, gender identities and/or expressions, disabilities, and all other equity-denied groups. We acknowledge the role of systemic racism and prejudice in the historical and current oppression and erasure of Black, Indigenous, and other

persons of color in particular, as well as other equity-denied communities. We are dedicated to providing a safe, accessible, open, respectful, and bias-free environment, and to increasing the representation and meaningful, mutually-valuable inclusion of racialized persons, minoritized groups, and their intersectional identities in meetings, membership, leadership, volunteers, and staff. To support a safer space for all participants, particularly those from equity-denied groups, all conference attendees are expected to uphold the AOS & SCO–SOC 2022 Meeting Code of Conduct and Social Media & Commenting Policy. We are dedicated to achieving equity for all and commit to anti-racism and anti-discrimination. We embrace diversity for its power to develop new ideas and to foster a productive environment through the introduction of different backgrounds, perspectives, and experiences. In representing the field of ornithology, our organizations strive to lead by example as role models for equity, diversity, and inclusion.

Language Policy

The official languages of the American Ornithological Society & Society of Canadian Ornithologists-Société des ornithologistes du Canada 2023 (AOS & SOC–SCO 2023) conference are English and French. To honor the conference theme, “Birds as Bridges,” we strive to provide an equitable and inclusive experience to all participants. While our special events, keynote, and plenaries will be held in English or French, we are working towards facilitating a multilingual meeting on several fronts. We are providing live translations of our plenaries and public talks, publishing all abstracts in English and French, and providing links to translation services for non-English speakers. We welcome our valued members from across the Americas and around the world and will make components of the meeting more inclusive and accessible across several languages. We encourage speakers to present in the language they are most comfortable using, and emphasize using bilingual slides or labels in all presentations. The AOS & SCO–SOC 2023 conference will have opportunities for participants to express their shared enthusiasm for ornithology regardless of language.

If you have suggestions or questions about the meeting language policy, please contact: meeting@americanornithology.org.

Meeting Code of Conduct

This Meeting Code of Conduct Policy* (“Policy”) sets clear expectations of professional behavior of individuals (“Participants”) participating in the American Ornithological Society and Society of Canadian Ornithologists/Société des ornithologistes du Canada 2023 annual meeting (“AOS & SOC–SOC 2023”) and their related activities (“Event”), whether virtual or in person, to ensure ethical, professional, and inclusive conduct that provides a safe and welcoming environment for an open exchange of ideas. This Policy applies to all Participants of AOS & SOC–SOC 2023 events which includes organizers, attendees, speakers, volunteers, sponsors, exhibitors, partners, award recipients, guests, staff, outside contractors, and service providers.

AOS & SCO–SOC 2023 welcomes all Participants and celebrates diversity in all its forms. AOS & SOC–SOC 2023 is dedicated to providing an inclusive environment that

is collaborative, supportive, and engaging for everyone involved, and that is free of discrimination, harassment, and retaliation. AOS & SCO-SOC 2023 expects all Participants to play a role in our mission by being respectful and considerate of each other, providing supportive critique, and embracing the multitude of opinions offered by Participants engaged in any AOS & SCO-SOC 2023 Event.

This Policy applies during the Event period, meaning: (1) the day(s) on which an in-person Event is occurring, (2) the period of set-up and break-down of facilities and equipment for those Participants that are involved in such activities, (3) the day(s) on which a virtual AOS & SCO-SOC 2023 Event occurs, and (4) while a Policy violation is being evaluated or investigated following the Event.

AOS & SCO-SOC 2023 intends to foster effective, open and honest communications and promotes equality of opportunity and treatment for all Participants. It is imperative that Participants conduct themselves professionally toward all, engage in courteous and respectful interactions, and recognize the intellectual property of others participating in AOS & SCO-SOC 2023 events. All forms of communication among Participants fall under the jurisdiction of this Policy. These include public and private communications between Participants during the Event period, including but not limited to, face-to-face interactions, in virtual breakout rooms, via electronic chat functions (e.g., Q/A box, Zoom Chat), emails, texts (including via platforms such as Signal, Slack, and WhatsApp), social media (see the Social Media and Commenting Policy), phone calls, and other forms of written, verbal, and non-verbal (including visual) communication. In addition, conduct relating to communications, as described above, occurring after the Event, but pertaining to content from the Event and/or where contact information of a Participant was procured during the Event may also fall under the purview of this Policy or the AOS Code of Conduct and Ethics and may be reported to the the AOS & SCO-SOC 2023 Safe Committee as described below.

Expectations of Participants

As outlined in the AOS Code of Conduct and Ethics, discrimination, harassment, and bullying by and between Participants will not be tolerated. Participants asked to stop such behavior(s) by anyone are expected to comply immediately, regardless of their intent.

Discrimination is the treatment of an individual or group based on gender, race, ethnic or national origin, religion, age, marital status, pregnancy or parental status, sexual orientation and gender identity, disability status, physical appearance, socioeconomic level, or other protected statuses that results in unfair, unequal, or differential professional opportunities or benefits.

Harassment is any form of discrimination that is unwelcome or unwanted, or persistent offensive, denigrating, or hostile behavior that is directed toward a person or group based on gender, race, ethnic or national origin, religion, age, marital status, pregnancy or parental status, sexual orientation and gender identity, disability status, physical appearance, socioeconomic level, or other protected statuses. Harassment can be

manifested by, but not limited to, verbal or written abuse such as slurs, epithets, denigrating jokes, abusive direct messaging online, or negative stereotyping; and by non-verbal behavior such as obscene gestures or the display of denigrating or insulting written or graphic materials.

Sexual harassment is a particular type of harassment that includes unwelcome conduct such as sexual advances, requests for sexual favors or dates, remarks about an individual's appearance, discussions, remarks or jokes of a sexual nature, and/or other verbal or physical harassment of a sexual nature. Sexual harassment can also include non-verbal behavior such as unwanted physical contact or violations of personal space that are of a sexual nature. Behavior involving "quid pro quo" offers of professional opportunities or the creation of a hostile professional environment are clear examples of sexual harassment.

Bullying is unwelcome or unreasonable verbal or non-verbal behavior by an individual or group that demeans, intimidates, humiliates, abuses, or sabotages the work of people and causes physical or emotional harm in a professional environment. Bullying behavior is most often aggressive, persistent, and part of a pattern, but it can also occur as a single egregious incident. Bullying often involves abuse of professional or supervisory authority or position. Exercising appropriate authority, directing the work of others pursuant to their job responsibilities, an honest error, and respectful scientific debate over differences of opinion are not considered bullying behavior.

In the context of communications that take place during an Event presentation and the discussions among and between Participants that follow, communications should be focused on the Event topic at hand and all Participants must be able and welcome to equitably and effectively participate. Participants may courteously and respectfully express an opinion, raise research or describe an experience ("articulation") that is at odds with the opinions of others. Such an articulation must be part of an on-point discussion of the topic at hand and offered in a manner that does not interfere with others' reasonable ability to participate fully. In the pursuit of science, individuals have the freedom to disagree with or dispute wider community-held positions.

By registering for and attending this Event, Participants agree to allow the AOS & SCO-SOC 2023 to use their photo or a video of them in any AOS & BC 2022 publication, promotion, on the website or social media pages. AOS & SCO-SOC virtual events will be recorded by AOS & SCO-SOC 2023 and the content will be made available to Participants through a period of time following the Event. Only the AOS & SCO-SOC 2023 may (a) take/make or distribute (in any medium) audio- or visual-recordings of the Event or Participants or (b) distribute them (via social media or other means). Other recording of AOS & SCO-SOC 2023 Events is strictly prohibited. This includes recording events, in whole or in part, via videos and/or making audio recordings. Participants wishing to share information from the Event and/or post screenshots via social media, whether of their own material or that of others, must adhere to the platform's stated rules and policies and the AOS & SOC-SOC 2023 Social Media and Commenting Policy.

Participants are required to disclose on the registration form whether they are currently, or have been on-leave, discharged, or subject to any restrictions and/or restorative remedies in their activities related to an allegation, investigation, and/or finding of misconduct in their professional or personal life. Participants also must disclose whether, in the last five (5) years, they have been discharged or were forced to resign from work or other activities due to an allegation or finding of misconduct. Registrants who fail to disclose incidents as described above are in violation of this Policy. AOS & SCO-SOC 2023 will review disclosures on a case-by-case basis and may determine in its discretion whether, due to the nature and circumstances of the allegation or finding, the person's presence is likely to result in a safety concern, or to be disruptive or burdensome to the Event or other Participants' reasonable ability to fully participate. If so, AOS & SCO-SOC 2023 may, in its discretion, deny participation to the person. The AOS & SCO-SOC 2023 meeting organizers prioritize preventative safety and non-disruption measures in the interest of many Participants, over the interests of one or a few, if the two must be weighed.

Reporting an Incident

Any Participant who becomes aware of, experiences, or witnesses another Participant potentially in breach of this Policy may file a written Complaint to the AOS & SCO-SOC 2023 Safe Meeting Committee at this email address safe-meeting@americanornithology.org or through this Google Form. The SCO-SOC 2023 Safe Meeting Committee is a group of individuals representing the AOS & SCO-SOC 2023 hosting societies for the purpose of evaluating, investigating, and where possible, resolving conduct-related issues. The AOS & SCO-SOC 2023 Safe Meeting Committee is dedicated to treating every reported incident with respect, sensitivity, and dignity.

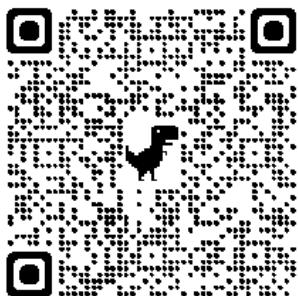
AOS & SCO-SOC 2022 Safe Meeting Committee:

Jennifer Walsh-Emond, Chair
Jenn Houtz
Lionel Leston
Shae Turner

Ex officio members:

Judith Scarl
Christine Handel Schmidt

Complaints made on-line before, during, and after the Event will be responded to swiftly. Participants preferring to submit a question, concern, or their written Complaint to an individual member of the committee should include the committee member's name in the subject line (e.g., ATTN: Name). For ease of reporting an incident use the QR code below or follow the procedure outlined on the conference website.



Guidance on reporting violations of the Policy and the process for evaluating and handling written Complaints are outlined in detail in the AOS Code of Conduct and Ethics. Before reporting a Complaint, a Participant may ask the AOS & SCO-SOC 2023 Safe Meeting Committee up front about the options for resolution of certain types of complaints and the disclosures that may be necessary to pursue them, if this information is desired.

The AOS & SCO-SOC 2023 Safe Meeting Committee will maintain confidentiality during the investigative process to the extent possible as long as the rights of others are not compromised and subject to the ability to conduct an appropriate investigation.

AOS and its representatives may make disclosures about a pending Complaint, where in its judgment and discretion, the interests of safety or law so merit. Therefore, as outlined in the AOS Code of Conduct and Ethics, absolute confidentiality is not guaranteed. All Participants in the investigation are required to respect the confidentiality of the investigatory process and should not make disclosures, except as otherwise required by law or safety, while a Complaint is being reviewed, investigated, and resolved. Failure to do so is a serious violation of this Policy.

Retaliation & Bad Faith Accusations Are Prohibited. AOS & SCO-SOC 2023 will not tolerate any form of retaliation against Participants who in good faith file a Complaint or assist in an investigation of reported violations covered by this Policy and will be subject to investigation and the same types of disciplinary action for other forms of misconduct. Retaliation is defined as: punishing or otherwise engaging in differential adverse treatment of someone in response to that person raising a concern about a violation or possible violation of the Policy. Retaliation includes, but is not limited to, any activity that would discourage someone from resisting or reporting misconduct in the future, such as: transfer to a less desirable position or assignment; verbal or physical abuse; increased scrutiny; spreading false rumors; or making the person's work more difficult. Similarly, bad faith accusations in which there has been intentionally false, frivolous, and/or malicious reporting of violations will not be tolerated. For complete information on the Evaluation and Investigation Process and Procedures, determining Disciplinary Action (including and restorative practice and other community-building options), and Appeals, please refer to the AOS Code of Conduct and Ethics.

Acceptable Behavior	Unacceptable Behavior
<p>Demonstrate respect and consideration for all people, and don't dominate discussion.</p> <p>Welcome and listen well to others. Make room for and invite a diversity of voices in discussions in the Event and in social media and online platforms of the Event.</p> <p>Be collaborative. Be mindful not to exert dominance over others. Consider the effect of relationship, position, experience, and privilege power differentials, and other factors to avoid dominance.</p> <p>Demonstrate that differing perspectives are valued—critique ideas (not people); be courteous and respectful when expressing an opinion.</p> <p>Report conduct concerns to the Safe Meeting Committee so that concerns can be addressed responsibly and timely.</p> <p>Respect confidentiality of the identities of any individuals involved in a conduct concern, while it is being reviewed and addressed.</p> <p>Answer disclosure questions about conduct concerns in a forthright and complete manner (e.g., when registering or during a review of concerns).</p> <p>If any Participant, leader or facilitator of an online activity/session/event, or any Society official directs you to stop a behavior or comment, immediately comply. After complying, you may raise any questions or concerns to the Safe Meeting Committee.</p>	<p>Intentionally talk over or interrupt others.</p> <p>Engage in biased, demeaning, intimidating, coercive, bullying, or harassing/hostile written, verbal, or non-verbal (including visual) conduct or commentary, whether seriously or in jest.</p> <p>Engage in personal attacks.</p> <p>Comment on personal appearance, seriously or in jest.</p> <p>Engage in unwanted contact, including harassment and/or bullying.</p> <p>Retaliate against or disadvantage anyone for reporting a conduct concern or assisting in its resolution, or make bad faith accusations.</p> <p>Disrupt the meeting or engage in threats of violence or harm of any kind. Do not create/contribute to an unsafe or exclusionary situation.</p> <p>Invade the personal privacy of individuals. Only the Society may (a) take/make or distribute (in any medium) audio- or visual- recordings of the Event or Participants or (b) distribute them (via social media or other means). Other recording of Society Events is strictly prohibited. This includes recording events, in whole or in part, via videos and/or making audio recordings. Participants wishing to take screen-captures and/or share information from the Event via social media must adhere to the use terms of those platforms.</p>

*This policy was adapted from policy recommendations provided by the Societies Consortium on Sexual Harassment in STEMM, of which AOS is a member.

Social Media & Commenting Policy

The American Ornithological Society & Society of Canadian Ornithologists/Société des ornithologues du Canada (SCO–SOC) conference (AOS & SCO–SOC 2023) is a pro-social media event and meeting organizers actively encourage the sharing of conference content. Sharing ornithological science with the public via social media is one way to educate the public, which can only help the support of the science and its application. Promotional content for the meeting will be aggregated online using the conference hashtag: #AOS_SCO23.

AOS & SCO–SOC 2023 presenters are encouraged to include personal and/or project social media handles and hashtags on slides and posters. We recommend adding relevant handles and hashtags to at least the opening slide, but preferably to all slides. For those without personal/project handles or hashtags, consider including the conference hashtag or a social media icon on slides to let people know you are supportive of them posting about your work on social media.



No photos or recording image.

AOS & SCO–SOC 2023 presenters must opt out if they do not want their presentation or research to be featured in social media posts: this is best achieved by placing a “no social media” message and symbol on slides or materials. If presenters do not opt out in this manner, conference organizers and/or attendees can share published research presented at the conference without consent.

AOS & SCO–SOC 2023 organizers are not responsible for attendees commenting or live tweeting, but ask that attendees respect presenters’ wishes. Please give credit to presenters/researchers whose presentation and/or research are featured in your post.

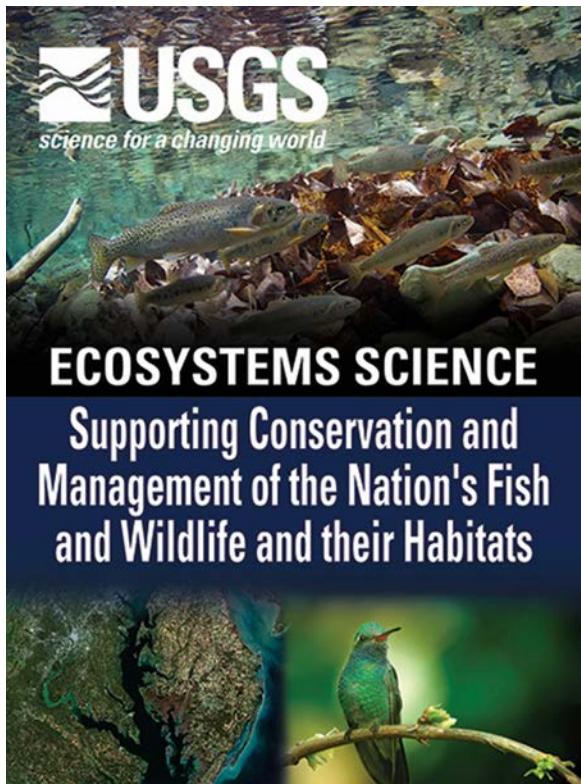
The goal of this policy is to facilitate a lively and respectful conversation about science, professional development, and ornithology. Anyone may participate in conversations on the AOS & SCO–SOC 2023’s host societies’ social media channels, but:

- The meeting’s host societies have the right to delete posts or comments containing spam, irrelevant remarks, or items that do not align with the mission/integrity of the AOS & SCO–SOC 2023 or violate the AOS & SCO–SOC 2023 Social Media & Commenting Policy or Meeting Code of Conduct, or a hosting society’s code of professional conduct or social media policy.
- Personal attacks, promotion of violence or illegal activities, harassment, bullying, offensive material, or profanity will be deleted.
- AOS & SCO–SOC 2023 reserves the right to ban users who violate this policy.

- Events may not be publicly live-streamed without prior arrangement and approval by the AOS & SCO–SOC Meeting Coordination Committee.
- Conference attendees are expected to abide by the AOS & SCO–SOC 2023 Meeting Code of Conduct and all those engaging on social media are asked to maintain respect, courtesy, inclusivity, and support in their conduct to ensure a safe, hospitable, and productive environment for all. Discrimination, harassment, and/or retaliation will not be tolerated.

We recommend that presenters and those sharing on social media be mindful of how photos of birds (and other animals), especially birds in the hand, may appear to the public. Some of the questions to consider before sharing a photograph include: Are safe and taxonomically-appropriate grips being used? Does the bird appear in any way to be stressed, disheveled, or in an unnatural position? Is it a “trophy shot” (prolonging handling time), or was it taken during banding and provides educational material such as molt? For further suggestions on sharing photos of birds in the hand, see the 2022 AOS Policy on the Use of Photography on Digital Platforms and the North American Banding Council’s photographic guidelines.

AOS & SCO–SOC 2023 participants can report violations of this policy by contacting the meeting’s Professional Ethics & Safe Conduct Committee at:
safe-meeting@americanornithology.org.



General Schedule

Note: All times listed are local time, tentative, and subject to change.

Please note: This schedule is subject to change; events might be added or shifted as we continue with our conference planning. (Updated 8-2-23)

<https://meeting.americanornithology.org/program/general-schedule/>

Daily Program At-a-Glance

All dates and times are local time and are subject to change. Daily schedule changes will be posted at the conference.

Sunday, 6 August

Time	Event Name	Location (subject to change)	Description
	Field Trips	Location info will be provided to registrants.	See Field Trips page for more info!

Monday, 7 August

Time	Event Name	Location (subject to change)	Description
17:00–20:30	AOS Council Meeting & Dinner	Salon G	See Networking & Social Events page for info.

Tuesday, 8 August

Time	Event Name	Location (subject to change)	Description
8:00–15:00	Conference Workshops		Pre-registration required. The workshops and training sessions at AOS & SCO–SOC 2023 offer opportunities both for hands-on learning exercises, where participants engage in a mix of lectures and activities, and for panel discussions on a wide range of timely topics highlighting exciting advances in ornithological research, management, social justice, education, and conservation.
		Salon B, B1	8:00–17:00 Integrated Population Models

		Salon H	<p>9:00-11:00 Strengthening diversity, equity, inclusion and accessibility in ornithology: Are we there yet?</p> <p>13:00-14:30 Developing your professional online profile</p>
		Salon J	<p>8:00-11:00 Career opportunities in the Wildlife Service: What do students and early career professionals really need to know to succeed?</p> <p>12:30-14:30 Congrats on Installing Motus stations... Now What?</p>
		Salon D1 + D	<p>8:00-11:00 Detectability offsets to combine survey data from independent bird studies</p> <p>13:00-15:00 Applying the Bird Migration Explorer for Education, Research, and Conservation</p>
		Salon E	9:00-16:00 North American Ornithological Atlas Committee (NORAC) 2023 Workshop
		Salon F	<p>8:00-11:00 bbsBayes2 - An updated and improved R package for customized analyses of North American Breeding Bird Survey data</p> <p>13:00-16:00 Quality filtering SNP datasets using R</p>
		Salon C2, C3	9:00-10:30 Using Bioacoustics as a Valuable Research Tool
8:00–15:00	AOS Council Meeting	Salon G	See Networking & Social Events page for info.

15:00– 17:00	<u>Early Professiona l Mixer</u>	Ballroom 3, 6	The Student–Early Professional Mixer is an opportunity for students to connect with early professionals both inside and outside academia in a casual setting. Students and early professionals will be matched in small groups based on their research interests and career goals. The social will follow a <u>student/early-professional-focused workshop on developing your online profile</u> . Panelists from the workshop will be encouraged to attend the mixer, as will meeting keynote speakers, creating additional networking opportunities. You do NOT have to attend the workshop in order to attend the mixer.
Mtg: 15:30– 17:00 Dnr: 17:00– 18:30	AOS Fellows Meeting & Dinner	Ballroom 3, 6	See <u>Networking & Social Events</u> page for info.
16:30– 17:30	Birds Canada Presentation	Salon J	<u>A Guide to Helping Birds in Canada</u> Join Jody Allair, Birds Canada's Director of Community Engagement, for a captivating presentation on the various threats facing birds in Canada, and a detailed discussion on the ways you can make a difference. Whether you are a seasoned birder, or just bird interested, this session will aim to inspire the appreciation, understanding and conservation of our amazing feathered friends.
19:00– 20:00	<u>Keynote Speaker</u>	Plenary Room (Ballroom 4&5)	<u>Gary Pritchard ~Giniw (Golden Eagle)</u> Adjunct professor in the Department of Biology at Carleton University and a Conservation Ecologist and Indigenous Engagement/Placemaking Specialist from Curve Lake First Nation, Ontario
20:00– 21:30	<u>Opening Reception</u>	Ballroom Foyer	Join us for a social gathering for light bites and a cash bar (drinks, soft drinks, mocktails) after the Keynote Address.

Wednesday, 9 August

Time	Event Name	Location (subject to change)	Description
6:30–8:00	Working Groups		
8:00–9:30	Plenary	Plenary Room (Ballroom 4&5)	<p>Morning Plenary 1: Dr. Bridget Stutchbury Distinguished Research Professor in the Department of Biology at York University, Toronto</p> <p>“Taking flight with a declining migratory songbird: connectivity, carry over effects, and juvenile migration”</p> <p>Morning Plenary 2: Dr. Leanne Grieves NSERC Postdoctoral Fellow – McMaster University; SCO–SOC Early Career Research Award (ECRA) Winner</p> <p>“Chemical and microbial ecology in birds: Insights from non-model systems”</p>
10:30–11:00	Coffee Break	Main Floor Foyer	
10:00–12:00	Paper Session 1	Salon J	<p>Symposium: S Urban areas as bridges Moderator: Barbara Frei</p>
		Salon D	<p>Symposium: S Movement data for conservation Moderator: Sarah Clements</p>
		Salon B	<p>Contributed papers: Song & Vocalizations 1 Moderator: Daniel Mennill</p>

		Salon H	Contributed papers: Evolution 1 Moderator: Ethan Gyllenhaal
		Salon E	Contributed papers: Distributions & Ranges 1 Moderator: Wendy Dorman
		Salon B1	Contributed papers: Behavior 1 Moderator: Mark Hauber
		Salon G	Contributed papers: Climate change 1 Moderator: Lionel Leston
12:00– 13:00	Roundtable	Plenary Room (Ballroom 4&5)	<u>Roundtable</u> Perspectives on birding and ornithology from the deaf and hard of hearing
12:00– 13:00	Lunch Break		
12:00– 13:00	SCO–SOC Annual General Meeting	Salon C1	
13:00– 15:00	Paper Session 2	Salon E	Symposium: S Social perspective on migration Moderator: Joely DeSimone
		Salon D	Symposium: S Volunteer-based science 1 Moderator: Jody Allair
		Salon H	Contributed papers: Evolution 2 Moderator: Kevin Bennett
		Salon B	Contributed papers: Molt & Plumage Moderator: Haley Kenyon
		Salon B1	Contributed papers: Life history Moderator: Joseph Welklin

		Salon J	Contributed papers: Breeding biology 1 Moderator: Ben Sonnenberg
		Salon G	Contributed papers: Conservation/ Declining species 1 Moderator: Lesley Bulluck
15:00–15:30	Coffee Break	Main Floor Foyer	
15:30–17:00	Paper Session 3	Salon D	Symposium: S Volunteer-based science 2 Moderator: Jody Allair
		Salon H	Contributed papers: Genomics 1 Moderator: Scott Taylor
		Salon E	Contributed papers: Migration biology 1 Moderator: Kyle Horton
		Salon J	Contributed papers: Nonbreeding biology Moderator: Francisco Vega-Reyes
		Salon B1	Contributed papers: Urban ecology 1 Moderator: Michael Murphy
		Salon B	Contributed papers: Community ecology 1 Moderator: Laura Vander Meiden
		Salon G	Contributed papers: Conservation/ Declining species 2 Moderator: Erik Blomberg
17:00–18:30	Roundtable	Plenary Room (Ballroom 4&5)	<i>Roundtable</i> Recovering Birds at the Tipping Point, Advancing the Road to Recovery

17:00–18:30	Dinner Break		
18:30–20:00	Poster Session 1	Ballroom 1, 2, 7, 8	
20:30	Movie Night: <i>Flyways</i>	Plenary Room (Ballroom 4&5)	A screening of the documentary <i>Flyways</i> will be held at the conference center. Parts of this movie were filmed in Western University's bird wind tunnel. More details available here .

Thursday, 10 August

Time	Event Name	Location (subject to change)	Description
6:30–9:00	Shorebird Shuffle 5K Fun Run/Walk		Come join in the fun at our annual 5K walk or run. This year's theme, the " Shorebird Shuffle ," will have race shirts featuring a shorebird common across Canada's lakes: the Spotted Sandpiper. Starting this year, we are working toward designing 5K routes that are more accessible to those with mobility challenges or concerns. While the exact route will be posted to the meeting website soon, we are planning for a route along a multi-use path that minimizes substrate changes and does not require stepping up onto or down off of sidewalks. Prizes will be awarded to the top finishers using female, male and gender-neutral terms, so get training and we'll look forward to seeing you at the start line!
6:30–9:00	Working Group		
8:30–10:00	Plenary	Plenary Room (Ballroom 4&5)	Morning Plenary 1: Dr. Keith Hobson Senior Research Scientist with Environment and Climate Change Canada “More ornithological meanderings with stable isotopes: The toolbox just keeps

			growing ...“
	Coffee Break	Main Floor Foyer	
10:30–12:00	Paper Session 1	Salon D	Symposium: S Automated radio telemetry 1 Moderator: Nathan Cooper
		Salon B	Symposium: S Importance of detection Moderator: Brandon Edwards
		Salon H	Contributed papers: Evolution 3 Moderator: Abigail Kimmitt
		Salon B1	Contributed papers: Methods Moderator: Brian Evans
		Salon E	Contributed papers: Grassland birds 1 Moderator: Megan Massa
		Salon J	Contributed papers: Diseases & Parasites 1 Moderator: Tosha Kelly
		Salon G	Contributed papers: Breeding phenology Moderator: Ashley Peele
12:00–13:00	Lunch Break/ Working Groups		
12:00–13:00	Roundtables	Plenary Room (Ballroom 4&5)	Roundtable: • Increasing inclusion and belonging for 2SLGBTQIA+ ornithologists
		Salon C2 & C3	Roundtable: • Identifying unifying processes and terminology in juvenile life-stage nomenclature

12:00–13:00	Golden Auks Luncheon	Ballroom 3&6	The Golden Auks luncheon is an informal catered lunch for senior ornithologists who want to connect with colleagues. Advance ticket purchase (\$25) is required through our conference registration form. See Networking & Social Events page for info.
13:00–15:00	Paper Session 2	Salon D	Symposium: S Automated radio telemetry 2 Moderator: Nathan Cooper
		Salon B	Symposium: S Breeding bird atlases Moderator: Julie Hart
		Salon B1	Symposium: S Aerial Insectivores 1 Moderator: Ann McKellar
		Salon J	Contributed papers: Diseases & Parasites 2 Moderator: Cody Kent
		Salon H	Contributed papers: Genomics 2 Moderator: Sabrina Taylor
		Salon G	Contributed papers: Migration biology 2 Moderator: Nathan Senner
		Salon E	Contributed papers: Grassland birds 2 Moderator: Geoff Holroyd
15:00–15:30	Coffee Break	Main Floor Foyer	
15:30–17:00	Paper Session 3	Salon D	Symposium: S Automated radio telemetry 3 Moderator: Nathan Cooper
		Salon B1	Symposium: S Aerial Insectivores 2 Moderator: Ann McKellar

		Salon E	Contributed papers: Public engagement & Social science 1 Moderator: Ashley Dayer
		Salon H	Contributed papers: Genomics 3 Moderator: Pearl Rivers
		Salon G	Contributed papers: Annual cycle 1 Moderator: Benjamin Winger
		Salon J	Contributed papers: Behavior 2 Moderator: Michael Granatosky
		Salon B	Contributed papers: Breeding biology 2 Moderator: Scott Sakaluk
17:00	<u>A Wandering Chat: a social mixer for non-academic researchers</u>	Ballroom 3&6	Research from outside the academy is an important component of advancing ornithological science and conservation. If you are somebody who has wandered outside of academia for your research career (or are interested in learning more about these career paths), consider joining our community for our inaugural meeting. This is an informal social to build relationships, expand networks, and foster new collaborations. Snacks and drinks are provided. Advance registration required through registration form. Light snacks provided. See <u>Networking & Social Events</u> page for info.
17:00–18:30	Dinner Break		
18:30–20:00	Poster Session 2	Poster Room (Ballroom 1, 2, 7, 8)	

Friday, 11 August

Time	Event Name	Location (subject to change)	Description
6:30–8:30	<u>Rainbow Lorikeets Sunrise Social</u>	Ballroom 3&6	The Rainbow Lorikeets are organizing a 2SLGBTQIA+ social at this year's conference. This will be the main event for the 2SLGBTQIA+ community and allies to meet together and network.
6:30–8:30	Working Groups		
8:30–10:00	Plenary	Plenary Room (Ballroom 4&5)	<p>Morning Plenary 1: Dr. Sara Lipshutz Assistant Professor, Loyola University Chicago; Research Associate, Life Sciences, Field Museum of Natural History; AOS 2023 Ned K. Johnson Early Investigator Award winner</p> <p>“Fighting for fitness: integrating behavioral, hormonal, and genomic perspectives on the evolution of female competition”</p> <p>Morning Plenary 2: Dr. Emily Choy Incoming Assistant Professor in Biology at McMaster University; SCO–SOC Early Career Research Award (ECRA) Winner</p> <p>“The direct and indirect effects of Arctic climate change and other anthropogenic stressors to seabirds as sentinels of marine ecosystem health”</p>
10:00–10:30	Coffee Break	Main Floor Foyer	
10:30–12:00	Paper Session 1	Salon B	Symposium: S Golden-Winged Warbler 1 Moderator: Amber Roth

		Salon B1	Symposium: S Birds and ectosymbiotic arthropods 1 Moderator: Heather Proctor
		Salon D	Contributed papers: Public engagement & Social science 2 Moderator: Maggie MacPherson
		Salon G	Contributed papers: Migration physiology Moderator: Scott McWilliams
		Salon H	Contributed papers: Breeding habitat Moderator: Olivia Wang
		Salon J	Contributed papers: Community ecology 2 Moderator: Jonah Dominguez
		Salon E	Contributed papers: Climate change 2 Moderator: Ryan Buron
12:00–13:30	Lunch Break/ Working Groups		
12:00–13:30	Roundtables	Plenary Room (Ballroom 4&5)	<i>Roundtable:</i> • Bird Name-a-thon: Categorizing birds names using crowdsourcing
		Salon C2&C3	<i>Roundtable:</i> • Solutions-oriented avian conservation research
13:30–15:00	Paper Session 2	Salon B	Symposium: S Golden-Winged Warbler 2 Moderator: Amber Roth
		Salon B1	Symposium: S Birds and ectosymbiotic arthropods 2 Moderator: Heather Proctor

		Salon H	Symposium: S Birds as sentinels 1 Moderator: James Rivers
		Salon G	Contributed papers: Physiology 1 Moderator: Garth Casbourn
		Salon E	Contributed papers: Population biology 1 Moderator: Thomas Benson
		Salon D	Contributed papers: Anthropogenic impacts 1 Moderator: Solange Mekuate Kamga
		Salon J	Contributed papers: Song & Vocalizations 2 Moderator: Rachael DiSciullo
15:00– 15:30	Coffee Break	Main Floor Foyer	
15:30– 17:00	Paper Session 3	Salon B	Symposium: S Golden-Winged Warbler 3 Moderator: Amber Roth
		Salon H	Symposium: S Birds as sentinels 2 Moderator: James Rivers
		Salon D	Contributed papers: Anthropogenic Impacts 2 Moderator: Rory Macklin
		Salon B1	Contributed papers: Evolution 4 Moderator: Jessie Salter
		Salon J	Contributed papers: Migration biology 3 Moderator: Andrew Beauchamp
		Salon E	Contributed papers: Population biology 2 Moderator: Jeffrey Brawn
		Salon G	Contributed papers: Physiology 2 Moderator: Brian Trevelline
17:00– 18:30	Dinner Break		

17:00–18:30	Golden-winged Warbler Working Group	Salon C2&C3	The Golden-winged Warbler Working Group is celebrating its 20th anniversary as one of the oldest single-species bird working groups in North America! We invite you to join us to learn more about our activities and discuss future directions as we work to recover the Golden-winged Warbler. This meeting is open to everyone! Please join as we celebrate and look to the future. Pizza and a beverage are available for a \$10 donation.
18:30–20:00	Quiz Bowl	Plenary Room (Ballroom 4&5)	The AOS Student Affairs Committee hosts a bird-themed trivia Quiz Bowl every year. The Quiz Bowl initially involves a round of pub-style trivia that all conference goers can participate in. After that, the top 3 student teams compete in a Jeopardy-style round and the winners receive prizes. The Quiz Bowl typically sees strong participation from both student and non-student conference attendees, and is a unique opportunity for students to put their knowledge of birds and ornithology to the test in a friendly competition. Students form teams of three and compete to win prizes. You do NOT have to assemble your team beforehand. Groups can be formed at the beginning of the event.

Saturday, 12 August

Time	Event Name	Location (subject to change)	Description
6:30–8:30	Working Groups		
8:30–10:00	Plenary	Plenary Room (Ballroom 4&5)	Morning Plenary 1: Dr. Glaucia Del-Rio Edward W. Rose Postdoctoral Fellow, Cornell Laboratory of Ornithology; AOS 2023 James G. Cooper Early Professional Award winner “Insights into the speciation process from the most non-model organism ever”

			<p>Morning Plenary 2: Dr. Carrie Branch Assistant Professor, University of Western Ontario; AOS 2023 Ned K. Johnson Early Investigator Award winner “Sexual selection, female choice, and cognitive adaptation in a food-caching bird”</p>
10:00–10:30	Coffee Break	Main Floor Foyer	
10:30–12:00	Paper Session 1	Salon E	<p>Symposium: S Bird-window collisions 1 Moderator: Brendon Samuels</p>
		Salon B	<p>Symposium: S Western migratory Hummingbirds Moderator: Miguel Matta</p>
		Salon G	<p>Contributed papers: Evolution 5 Moderator: Michael Hanson</p>
		Salon D	<p>Contributed papers: Urban ecology 2 Moderator: Rachel Buxton</p>
		Salon H	<p>Contributed papers: Breeding biology 3 Moderator: Daniel Hanley</p>
		Salon J	<p>Contributed papers: Annual cycle 2 Moderator: Allison Huysman</p>
		Salon B1	<p>Contributed papers: Diet Moderator: Kirsty Gurney</p>
12:00–13:30	Lunch Break/ Working Groups		
13:30–15:00	Paper Session 2	Salon E	<p>Symposium: S Bird-window collisions 2 Moderator: Brendon Samuels</p>

		Salon D	Symposium: S Restoration for avian conservation 1 Moderator: David Agro
		Salon H	Contributed papers: Breeding systems Moderator: Allison Johnson
		Salon G	Contributed papers: Conservation Moderator: Malcolm Sarfo-Ansere
		Salon J	Contributed papers: Distributions & Ranges 2 Moderator: Wendy Dorman
		Salon B	Contributed papers: Song & Vocalizations 3 Moderator: Sean Roach
15:00– 15:30	Coffee Break	Main Floor Foyer	
15:30– 17:00	Paper Session 3	Salon H	Symposium: S Loggerhead Shrike Moderator: Amy Chabot
		Salon D	Symposium: S Restoration for avian conservation 2 Moderator: David Agro
		Salon G	Contributed papers: Phylogenetics & systematics Moderator: David Toews
		Salon J	Contributed papers: Models Moderator: Ryan Burner
		Salon E	Contributed papers: Conservation/ Agriculture Moderator: Ruth Bennett
17:00– 18:30	Dinner Break		
18:30– 19:30	<u>Student Awards &</u>	Plenary Room	Awards will include PIF awards as well as student presentation awards

	<u>Closing Ceremony</u>	(Ballroom 4&5)	
19:30–20:30	<u>Storytelling Event</u>	Plenary Room (Ballroom 4&5)	Three conference participants share stories that present a more holistic, complete rendition of themselves not only as ornithologists, but as people who have fears, struggles, and hopes that are relatable across all walks of life.
20:30–22:00	<u>Closing Social</u>	Ballroom 2, 3, 6, 7 (Poster Room)	Join us for a social gathering for light bites and a cash bar (drinks, soft drinks, mocktails) after the Closing Ceremony & Storytelling events. Last call will be at 9:45 p.m.

Merchandise

Shop our AOS & SCO-SOC 2023 online Bonfire site for a great selection of conference merch! We will not have an onsite merch store at the conference this year; all merch sales will be through our Bonfire site:

<https://www.bonfire.com/store/american-ornithological-society/>.

Emblazoned with our beautiful logo designed by Jamie Kapitain of KAP Design, Inc., this year's snappy gear features three imperiled species: the Piping Plover (*Charadrius melanotos*), the Barn Swallow (*Hirundo rustica*), and the Least Bittern (*Ixobrychus exilis*). Our logo further highlights our commitment to Diversity, Equity, Accessibility, and Inclusivity, where BRIDGE symbolizes Belonging, Respect, Inclusion, Diversity, Growth, and Equity as we unite around our love of birds. You'll feel proud to sport this gear, knowing that your purchase supports important efforts in ornithology.

#AOS_SCO23 MERCH!

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2023 Ornithological Conference
8–12 AUGUST 2023
RBC PLACE LONDON

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Social and Networking Events

The AOS & SCO–SOC 2023 Conference has several exciting daily networking events and opportunities throughout the week, designed to meet the needs of ornithologists from diverse backgrounds and career stages.

Daily Events

Student Mentor–Mentee Meet-Ups

Organizers: Jenn Houtz, Lan-Nhi Phung, Sarah Gutowsky

Tuesday–Saturday, 8–12 August (exact date & time to be arranged by student and assigned mentor)

The student-mentor meetup is an opportunity for students to connect with mentors in a small group setting. Groups of 3–4 students will each be matched with a mentor based on their research interests and career goals. The mentoring group will meet for an hour during the week of the conference. You will receive an email from one of the Student Affairs Committee (SAC) co-chairs closer to the date of the conference to connect you with your group. It is the responsibility of the mentor to follow up with mentees to schedule the meeting after the email introduction is initiated by an SAC Co-chair.

eBird Competition

This “competition” is open to everybody, and to join you just need to get out birding during the AOS & SCO–SOC 2023 conference (8–12 August 2023) in London, Ontario. Participants will be entered into a drawing to win merchandise, including merchandise from eBird and Birds Canada! Everybody who enters three or more qualifying eBird checklists will be entered into the drawing. Anyone that uploads at least one checklist that contains a breeding evidence code for at least one species, will be entered into the drawing a second time.

The drawing will happen just prior to the closing event, so make sure that your checklists are submitted by noon on 12 August. No need to be present to win, but you will want to be at the closing event because it will be a lot of fun!

All of the checklists submitted by our conference attendees, including media submitted, can be viewed at the “AOS & SCO–SOC 2023 Joint Conference” Trip Report, which you can find here: <https://ebird.org/tripreport/123945>.

Tuesday, 8 August

Student–Early Professional Mixer

Tuesday, 8 August at 3:00 p.m. ET, Ballrooms 3, 6

The Student–Early Professional Mixer is an opportunity for students to connect with early professionals both inside and outside academia in a casual setting. Students and early professionals will be matched in small groups based on their research interests and career goals. The social will follow a student/early-professional-focused workshop on developing your online profile. Panelists from the workshop will be encouraged to attend the mixer, as will meeting keynote speakers, creating additional networking opportunities. You do NOT have to attend the workshop in order to attend the mixer.

AOS Fellows Meeting & Dinner

Tuesday, 8 August

Meeting: 3:30–5:00 p.m. ET, Ballroom 4&5

Dinner: 5:00–6:30 p.m. ET, Ballroom 3&6

The annual meeting of the AOS Fellows will take place at 3:30 p.m. ET on Tuesday, 8 August in the RBC Place London in London, Ontario, Canada. Invitees will receive a separate email with the agenda and other documents soon. Following the Fellows' meeting, there will be a dinner for Fellows and their guests beginning at 5:00 p.m. Tickets are \$75 each and can be purchased through the online AOS Member Portal via the link provided in the invitation email.

Opening Reception (following Keynote Address)

Tuesday, 8 August at 8:00–9:30 p.m. ET, Ballroom Foyer

Join us for a social gathering for light bites and a cash bar (drinks, soft drinks, mocktails) after the Keynote Address.

Wednesday, 9 August

Movie Night: Flyways

Wednesday, 9 August at 8:30 p.m. ET

Cost: Free

RBC Place London, Ballroom 4&5

A screening of the documentary *FLYWAYS: The untold journey of migratory shorebirds* will be held at the conference center. Parts of this movie were filmed in Western University's bird wind tunnel.

Thursday, 10 August

Shorebird Shuffle 5K Fun Walk or Run

Thursday, 10 August at 6:30 a.m. ET

Come join in the fun at our annual 5K walk or run. This year's theme, the "Shorebird Shuffle," will have race shirts featuring a shorebird common across Canada's lakes: the Spotted Sandpiper (*Actitis macularius*). Just like the Spotted Sandpiper, we're looking forward to bopping along the shoreline of London's Thames River with participants of all ages and abilities!

Starting this year, we are working toward designing 5K routes that are more accessible to those with mobility challenges or concerns. While the exact route will be posted to the meeting website soon, we are planning for a route along a multi-use path that minimizes substrate changes and does not require stepping up onto or down off of sidewalks.

In addition to the Meeting Code of Conduct, this event uses city parks and will follow RZone policies. Rzone is a program requiring all persons wishing to visit or use any City of London recreation facility, park or program to respect others and take responsibility in helping the City maintain a positive environment. The "R" zone stands for Respect and Responsibility. Please familiarize yourself with the RZone policy [here](#).

Do you wish to be considered for a finisher prize? Following registration, you will receive a Google Form by email with options to specify your appropriate gender term so that we can have prizes for top finishers using their appropriate gender terms. Everyone's declared gender will be accepted without question. We're looking forward to seeing you at the start line!

Golden Auks Luncheon

Thursday, 10 August at 12:00 p.m. ET (Noon),

The Golden Auks luncheon is an informal catered lunch for senior ornithologists who want to connect with colleagues. Advance ticket purchase (\$25) is required through our conference registration form.

A Wandering Chat: a social mixer for non-academic researchers

Thursday, 10 August at 5:00-6:00 p.m. ET, Ballroom 3&6

Research from outside the academy is an important component of advancing ornithological science and conservation. If you are somebody who has wandered outside of academia for your research career (or are interested in learning more about these career paths), consider joining our community for our inaugural meeting. This is an informal social to build relationships, expand networks, and foster new

collaborations. Snacks and drinks are provided. Registration required through the registration form.

Friday, 11 August

Rainbow Lorikeets Sunrise Social

Friday, 11 August at 6:30-8:00 a.m. ET, Ballroom 3&6

The AOS's Rainbow Lorikeets and our colleagues in SCO-SOC are delighted to host a breakfast social event for 2SLGBTQIA+ attendees and queer-friendly allies. Join us for food, caffeinated beverages, networking, and casual socializing. See our Rainbow Lorikeets – 2SLGBTQIA+ resources page for additional opportunities to get involved and connect during our conference.

Quiz Bowl

Friday, 11 August at 6:30–8:00 p.m. ET, Ballroom 4&5

Join us for everyone's favorite conference event: the Student Affair Committee's annual Quiz Bowl! Grab a couple of friends that share a passion for bird trivia and compete for ornithological glory and the chance to take home great prizes.

Quiz Bowl participants should form a team of three people, and you do not need to sign up in advance. Just show up to the event on time and be ready to come up with the punniest (and safe-for-work) team name you can think of. If you don't have an idea of possible teammates, use that as an icebreaker during the first few days of the conference and to meet some new friends!

The Quiz Bowl consists of two rounds: A fun and hilarious Pub Trivia round followed by a head-to-head matchup of three student teams in a Jeopardy round. Only teams consisting entirely of students (undergraduate or graduate) may enter the Jeopardy round to compete for the top-3 prizes. The three student teams with the highest points after pub trivia will take the Jeopardy stage. Anyone and everyone is welcome to compete in Pub Trivia for the honor of having your team name at the top of the list when the pub round is finished!

The Quiz Bowl is very much a spectator sport. Even if you aren't competing in Jeopardy, stay after Pub Trivia to watch the exciting competition and whisper to your friends about which questions you would have gotten right if you'd been up there.

Whether you join the Quiz Bowl to watch as a spectator, to enter Pub Trivia as a faculty team just to prove to the kids these days that you still have what it takes, or to go for gold on a student team, we hope to see you there!

Saturday, 12 August

Early Professionals Nature Walk

Update 7/12/23: This event has been canceled.

Closing Events

Saturday, 12 August at 6:30–10:00 p.m. ET

Event: Student Presentation Awards, 6:30–7:30 p.m. ET

Event: Storytelling Event, 7:30–8:30 p.m. ET

Event: Social, 8:30–10:00 p.m. ET (last call will be at 9:45 p.m.) Join us for a social gathering for light bites and a cash bar (drinks, soft drinks, mocktails) after the Closing Ceremony events.

Student Presentation Awards and Closing Remarks

Student Presentation Awards and closing remarks, 6:30–7:30 p.m. ET, Ballroom 4&5

Storytelling Event

Saturday, 12 August at 7:30–8:30 p.m. ET

This event will be held as part of the conference Closing Event. Members share stories that present a more holistic, complete rendition of themselves not only as ornithologists, but as people that have fears, struggles, and hopes that are relatable across all walks of life. Stay tuned for more details about this year's storytellers!

Fiddle Music and Conversation

Event: Social, 8:30–10:00 p.m. ET (last call will be at 9:45 p.m.) Ballrooms 2, 3, 6, &7. Join us for a social gathering for light bites and a cash bar (drinks, soft drinks, mocktails) and our final opportunity to visit with old and new friends after the Closing Ceremony events.

Music by:

Shane Cook - Fiddle and guitar

Arlo Quigley - Piano, Whistles, and Uillean pipes

Gem Quigley - Fiddle

Abi Reese - Vocal and Accordion

eBird Competition

Sponsored by eBird and Birds Canada

This “competition” is open to everybody and to join you just need to get out birding during the AOS & SCO–SOC 2023 conference (8–12 August 2023) in London, Ontario. Participants will be entered into a drawing to win merchandise, including merchandise from eBird and Birds Canada! Everybody who enters three or more qualifying eBird checklists will be entered into the drawing. Anyone that uploads at least one checklist that contains a breeding evidence code for at least one species, will be entered into the drawing a second time.

The drawing will happen just prior to the closing event, so make sure that your checklists are submitted by noon on 12 August. No need to be present to win, but you will want to be at the closing event because it will be a lot of fun!

All of the checklists submitted by our conference attendees, including media submitted, can be viewed at the “AOS & SCO–SOC 2023 Joint Conference” Trip Report, which you can find here: <https://ebird.org/tripreport/123945>.

How to enter the eBird drawing:

1. If you don't already have an eBird account, go to eBird and sign up. You might also want to go to the appropriate store for your phone/device and download the eBird app so that you can enter your list in the field as you bird. If you are new to eBird, you can find additional help [here](#).
2. During the conference go out birding at least three times. Submit a complete eBird checklist for each time out. Report all species you could identify by sight or sound and include counts for each species. For a checklist to qualify, it must be complete (see info [here](#)), and must have counts for all species (no X's).
3. In keeping with the spirit of the third Ontario Breeding Bird Atlas underway, we encourage you to add Breeding and Behavior Codes to your checklists. Those who add at least one species with breeding evidence will be entered into the drawing a second time. More information on entering Breeding and Behavior Codes can be found [here](#).
4. **IMPORTANT:** Email your eBird username to yattia@birdscanada.org. You will then receive an invitation to join the conference Trip Report (<https://ebird.org/tripreport/123945>). Allow 24 hours for the Trip Report invitation to arrive. Once you accept the invitation, your eBird lists and media from the conference period will automatically be included in the summary—and appear on the meeting's birding map!

You MUST accept the invitation to join the Trip Report for your checklists to count for the drawing.

5. Everybody who has their name on three or more qualifying checklists will be entered into the drawing for the final prizes, including merchandise from eBird and Birds Canada!

If you have questions about the competition, please contact Yousif Attia (yattia@birdscanada.org).

Sponsors

Thanks to our generous sponsors eBird and Birds Canada/Oiseaux Canada for making this event possible!!!

eBird



Rainbow Lorikeets & 2SLGBTQIA+ Events

The Rainbow Lorikeets formed so that colleagues who identify as lesbian, gay, bi, trans, otherwise queer, and their allies would have a strong voice and representation within the American Ornithological Society (AOS). We provide programming, events, and training to advance this mission and promote a community that supports and includes 2SLGBTQIA+ members.

The AOS's Rainbow Lorikeets and our colleagues in SCO-SOC are dedicated to making this meeting welcoming for all attendees. We are planning on offering name badge pins and/or stickers to showcase 2SLGBTQIA+ diversity among attendees, presenting gender-inclusive categories in the annual 5K Fun Run/Walk, and anonymously pairing queer-identifying students with supportive mentees participating in the student-mentee events. We hope you join us in making the meeting as inclusive as possible!

Roundtable Discussion

Increasing inclusion and belonging for 2SLGBTQIA+ ornithologists

Thursday, 10 August, 12:00 p.m. (ET) (during the lunch break)

Organizers: Sarah Winnicki, Maggie MacPherson, Nicola Koper, Scott Taylor

In this round table, we bring together a panel of queer ornithologists from a range of career stages to answer questions about increasing inclusion of 2SLGBTQIA+ in Ornithology. The primary goal is to discuss the current gaps in representation and opportunity, including specific systemic barriers that 2SLGBTQIA+ students and professionals face and actionable steps that institutions and individuals with power can take to bridge these gaps. Our hope is that queer ornithologists will find belonging through knowledge sharing among fellow queer ornithologists and that allies will gain insight by listening to what queer ornithologists agree are necessary changes required to increase our inclusion in ornithology. Ornithology as a field is beginning to recognize the innovations that can be achieved when diverse voices are welcomed in research, teaching, mentorship, outreach, and conservation. Here, we will strive to understand barriers to inclusion of 2SLGBTQIA+ people in ornithology and evaluate how we can break down those barriers and create new structures that welcome and celebrate diversity.

Rainbow Lorikeets Sunrise Social

Friday, 11 August at 6:30 a.m. ET, Ballroom 3, 6

The AOS's Rainbow Lorikeets and our colleagues in SCO-SOC are delighted to host a breakfast social event for 2SLGBTQIA+ attendees and queer-friendly allies. Join us for food, caffeinated beverages, networking, and casual socializing.

Storytelling Event

Stories of “Birds as Bridges”

Saturday, 12 August from 7:30–8:30 p.m. ET

Please join your friends and colleagues for an evening of laughter, tears, and joy as we listen to four captivating 8–10 minute stories during our Storytelling Event. This year’s storytellers are Anuj Ghimire, Miguel Matta, Sunny Tseng, and Laurel Visscher. We’re looking forward to a wonderful evening!

Our storytellers will share stories that present a more holistic, complete rendition of themselves not only as ornithologists and scientists, but as people who have fears, struggles, and hopes that are relatable across all walks of life. These stories will reflect the diversity of experiences within our ornithological community that express the theme of this year’s conference, “Birds as Bridges.”

Skilled story coaches have been working with our storytellers to help them craft their stories for the stage. The preparation and coaching that our storytellers will receive is a valuable form of professional development that will help them improve their science communication and public speaking skills. Learning the art of storytelling makes science and the people behind it more accessible, inclusive, and relevant for broad audiences.

Keynote Speaker: Gary Pritchard ~Giniw (Golden Eagle)

Tuesday, 8 August, 7:00 p.m.
Ballroom 4, 5

Gary Pritchard ~Giniw (Golden Eagle)

Adjunct professor in the Department of Biology at Carleton University and a Conservation Ecologist and Indigenous Engagement/Placemaking Specialist from Curve Lake First Nation, Ontario



Gary Pritchard ~Giniw (Golden Eagle) is an adjunct professor in the Department of Biology at Carleton University and a Conservation Ecologist and Indigenous Engagement/Placemaking Specialist from Curve Lake First Nation, Ontario. Gary is the owner of the Four Directions of Conservation Consulting Services, and specializes in restoring aquatic systems, and other damaged habitats around Curve Lake First Nation and Hiawatha First Nation. Gary has had the privilege to work on behalf of Indigenous peoples throughout Ontario and Canada. He has traveled and worked in almost 300 Indigenous communities throughout Canada and the northern United States. He brings a wealth of knowledge to both his Indigenous and non-Indigenous clientele performing a wide variety of services including: Indigenous Community Planning, land-use/traditional knowledge studies, Indigenous lead conservation and restoration, Ecological Monitoring using Two-eyed Seeing, Indigenous Place-making, capacity building, expert testimony, mediation between western science and traditional science and subject matter expert on behalf of Indigenous communities. Gary loves to connect and educate people through nature. He does this through several mediums. His favorite way is through his wildlife photography and storytelling. Gary has successfully collaborated with many stakeholder groups, researchers, institutes, government agencies, Indigenous communities, and political organizations to address environmental concerns and identify practical solutions to environmental related issues. He believes that if individuals can form a connection with nature then all people can make conscious decisions on how we impact Mother Earth and the next seven generations.

Plenary Speaker: Dr. Bridget Stutchbury

“Taking flight with a declining migratory songbird: connectivity, carry over effects, and juvenile migration“



Morning Plenary 1: Wednesday, 9 August
Ballroom 4, 5

Dr. Bridget Stutchbury

*Distinguished Research Professor in the
Department of Biology at York University, Toronto*

Dr. Bridget Stutchbury is a Distinguished Research Professor in the Department of Biology at York University, Toronto. She did her M.Sc. at Queen's University, her Ph.D. at Yale and was a postdoctoral fellow at the Smithsonian Institution in Washington, DC. Since the 1980s, she has studied migratory songbirds to understand their behavior, ecology and conservation. Her latest research focuses on tracking the incredible migration journeys of North American songbirds as they travel to the tropics and back, to understand migration strategies, threats on migration, and between-season carry-over effects. She is the author of *Silence of the Songbirds* (2007) and *The Bird Detective* (2010) and was featured in the award-winning 2015 documentary *The Messenger*. She has been a long-serving board member and past-president for Wildlife Preservation Canada whose mission is to save animal species-at-risk from extinction. Dr. Stutchbury was a recipient of the 2022 AOS Elliott Coues Award.

Plenary Speaker: Dr. Keith Hobson

“More ornithological meanderings with stable isotopes: The toolbox just keeps growing ...“



Morning Plenary 1: Thursday, 10 August
Ballroom 4, 5

Dr. Keith Hobson

Senior Research Scientist with Environment and Climate Change Canada

Dr. Keith A. Hobson is a Senior Research Scientist with Environment and Climate Change Canada in Saskatoon, Saskatchewan, since 1992, and is currently affiliated with Western University in London, Ontario, as a professor in Biology since 2015. Among numerous awards, Dr. Hobson is a Fellow of the American Ornithologists' Union (2004; now AOS), the Royal Society of Canada (2013), and the International Ornithologists' Union (2018). He has pioneered the use of naturally occurring stable isotope measurements to investigate the nutritional ecology and movements of migratory birds and insects and has published more than 600 peer-reviewed scientific papers and edited a key textbook (2019, Elsevier) on using stable isotopes to track migratory animals. Dr. Hobson was a recipient of the 2011 AOS Loya and Alden Miller Research Award and the 2010 AOS Katma Award.

AOS 2023 Early Professional Award Winner Plenaries

AOS 2023 Ned K. Johnson Early Investigator Award winner Dr. Sara Lipshutz

“Fighting for fitness: integrating behavioral, hormonal, and genomic perspectives on the evolution of female competition”



Morning Plenary 1: Friday, 11 August
Ballroom 4, 5

Dr. Sara Lipshutz

*Assistant Professor, Loyola University Chicago
Research Associate, Life Sciences, Field Museum
of Natural History*

Dr. Sara Lipshutz studies the evolution of behavior across weird and wonderfully diverse species of birds, focusing on the causes and consequences of female competition. This work bridges “muddy boots” experimental fieldwork with a variety of molecular and computational approaches in genomics, neuroscience, and endocrinology. Dr. Lipshutz is currently an assistant professor at Loyola University Chicago, and previously was an NSF postdoctoral fellow in biology at Indiana University Bloomington and NSF graduate research fellow at the University of Tennessee, Knoxville, and Tulane University. She has been awarded the Mark E. Hauber Outstanding Talk on Animal Behavior Award and Neotropical Ornithology Student Presentation Award from the AOS and North American Ornithological Conference, respectively. In 2015, she was the recipient of the AOS Alexander Wetmore Memorial Student Research Award. Dr. Lipshutz is a winner of the 2023 AOS Ned K. Johnson Early Investigator Award.

AOS 2023 James G. Cooper Early Professional Award winner Dr. Glaucia Del-Rio

“Insights into the speciation process from the most non-model organism ever”



Morning Plenary 1: Saturday, 12 August
Ballroom 4, 5

Dr. Glaucia Del-Rio

*Edward W. Rose Postdoctoral Fellow, Cornell
Laboratory of Ornithology*

Dr. Glaucia Del-Rio currently works as a Rose Postdoctoral Fellow at the Cornell Lab of Ornithology and at the Simões-Costa Lab at the Harvard Medical School, investigating how postzygotic isolation mechanisms might contribute to the formation of the remarkable avian diversity in Amazonia. Upon completion of her postdoc, she will fulfill her dream and become the curator of birds and an assistant professor at the Florida Museum of Natural History, starting in January 2024. She was born in Parque São Lucas, in the outskirts of São Paulo, Brazil. As an undergraduate student at the University of São Paulo, she became an intern at the Museum of Zoology of University of São Paulo in 2008. In 2015, she left Brazil to pursue a Ph.D. at Louisiana State University, where she followed her greatest passion, speciation processes in Amazonian birds. Her research was a deep dive into the genomic mechanisms associated with reproductive barriers in the *Rhegmatorhina hoffmannsi* X *R. berlepschi* hybrid zone. To develop this project, she joined and led several expeditions to Amazonia to collect specimens and DNA samples for museum collections. This effort included the Emilie Snethlage Expedition, for which she gathered a team of nine women to sample a remote area in Amazonia and to raise awareness about gender disparity in field ornithology. Dr. Del-Rio is the winner of a 2023 AOS James G. Cooper Early Professional Award.

AOS 2023 Ned K. Johnson Early Investigator Award winner Dr. Carrie Branch

“Sexual selection, female choice, and cognitive adaptation in a food-caching bird”



Morning Plenary 2: Saturday, 12 August
Ballroom 4, 5

Dr. Carrie Branch
Assistant Professor, University of Western Ontario

Photo by Rob Rombouts, Western University

Dr. Carrie Branch is an assistant professor at the University of Western Ontario (Western University) who is interested in the evolution of communication and cognition in North American chickadees. After receiving her Ph.D. from the University of Nevada Reno (2018), Dr. Branch was awarded an Edward W. Rose Postdoctoral Fellowship at the Cornell Lab of Ornithology and received an inaugural AOS Kessel Research Fellowship in 2020 to support her work on spatial cognition and female mate choice in Mountain Chickadees. She has since served on selection committees for both the Kessel and Rose fellowships. In collaboration with talented scientists, Dr. Branch has made several important contributions to the field of ornithology and animal behavior, garnering interest from national and international news media, including *Science* magazine, *Living Bird* magazine, and BBC One. Most recently, Dr. Branch and colleagues have shown that natural selection acts on the spatial cognitive abilities of food-caching birds—a long-hypothesized assumption that has historically been difficult to show in the wild. Dr. Branch is a productive scientist, having published 40 articles in top journals in her field, including *Ornithology*, *Current Biology*, *Proceedings B*, and *Animal Behaviour*. She is also committed to mentoring students and has involved numerous undergraduate students in her research program (24 total), many of whom have received research grants (five to date) and earned authorship on publications (five to date). She is committed to creating an inclusive classroom and fostering curiosity in the courses she teaches, including Animal Behaviour and Animal Communication. Since beginning her tenure at Western University in July 2022, she has received two research awards, including a Natural Sciences and Engineering Research Council Discovery Grant and a grant from the Canada Foundation for Innovation to establish the Laboratory for Integrative Studies of Avian Communication at Western’s Advanced Facility for Avian Research. Dr. Branch was elected as an AOS Elective Member in 2020. Dr. Branch is a winner of the 2023 AOS Ned K. Johnson Early Investigator Award.

SCO–SOC Early Career Research Award Plenaries

SCO–SOC Early Career Research Award (ECRA) Winner Dr. Leanne Grieves

“Chemical and microbial ecology in birds: Insights from non-model systems”



Morning Plenary 2: Wednesday, 9 August
Ballroom 4, 5

Dr. Leanne Grieves
NSERC Postdoctoral Fellow – McMaster University

Dr. Leanne Grieves' multidisciplinary work focuses on chemical signaling and microbial ecology in birds, overturning 'common knowledge' by establishing that chemical signatures of preen oil convey information about species, sex, reproductive status, disease exposure, and immune genotype. Grieves is a recipient of a Vanier scholarship, Gilles Brassard Prize for Interdisciplinary Research, Royal Society of Canada Alice Wilson Award, and an NSERC postdoctoral fellowship. Grieves has mentored numerous student researchers and chairs SCO–SOC's Equity, Diversity, and Inclusion Committee, spearheading initiatives such as the Student Discovery Award for equity-deserving groups. Dr. Grieves is this year's recipient of the SCO–SOC's Early Career Researcher Award (ECRA).

SCO–SOC Early Career Research Award (ECRA) Winner Dr. Emily Choy

“The direct and indirect effects of Arctic climate change and other anthropogenic stressors to seabirds as sentinels of marine ecosystem health”



Morning Plenary 2: Friday, 11 August
Ballroom 4, 5

Dr. Emily Choy
*Incoming Assistant Professor in Biology at
McMaster University*

Dr. Emily Choy is an incoming Assistant Professor in Biology at McMaster University. Dr. Choy's postdoctoral fellowship (PFD) focused on the effects of climate change on the energetics and thermal biology of seabirds. She is a recipient of the L'Oreal–UNESCO for Women in Science PDF, Garfield-Weston Award for Northern Research, and an NSERC PDF. She is a council member for the Association of Field Ornithologists. She is involved in youth science engagement, initiatives to promote gender equity for the UN Decade of Ocean Science, and #BlackInScience initiatives. She is an Explorer-in-Residence for the Royal Canadian Geographical Society and a Scientific Advisor for The Weston Foundation. Dr. Choy is this year's recipient of the SCO–SOC's Early Career Researcher Award (ECRA).

AOS Senior Professional Awards

William Brewster Memorial Award

The William Brewster Memorial Award is given each year to the author or coauthors of the most meritorious body of work (book, monograph, or series of related papers) on birds of the Western Hemisphere published during the past ten years. This year, the AOS is announcing two Brewster Awards: one to Cristina Yumi Miyaki and one to Maren Vitousek.

Dr. Cristina Yumi Miyaki is a world-renowned phylogeneticist and biogeographer of the neotropical avifauna, including parrots and endemic taxa of the Atlantic Forest region of Brazil. Her body of research is based on molecular genetics and evolutionary analysis of several avian lineages. She is also a broad-scale collaborator on large themes on psittacine evolution, cognition, and conservation genetics. She is a frequent presenter at international conferences and has published more than 140 papers, including those on birds in *Nature Communications*, *Current Biology*, *Proceedings B*, and *Molecular Ecology*. Dr. Miyaki has supervised 17 master's degree students and 12 Ph.D. students and co-supervised two master's degree students and two Ph.D. students. She was elected as an Honorary Fellow of the American Ornithologists' Union (now AOS) in 2005 and was subsequently elected as an Elective Member (2015) and Fellow (2019) of the Society. Dr. Miyaki has also served on the AOS Committee for the Nomination of Fellows and Elective Members. She is a corresponding member of the German Ornithologists Society, and a member of various working groups for the conservation of endangered species for the Brazilian government, a member of the Conservation Genetics Specialist Group for the International Union for Conservation of Nature (IUCN), and a focal point of contact for the Species Survival Commission of the Brazilian IUCN Committee.

Dr. Maren Vitousek is a widely known avian endocrinologist whose integrative work spans behavioral, evolutionary, bioclimatic, physiological, epigenetic, and microbial questions. Working closely with students and postdocs, as well as collaborators beyond her home institution, Dr. Vitousek has worked both in an intensive and long-term local study of Tree Swallows and on several successful and productive continent-wide and thematic projects on avian ecophysiology. She has published more than 70 peer-reviewed articles, including in *PNAS*, *Proceedings B*, *The American Naturalist*, and *Trends in Ecology and Evolution*. Dr. Vitousek has been an AOS Elective Member since 2016 and an AOS Fellow since 2021.

Loye and Alden Miller Research Award

The Loye and Alden Miller Research Award is given annually for lifetime achievement in ornithological research; this year's award is presented to Vicki Friesen.

Dr. Vicki Friesen's distinguished research career has mostly focused on the evolution and conservation genetics of seabirds. With students and colleagues, Dr. Friesen uses novel approaches to examine mechanisms of speciation and tackle complex conservation questions such as the potential for adaptation to rapid environmental change in Arctic seabirds. She is also using a variety of cutting-edge genetic techniques to understand individual and population-level variation in seabird behavior, disease resistance and breeding phenology. Dr. Friesen has published more than 130 peer-reviewed articles including in *Nature*, *PNAS*, *Environmental Science & Technology*, and *Molecular Ecology*, and is a recipient of the Doris Huestis Speirs Award from the Society of Canadian Ornithologists/Société des ornithologues du Canada (SCO-SOC) for her outstanding lifetime contributions to Canadian ornithology. Dr. Friesen has been an AOS Elective Member since 2000 and an AOS Fellow since 2006.

Elliott Coues Award

The Elliott Coues Award recognizes outstanding and innovative contributions to ornithological research with no limitation to geographic area, sub-discipline(s) of ornithology, or the time course over which the work was done. The 2023 Elliott Coues Award is presented jointly to Gregory F. Ball and Jacques Balthazart.

Drs. Gregory F. Ball and Jacques Balthazart have enjoyed a highly productive long-term collaboration since they published their first paper together in 1989. They are well known for their innovative work on avian endocrinology and neurobiology. This includes work on the steroid hormone regulation of sexual behavior in quail and seasonal neuroplasticity in songbirds. They have also investigated sex differences in the avian brain in relation to the control of courtship and other reproductive behaviors. Their basic work on the chemical neuroanatomy of the avian brain has contributed to revised views of avian and mammalian brain homologies. They have published more than 150 papers together among their 300 (Ball) and 500 (Balthazart) total research papers and have co-organized numerous symposia at the International Symposium on Avian Endocrinology meetings and the International Ornithological Congress. Dr. Ball and Dr. Balthazart have both served as president of the Society for Behavioral Neuroendocrinology, and both are Fellows of the American Association for the Advancement of Science (AAAS). Dr. Balthazart received the Farner Medal for distinguished work in Avian Endocrinology (2016) and has been an Honorary Fellow of the AOS since 1985. Dr. Ball has been an AOS Elective Member since 1992 and an AOS Fellow since 2005.

Service Awards

The AOS offers two awards, the Peter R. Stettenheim Service Award and the Marion Jenkinson Service Award, to recognize AOS members who have provided continued, exceptional service to ornithology and to the Society. This year, Scott Lanyon is the recipient of the Peter R. Stettenheim Service Award, and James Rivers is awarded the Marion Jenkinson Service Award.

Peter R. Stettenheim Service Award

Dr. Scott Lanyon has a long history of sustained leadership in the American Ornithologists' Union (AOU) as well as today in the AOS. He has provided exceptional leadership on numerous committees and on the AOS Council for more than 20 years. Notably, Dr. Lanyon served as AOU president during the merger with the Cooper Ornithological Society to form the AOS. In that role he worked to unify disparate views and established a transparent and collaborative tone within leadership, which served as a foundation for developing inclusivity within the society and relevancy to all ornithologists. Dr. Lanyon also played a pivotal leadership role in launching the AOS's strategic planning efforts, helping to clarify and give direction to the society's role in the broader world of professional and amateur ornithology. Today, Dr. Lanyon continues to be involved in strategic planning for the society, helping it move forward to meet the unique challenges and opportunities for ornithology in the 21st century. Dr. Lanyon has been a thoughtful and generous mentor for many early-career ornithologists, working to ensure that all feel welcome in the society. Dr. Lanyon was elected as an AOS Elective Member in 1986 and an AOS Fellow in 1992.

Marion Jenkinson Service Award

Dr. James Rivers has served on numerous AOS committees, starting when he was a graduate student. Most notable is Dr. Rivers' leadership in student affairs, including serving as chair of the Student Affairs Committee shortly after its establishment. His leadership of this Committee led to improved services for students and early professionals, ensuring more impactful meetings (including initiating the very popular Quiz Bowl at our annual meetings), and expanding professional development. Dr. Rivers continued these efforts for several years as an active member of the Early Professionals Committee as well as while serving as an AOS Elective Councilor. In addition to being an enduring advocate for students and early professionals in our society, Dr. Rivers has contributed directly to several AOS conferences, has helped develop new awards to recognize significant contributions, and continues to serve as an associate editor for *Ornithology*. Dr. Rivers also received the 2012 Ned K. Johnson Early Investigator Award and was elected as an AOS Elective Member in 2007 and an AOS Fellow in 2015.

Conservation Awards

The AOS Conservation Awards honor individuals or groups who have made exceptional contributions to conservation through applied research, on-the-ground conservation efforts, education, or partnership building. The Ralph W. Schreiber Conservation Award was initiated in 2005 and the AOS expanded its conservation awards in 2023 with the introduction of the Conservation Practitioner Award. The addition of this new award allows us to recognize a broader range of critical conservation activities, from science to action.

Ralph W. Schreiber Conservation Award

The AOS Schreiber Award honors extraordinary conservation-related scientific contributions by an individual or small team. Contributions from throughout the world and over any time period are eligible for this award, including applied research, restoration, and educational actions that conserve birds or preserve significant bird habitats; scientific examination of the principles of avian conservation and application of new insights into species restoration; and scientific evaluation, guidance, creation, and oversight of avian recovery programs or habitat reserve and restoration programs. The award is named for Ralph Schreiber, a prominent figure in American ornithology known for his enthusiasm, energy, and dedication to research and conservation, particularly of seabirds. The AOS is awarding two Ralph W. Schreiber Awards in 2023, one to Lisa Sorenson and one to Stanley Senner.

Dr. Lisa Sorenson has increased awareness, appreciation, and conservation of the Caribbean region's unique avifauna through research, conservation, and public engagement programs for Caribbean island residents and beyond. Building from her Ph.D. research on the behavioral ecology of White-cheeked Pintails in the Bahamas, Lisa's efforts over 35 years include capacity building; outreach and education; fostering an active network of Caribbean conservationists; and conveyance of conservation methods, community and youth education, and science to Caribbean audiences. Her leadership while vice president and president of the Society for Conservation and Study of Caribbean Birds (now BirdsCaribbean) from 2005–2012, and more recently as its executive director (2012–present), has inspired, motivated, and energized island residents and others to contribute to island conservation efforts. Dr. Sorenson has tremendous skill bringing people together from different island cultures, obtaining funding (>\$3 million since 1997), and encouraging and mentoring many to become involved in bird conservation. Historically, much of the research on island birds was conducted by visitors from North America, often with little local involvement, thus limiting the opportunity for growth of indigenous conservation and capacity. Dr. Sorenson's leadership has helped to overcome challenges in the region by addressing the need to train Caribbean nationals and empower local partners, teachers, and communities to carry out their own science, education, monitoring, and conservation. Since 1997, she has facilitated the delivery of more than 150 international and local training workshops, reaching more than 5,000 people. Dr. Sorenson has been a champion of increasing

appreciation of the region's endemic and migratory birds and the value of nature through the joy and fun of birding and bird education programs. This has, in turn, resulted in greater community engagement in actions to monitor, restore, and conserve threatened species and habitats, and it has yielded more young people pursuing careers in conservation. Dr. Sorenson has received five awards for her work in the region, including a Partners in Flight Leadership Award. She has also authored or co-authored numerous bird education resources, including school curricula and monitoring manuals for the region, as well as publications in peer-reviewed journals. The diverse Caribbean conservation initiatives, programs, and activities initiated, inspired, and facilitated by Dr. Sorenson's leadership include the West Indian Whistling-Duck and Wetlands Conservation Project, BirdSleuth Caribbean, Caribbean Waterbird Census, Caribbean Birding Trail, Caribbean Endemic Bird Festival, Caribbean Seabird Conservation, and Caribbean Landbird Monitoring Network. Dr. Sorenson has been an AOS Elective Member since 1998 and an AOS Fellow since 2011. She helped organize the 2022 joint American Ornithological Society & BirdsCaribbean Conference in San Juan, Puerto Rico, serving on numerous committees.

For the past 45 years, **Mr. Stanley Senner** has contributed his considerable expertise in avian ecology, environmental policy, and strategic conservation by leading flyway-wide initiatives to protect migratory bird populations. As the National Audubon Society's vice president (VP) for bird conservation, Mr. Senner was tasked with working collaboratively with hundreds of conservationists, wildlife and land managers, and policy experts and has achieved notable conservation successes for migratory birds in several global flyways. He brings a unique perspective and diverse skill set to avian conservation gained from years of being at the forefront of conservation issues in the U.S. and internationally. Mr. Senner's career has led him around the country as a leader for many other prominent conservation and governmental organizations, including as director of conservation sciences for Ocean Conservancy, VP and executive director of Audubon Alaska, science coordinator for the Exxon Valdez Oil Spill Trustee Council, restoration program manager for the Alaska Department of Fish and Game, executive director of the Hawk Mountain Sanctuary Association, professional staff member for the Committee on Merchant Marine and Fisheries in the U.S. House of Representatives, and Alaska representative for The Wilderness Society. His work has focused on science and public policy related to energy development and its impacts on wildlife and ecosystems, in particular migratory birds. Over the past decade, in his position as VP for conservation with National Audubon and after retiring from Audubon in June 2021, Mr. Senner has worked tirelessly to develop and advance the Pacific Shorebird Conservation Initiative and to bring attention to the importance and critical status of the saline wetlands and birds that inhabit the Great Basin. Through major efforts by Mr. Senner and others, these often-ignored ecosystems have recently come to the attention of Senate leaders Jeff Merkley (D-Oregon) and Mitt Romney (R-Utah), resulting in the first major conservation funding efforts for these habitats, efforts that should fortify migratory connectivity across the Pacific Flyway. Careful and discreet negotiations among stakeholders, agencies, and policymakers have been the signature approach to complex avian conservation issues that has made Mr. Senner so successful in

achieving the major conservation goals he has tackled throughout his life. Mr. Senner graduated from the University of Alaska Fairbanks with a M.S. in biology in 1977, and he has been a member of the AOS since then. He was elected as an Elective Member in 1990 and an AOS Fellow in 2020 and currently serves on the AOS Conservation Committee. In 1993, he received the Pete Isleib Award for Contributions to Alaska Bird Conservation from the Alaska Bird Conference and, in 2019, the Allan Baker Lifetime Achievement Award in Shorebird Conservation from the Western Hemisphere Shorebird Group.

Conservation Practitioner Award (new in 2023)

The AOS introduced a Conservation Practitioner Award in 2023, which recognizes individuals or groups of biologists at any stage of their career for outstanding work in government agencies (from municipal, state, provincial, federal, or international levels) or nongovernmental organizations to further the conservation of birds. This award acknowledges the planning, on-the-ground, or day-to-day work of dedicated professionals addressing avian conservation issues at a local or regional scale. Jennie Duberstein is the winner of the inaugural AOS Conservation Practitioner Award.

Dr. Jennie Duberstein is the Coordinator of the Sonoran Joint Venture, one of 25 Migratory Bird Joint Ventures (JVs) across North America and one of just two that span the U.S. and Mexico. As the Sonoran JV coordinator, Dr. Duberstein is responsible for partnership-building for birds and habitat conservation across the southwestern U.S. and northwestern Mexico. She has directed environmental education programs, developed community-based conservation projects in the U.S.–Mexico border region, developed and taught courses and workshops on bird identification, ecotourism, and bird monitoring, and studied species including Double-crested Cormorant and wading birds in Sonora and Yellow-billed Cuckoos in Arizona. Dr. Duberstein is a conservation social scientist who has been a leader in advancing equity, diversity, and inclusion in bird conservation. She is also very engaged in education and outreach and has been a long-time camp leader for fledgling young birders, directing field courses, summer camps, and conferences, and generally helping to connect young birders with opportunities and each other.

Publication Awards

Harry R. Painton Award

The AOS Harry R. Painton Award, given in odd-numbered years, is presented to the author of an outstanding paper published in the two preceding years in *Ornithological Applications*. The award was established in 1961, through a bequest from physician and eminent amateur ornithologist Harry Painton; a history of the Painton Award, including winners from 1961 to 1993, was published in *The Condor* in 1994. The 2023 Harry R. Painton Award recipient is Natália Stefanini Da Silveira for her paper, “Future climate change will impact the size and location of breeding and wintering areas of migratory thrushes in South America.” This year, the AOS additionally recognizes two individuals for honorable mention: Rachael W. Herman for her paper, “Age-structured model reveals prolonged immigration is key for colony establishment in Gentoo Penguins,” and Sarah Saunders for her paper, “Bridging the research-implementation gap in avian conservation with translational ecology.”

Dr. Natália Stefanini Da Silveira has a degree in biological sciences from the State University of São Paulo (UNESP), and a master’s degree and doctorate from the postgraduate program in zoology, Institute of Biosciences, UNESP, Rio Claro. In her postgraduate studies, she examined animal movement at different scales—focusing on birds—from regional movements to migrations and the impact of environmental changes on these systems. She is currently a postdoctoral candidate at the Spatial Ecology and Conservation Lab (LEEC; UNESP-RC), and works in partnership with Tropical Water Research Alliance (TWRA) on a project for sustainable development and biodiversity conservation in the Tocantins–Araguaia Hydrographic Basin. In their winning paper, “Future climate change will impact the size and location of breeding and wintering areas of migratory thrushes in South America,” Dr. Da Silveira and her coauthors examined the potential impact of future climate change on migratory thrushes in South America—a region rich in migrating birds whose movement patterns are not well understood. The authors explored how the distribution of breeding and wintering areas in three closely related species of thrushes with different migratory patterns (one short- and two long-distance migrants) change under future climate change scenarios. They predicted declines in the area of future breeding and wintering grounds along with elevational and longitudinal shifts in distribution. Their paper is the first of its kind to describe how climate change may affect migratory birds in South America, showing that impacts will differ depending on where species breed and overwinter.

Citation: Da Silveira, N. S., M. H. Vancine, A. E Jahn, M. A. Pizo, and T. Sobral-Souza, Future climate change will impact the size and location of breeding and wintering areas of migratory thrushes in South America, *Ornithological Applications*, Volume 123, Issue 2, 4 May 2021, duab006, <https://doi.org/10.1093/ornithapp/duab006>

Honorable Mentions (Harry R. Painton Award)

Ms. Rachael W. Herman is a Ph.D. candidate and NASA FINESST fellow in Dr. Heather Lynch's lab in the Department of Ecology and Evolution at Stony Brook University. Her dissertation work focuses on population dynamics of Gentoo Penguins (*Pygoscelis papua*). Using a combination of remote-sensing assets, population modeling, and population genomics, she is investigating how Gentoo Penguins are both increasing in population numbers and expanding their range farther south along the Antarctic Peninsula, and what environmental factors are facilitating these dramatic changes. Ms. Herman has previously been awarded two AOS travel awards to present her research at the American Ornithological Society conferences in 2016 and 2022.

Citation: Herman, R. W., and H. J. Lynch, Age-structured model reveals prolonged immigration is key for colony establishment in Gentoo Penguins, *Ornithological Applications*, Volume 124, Issue 3, 2 August 2022, duac014, <https://doi.org/10.1093/ornithapp/duac014>

Dr. Sarah Saunders is a senior manager of quantitative science at the National Audubon Society and is based out of her home office in Grand Rapids, Michigan. Her work predominantly focuses on the Great Lakes region, where she models occupancy, abundance, and population dynamics of breeding marsh birds, waterbirds, and shorebirds. She also works with Audubon's Climate Watch program data to model how species' occupancy dynamics are shifting with climate change. Dr. Saunders specializes in integrated modeling, including combining different migration data types to estimate migratory connectivity for North American bird species. She has served as a judge for the AOS student presentation awards and now serves on the Student and Postdoc Travel and Presentation Awards Committee. Saunders served as an associate editor for *Ornithological Applications* from 2020–2023. She was elected as an AOS Elective Member in 2022.

Citation: Saunders, S. P., J. X. Wu, E. A. Gow, E. Adams, B. L. Bateman, T. Bayard, S. Beilke, A. A. Dayer, A. M. V. Fournier, K. Fox, P. Heglund, S. B. Lerman, N. L. Michel, E. H. Paxton, Ç. H. Şekercioğlu, M. A. Smith, W. Thogmartin, M. S. Woodrey, and C. van Riper, III. Bridging the research-implementation gap in avian conservation with translational ecology, *Ornithological Applications*, Volume 123, Issue 3, 1 August 2021, duab018, <https://doi.org/10.1093/ornithapp/duab018>

Florence Merriam Bailey Award

The Florence Merriam Bailey Award—named for the first woman “associate” of the American Ornithologists’ Union (AOU) in 1885, who was also the first woman elected as a Fellow of the AOU in 1929—recognizes an outstanding article published in

Ornithology (odd-numbered years) or in *Ornithological Applications* (even-numbered years) by an early-career AOS member. The 2023 recipient of the Florence Merriam Bailey Award is Allison E. Huysman for her paper, “Strong migratory connectivity indicates Willets need subspecies-specific conservation strategies.”

Ms. Allison E. Huysman earned her B.S. in natural resources and animal science from Cornell University and her M.S. in natural resources: wildlife from Cal Poly Humboldt. Her M.S. research focused on the potential for Barn Owls to provide rodent pest control in vineyards. Since finishing her M.S., she has worked at the Smithsonian Migratory Bird Center where she is contributing to research on migratory connectivity for North American birds.

In this winning paper, “Strong migratory connectivity indicates Willets need subspecies-specific conservation strategies,” Ms. Huysman and her coauthors quantified migratory connectivity between breeding and nonbreeding areas in Willets at both the range-wide and subspecies levels. They consolidated tracking and banding data and characterized breeding and wintering areas for western and eastern Willets. The authors found strong migratory connectivity between breeding and nonbreeding areas, allowing them to identify threats such as impacts from climate change and anthropogenic development in both subspecies and an additional threat from harvest in the eastern subspecies. The authors recommend that conservation efforts for Willets entail managing by subspecies and protecting a variety of breeding and nonbreeding habitats.

Citation: Huysman, A. E., N. W. Cooper, J. A. Smith, S. M. Haig, S. A. Heath, L. Johnson, E. Olson, K. Regan, J. K. Wilson, and P. P. Marra, Strong migratory connectivity indicates Willets need subspecies-specific conservation strategies, *Ornithological Applications*, Volume 124, Issue 3, 2 August 2022, duac015, <https://doi.org/10.1093/ornithapp/duac015>

SCO-SOC 2023 Award Winners

SCO-SOC 2023 Taverner Award winner	Sarah Mueller
SCO-SOC 2023 Taverner Award winner	Taylor Brown
SCO-SOC 2023 Cooke Award winner	Karen Ong
SCO-SOC 2023 Student Discovery Award winner	Rebecca Jardin
SCO-SOC 2023 Baillie Award winner	Alyssa Eby

Travel Awards

Kara Lefevre	Taylor Coon
Estefania Muñoz Salas	Christian Cortez
Mariamercedes Antezana Aponte	Miguel Costas-Sabatier
Tarun Menon	Amanda Crandall
Miguel Jimenez	Sandra Cuadros
Kristin Hardy	Emma Cummings
Chandler Carr	Vianney Janice Cupiche Herrera
Marcella Baiz	Rachel Darling
Ty Sharow	Rebecca Davenport
Anya Auerbach	August Davidson-Onsgard
Alejandro Chavez Trevino	Kayla Davis
Jordan Ellison	Devin de Zwaan
Cindy Barreto	Sarah Deckel
Elizabeth Meisman	Devon DeRaad
Ximena Moura	Joely DeSimone
Joseph Curti	Ana Maria Diaz
Miguel Matta	Rachael DiSciullo
Maria Cecilia Estalles	Colin Dobson
Nuwanthika Perera	Jonah Dominguez
Prashant Ghimire	Jorge Doña
Yuting Deng	Emily Donahue
Belen Bukowski	Wendy Dorman
Dinesh Bhusal	Bryant Dossman
Pablo Andres Fracas	Megan Duchesne
Annika Abbott	Brandon Edwards
Michael Bode Agunbiade	Sarah Endenburg
Jonah Alderson	Jessica Espinosa
Alejandra Arana	Sarah Fensore
Gabrielle Armstrong	Emily Filiberti
Sarah Beres	Jillian Fisher
Liam Berigan	Kelsey Freitag
Alexandra Best	Michael Gamble
Lindsay Biehler	Julian Garcia Walther
Jenna Brewer	Shelby Green
Paige Brewer	Asha Grewal
Jennifer Brown	Emily Griffith
Katherine Carbeck	Julian Grudens
Kayla Caruso	Benjamin Hack
Mac Chamberlain	Virginia Halterman
Stephanie Chia	Biyoa Han
Ivy Ciaburri	Haley Haradon
Alexandra Cones	Victoria Hartley-Cox

Kristen Hobbs
Triana Hohn
Lis Hurtado
Anja Hutschenreiter
Todd Jones
Tharindu Kalukapuge
Parmeet Kaur
Karla Kelly
Tosha Kelly
Haley Kenyon
Mark Kerstens
Simon Klacz
Abigail Kimmitt
Shannon Kitchen
Zoe Korpi
Gunnar Kramer
Ananke Krishnan
Shelby Lawson
Gabriella Lindsey
Alfredo Llamas
Sasha MacArthur
Maria MacIvor
Thilini Maddegamgoda Lekam
Anastasia Madsen
Fawn Maika
Katherine Marthens
Kayla Martin
Alix Matthews
Kelly Miller
Kyana Montoya
Andrea Morales Rozo
Esther Morales-Vega
Sarah Mueller
Frank Muzio
Pat Nancekivell
Ashley Olah
Caitlyn Oliver Brown
Clémence Olson-Brissaud
Gabriella Orfanides
Shelby Palmer
Hannah Partridge
Ajay Patel
Teresa Pegan
Weston Perrine
Maia Persche
Brooke Poplin
Kaiya Provost
Francisco Puente Guevara
Lauren Puleo
Nancy Raginski
Shuqi Ren
Emma Rhodes
Garrett Rhyne
Fanny Riand
Isabella Ricchetti
Bernadette Rigley
Pearl Rivers
Patricia Rodrigues
Citali Yamali
Elizabeth Rogers
Anna Rose
Ethan Royal
Natalie V. Sánchez
Alyssa Sargent
Matthew Scerbicke
Shailee Shah
Elsie Shogren
Victoria Simons
Larissa Simulik
Noriko Smallwood
Shawn Smith
Olivia Smith
Jared Sonnleitner
Daria Sparks
Keegan Stansberry
Eliza Stein
Alva Strand
Nicole Suckow
Madeline Sudnick
Jeremy Summers
Stephanie Szarmach
Oona Takano
Trixie Taucher
Olivia Taylor
Braeden Thomson
Kellee toler
Varly Trebac
Maria Camila Triana
Brian Tsuru
Abigail Turner
Shae Turner
Stella Uiterwaal

Francisco Vega Reyes
Ben Vernasco
Juliana Villa
Stefanny Villagomez
Kristen Wacker
Olivia Wang
Tatjana Washington
Alyssa Wells

Marae West
Lauren Whitenack
Jessie Williamson
Olivia Wilson
Grant Witynski
Madeline Ybarra

Caregiver Grant Awards

Kristen Covino
Scott Yanko
Andrew Stillman
Tricia Van Laar
Marae West

Roundtable discussions

Perspectives on birding and ornithology from the deaf and hard of hearing

Wednesday, 9 August, 12:00 p.m. (noon) (a boxed lunch is available for pre-order for this roundtable; see details below)

Organizers: Lyn Brown, Jacob Drucker, Stephanie Gaspar, Prashant Ghimire, Maina Handmaker, Tara Rodkey, José Ramírez-Garofalo, Kristen Rosamond, Alma Schrage, Tatjana Washington

Audience & Participation: Hearing ornithologists from undergraduates to established career professionals. If there are any deaf or hard of hearing attendants at the conference, this may also help inspire them to continue on their own ornithological journeys. Our aim is to have panelists at different career stages who use different modes of communication (ASL, oral speech, etc.), and come from different backgrounds with varying associations with the deaf community (identify as culturally Deaf to feeling isolated from the deaf community).

One in 20 Americans are deaf or hard of hearing, and more than 90% of deaf children are born to hearing parents. Deafness can be an isolating experience. Barriers including stereotypes and limited access to participation may preclude professional and educational opportunities for deaf youth. Hosting a panel of deaf birders to share their experiences can showcase deaf engagement in ornithology for the wider ornithological community. By bringing awareness about deaf birders, this may promote conversations about increasing deaf accessibility and inclusion at our professional meetings. In the long term, providing exposure to deaf ornithologists may encourage deaf youth to pursue ornithology. Deaf ornithologists provide role models that deaf youth can relate to because of shared lived experiences. Ultimately more deaf youth entering ornithology can enrich the ornithological community, and rewrite the narrative of what a birder looks like.

Boxed lunch add-on option: If you are planning to attend this roundtable, you now have an option to purchase a boxed lunch (\$22; includes meat; gluten-free meat; vegan/vegetarian; or gluten-free vegan/vegetarian options). You can purchase your boxed lunch directly in the registration portal. Purchased lunches will be available for pick up beginning an hour before the event. The boxed lunch is an add-on only and entirely optional. You may skip this option if you plan to attend the roundtable but do not want to purchase lunch. No additional sign-up or RSVP is required to attend this roundtable beyond your primary conference registration. Please follow the same instructions for adding workshops or other events to a previous registration. The boxed lunch will show up as an option on the same screen alongside the workshops and other add-on events. Note: RBC Place London requires that a minimum of 25 lunches be purchased by the deadline of August 2nd in order to offer this service. We will refund orders and inform purchasers if we fall short of this minimum.

Recovering Birds at the Tipping Point, Advancing the Road to Recovery

Wednesday, 9 August, 5:00 p.m.

Organizers: Humberto Berlanga, Ashley Dayer, Peter Marra

Peter Marra with godwit. Photo by Tim Romano. Click Image to view larger.

Audience & Participation: Scientists and conservationists. The panel consists of ornithologists and social scientists from different sectors from across North America working to conserve a variety of species that are in various stages of understanding of the life cycles, limiting factors, recovery, and human dimensions.

The Road to Recovery (R2R) formed to address the dire findings from the 3 Billion Birds Lost paper published in Science in 2019. The effort is advancing a simultaneous integration of biological and social science targeted at identifying and addressing specific causes of declines. Starting with a set of Tipping Point species, R2R supports species-focused teams and projects. We work collectively with scientists, conservation practitioners, and communities to create pathways to recover bird populations. R2R uses our shared birds as the currency to work together across the Western Hemisphere to recover species. Our partnerships need to be international. The Road to Recovery process is built on a commitment to science co-production among social and biological scientists, conservation decision-makers, impacted communities, and affected parties. By working to identify limiting factors, design strategies to address causes of decline, implement conservation actions, and monitoring success, the R2R community seeks to eliminate the research-to-implementation gap. The panel will discuss how a species-centric approach embedded in a large landscape/habitat conservation approach can change the trajectory of bird populations. The panel will explore ways to consider how our understanding of the human dimensions can integrate with the biological information to achieve a more successful conservation outcome.

Increasing inclusion and belonging for 2SLGBTQIA+ ornithologists

Thursday, 10 August, 12:00 p.m. (noon)

Organizers: Sarah Winnicki, Maggie MacPherson, Nicola Koper, Scott Taylor

Audience & Participation: Allies committed to increasing inclusion and belonging in ornithology and 2SLGBTQIA+ individuals of all career stages looking to learn more about the diversity within the community and get advice from other queer individuals in the field. The volunteers for the panel represent diverse academic career stages (PhD candidate, postdoctoral fellow, assistant professor, tenured faculty), career types (including academics and non-academic researchers), diverse 2SLGBTQIA+ identities, and currently reside in the U.S. or Canada.

In this round table, we bring together a panel of queer ornithologists from a range of career stages to answer questions about increasing inclusion of 2SLGBTQIA+ in Ornithology. The primary goal is to discuss the current gaps in representation and opportunity, including specific systemic barriers that 2SLGBTQIA+ students and professionals face and actionable steps that institutions and individuals with power can take to bridge these gaps. Our hope is that queer ornithologists will find belonging through knowledge sharing among fellow queer ornithologists and that allies will gain insight by listening to what queer ornithologists agree are necessary changes required to increase our inclusion in ornithology. Ornithology as a field is beginning to recognize the innovations that can be achieved when diverse voices are welcomed in research, teaching, mentorship, outreach, and conservation. Here, we will strive to understand barriers to inclusion of 2SLGBTQIA+ people in ornithology and evaluate how we can break down those barriers and create new structures that welcome and celebrate diversity.

Identifying unifying processes and terminology in juvenile life-stage nomenclature

Thursday, 10 August, 12:00 p.m. (noon)

Organizers: Todd Jones, Scott Sillett, Wesley Hochachka, Sara Kaiser

Illustrator, Vera Ting, and the Bartels Science Illustration Program at Cornell Lab of Ornithology. [Click Image to view larger](#).

Audience & Participation: Students and professionals studying juvenile life stages and general life histories of birds, but also the larger ornithological community, as this terminology is fundamental to any teaching and research that touches on juvenile life stages of birds. We plan to facilitate a broader discussion with invited participants capable of carrying discussions forward, but also deliberately not filling time with planned presentations by panelists. We will reach out to professionals at different career stages from both academia and government agencies, with diverse backgrounds and who work on species across the altricial-precocial spectrum and to students and professionals that study and monitor birds from underrepresented regions and taxa, especially species from the subtropics and tropics.

While altricial and precocial birds share many parallels across their ontogenies, there are also developmental and behavioral differences. These differences have led to the use of different terminology, with studies of altricial species generally defining fledging as the act of nest leaving, while precocial studies define it as the point at which young can first sustain flight. Inconsistency in the definition of fledging also affects the definition of the post-fledging period and leads to difficulties and confusion when comparing species across the altricial-precocial spectrum. We argue that these differences in juvenile life-stage nomenclature have led to a disconnect between studies in the two systems. For example, post-fledging studies on altricial birds rarely cite

studies on precocial young, and vice versa. In this roundtable, we raise the question of where similarities in life histories allow for a unified terminology to be established, with the goal of facilitating a broader understanding of life histories across the altricial-precocial spectrum. To help answer this question, we will compare and contrast terminology used to describe juvenile life stages across different avian life histories, and highlight unusual breeding strategies that may challenge past nomenclature. We aim to publish outcomes of this discussion through a perspectives article, which we hope will move avian research toward using a more standardized terminology on juvenile life stages.

Bird Name-a-thon: Categorizing birds names using crowdsourcing

Friday, 11 August, 12:00 p.m. (noon)

Organizers: Erin Morrison, Allison Shultz

Audience & Participation: All members of the ornithology community are welcome. The panelists are all volunteer contributors to the project's data collection and will be able to address their experiences as participants and why they were interested in contributing to the project. Many of the contributors to this project were not professional ornithologists, but we think their experiences learning about birds by participating in the project is important to highlight as part of this roundtable. This project is a demonstration for how to make science research more accessible and we want to spotlight these participants as part of the roundtable.

In ornithology, in addition to having scientific names, bird species also have official language-specific common names. These common names provide a more accessible way to communicate about species to a broader range of people outside of professional scientists. Recent movements calling for renaming species named after people have resulted in increased thought and scrutiny about common bird names. For example, people have begun to question the extent to which these recognized names communicate identifiable characteristics about species. Addressing this issue presented a unique opportunity to develop a crowdsourced research project involving remote data collection by 85 participants from within and outside of the ornithology community, including 50 undergraduate students in a non-majors biology course. Over the span of 2 weeks, participants classified, in duplicate, unique descriptors in the English names of the 10,906 species in the 2022 eBird checklist into one of ten general categories. Participants who began without any ornithology knowledge had a chance to learn about avian biology, discuss the meanings behind terminology with experts in the field, and become eligible for co-authorship on a research publication. In this roundtable, the organizers and panelists that participated in the project will present results and reflections from the data collection. The audience will be invited to provide feedback on potential next steps for the data.

Solutions-oriented avian conservation research

Friday, 11 August, 12:00 p.m. (noon)

Organizers: Rachel Buxton, Miguel Jimenez

Audience & Participation: Non-government organizations, grassroots organizations, policy makers, conservation practitioners, researchers. We will bring together practitioners, policy makers, and researchers from a diversity of perspectives (including BIPOC) to explore models of successful solutions-oriented bird conservation research.

Scientific knowledge is vital for identifying threats and conservation strategies. However, alone it is often insufficient to make changes needed to solve environmental problems. As action becomes increasingly urgent, solutions-oriented research that connects organizations to curb species declines while delivering socially equitable outcomes is of the utmost importance. Despite a growing body of research, avian populations continue to decline across North America. Yet, birds are charismatic indicator species that can serve as models for developing actionable conservation science. Bird conservation efforts (e.g., habitat restoration, invasive species control, bird-friendly infrastructure) have known benefits. Birds are also an effective vehicle for broadening conservation leadership: media events (#BlackBirdersWeek) can increase visibility of a diversity of conservationists and Guardian Programs foster Indigenous autonomy in protecting birds. There are a growing number of initiatives connecting practitioners, policy-makers, Indigenous leaders, and researchers to develop comprehensive strategies to protect birds. In discussing this work, we will explore mechanisms by which research can contribute to mobilizing inclusive action for bird conservation and identify knowledge gaps for more effective conservation initiatives. Ultimately, we aim to create a publication highlighting ways to translate the huge amount of ornithology research effort into real-world benefits for birds.

Workshops and Training Opportunities

The workshops and training sessions at AOS & SCO–SOC 2023 offer opportunities both for hands-on learning exercises, where participants engage in a mix of lectures and activities, and for panel discussions on a wide range of timely topics highlighting exciting advances in ornithological research, management, social justice, education, and conservation.

All workshops are scheduled for Tuesday, 8 August 2023.

If you have any questions, please email meeting@americanornithology.org.

bbsBayes2 – An updated and improved R package for customized analyses of North American Breeding Bird Survey data

Tuesday, 8 August, 8:00–11:00 a.m. ET

Instructors: Adam C. Smith (Canadian Wildlife Service, Environment and Climate Change Canada), Brandon Edwards (Carleton University), Steffi LaZerte (Brandon University)

bbsBayes2 is a fully-rebuilt R package (replacing bbsBayes), for fitting the hierarchical Bayesian models used to estimate status and trends from the North American Breeding Bird Survey. This new package provides improved parameter estimation using Stan, spatially explicit models well suited to exploring spatial patterns in trends, a streamlined workflow, the ability to use custom stratifications, and advanced functions to assist with cross-validation and model comparisons. Participants will be supplied with the necessary materials to follow along with the live coding, getting hands-on experience manipulating and visualizing output from a range of models and species. The instructors will demonstrate the packages functions, and answer questions, and the participants will learn how to: 1) download raw BBS data (including data from previous years); 2) prepare the data for modeling; 3) choose from a suite of built-in hierarchical Bayesian models and access tools to help with cross-validation and model comparison; 4) estimate trends for any time period (1970–2019, 2005–2015, 1980–2000, etc.) and plot population trajectories; 5) generate heat maps of population trends; 6) estimate trends for customized regions (e.g., all of the eastern Boreal, Great Plains versus eastern populations of grassland birds); and 7) access and customize the main Stan models to change priors or add covariates (e.g., annual climate metrics or landcover).

Detectability offsets to combine survey data from independent bird studies

Tuesday, 8 August, 8:00–11:00 a.m. ET

Instructors: Lionel F. V. Leston (University of Alberta Department of Biological Sciences), Elly C. Knight (Boreal Avian Modelling Project)

There is a growing body of thousands of bird surveys, including community science observations (e.g., eBird), independent short-term studies, long term monitoring programs (e.g., North American Breeding Bird Survey), and acoustic data collected with autonomous recording units (ARUs). Integrating survey data from independent studies across multiple decades enables the development of species distribution models over large spatial and temporal extents. However, seasonal and daily timing of surveys, survey methods, habitat surrounding surveys, and characteristics of species' vocalizations all affect the probability of detecting individual birds. The Boreal Avian Modelling Project developed methods for calculating statistical offsets in R (i.e., the "QPAD" method), which account for these influences on detectability. Since 2018, these offsets can be used in many model types to integrate survey data from independent studies in the same analysis. Predictions from models with QPAD offsets consist of densities (males / ha), enabling population estimation. The code has been updated to account for additional factors affecting detection of species, including increased detectability of passive acoustic monitoring. We will introduce participants to the basic theory of QPAD and statistical offsets and show how to calculate those offsets and apply them in statistical analyses. Participants will gain an appreciation for the power of data integration and tools to apply it in their own work.

Integrated Population Models

Tuesday, 8 August, Time 8:00 a.m.–5:00 p.m. ET

Instructor: Todd W. Arnold (University of Minnesota)

The workshop will begin with a short lecture on the potential benefits of integrated population modeling (IPMs), with a very brief overview of Bayesian analysis using JAGS through program R. Three short sections will focus on the most common components of integrated population models for birds: 1) abundance data (e.g. time series of BBS or other count data), 2) fecundity estimates from nest-monitoring or age ratios, and 3) survival estimates from mark-recapture or band-recovery data. Each of these sections will consist of ~15 minutes of PowerPoint presentation followed immediately by hands-on demonstrations of data analysis in JAGS. Participants will be provided with working code that demonstrates increasingly sophisticated approaches for analyzing real-world data, including more examples than we can possibly work through. Code is designed to be adaptable and flexible to accommodate typical data sets that participants are likely to have access to. Even if participants never work with IPMs, Bayesian approaches to component data sets should prove very useful. The final section, on constructing integrated population models, is actually a bit anticlimactic

because it involves fairly simple consolidation of two or more sub-models, but we will use the final section to focus on assumptions, tips, pitfalls, and best practices for developing and interpreting IPMs.

Career opportunities in the Wildlife Service: What do students and early career professionals really need to know to succeed?

Tuesday, 8 August, 8:30–11:00 a.m. ET

Instructors: J. Ryan Zimmerling (Canadian Wildlife Service), Natalie Savoie (Canadian Wildlife Service)

This workshop will focus on providing students and early career professionals with the knowledge to decide whether they wish to pursue a career with the Wildlife Service and what they need to know to succeed. The workshop will be facilitated by current hiring managers in the Wildlife Service and include an overview and history of the Wildlife Service, the types of careers that exist within the Service, where to find job postings, and advice on how to fill out online job applications. Information will also be provided on how to prepare for and succeed in the written exams and interviews. Advice on what hiring managers are looking for and what pitfalls to avoid will also be shared during this workshop. Finally, participants will be provided with information about the post-job application process, as well as advice at the start of a new career. A significant amount of time will be dedicated for a Q&A session at the end.

Using Bioacoustics as a Valuable Research Tool

Tuesday, 8 August, 9:00–10:30 a.m. ET

Instructor: Alexandra Donargo (Wildlife Acoustics)

Unattended acoustic recorders provide a non-invasive and cost-effective technique to assess species presence within a region. Acoustic recordings can help determine population trends, find unknown colonies, and answer other research questions to support conservation efforts. This hands-on workshop will teach participants the features and configuration options of the Song Meter SM4, Song Meter Mini recorders and Song Meter Micro recorders. We will cover all aspects of preparing the recorders for deployment. We will go into detail regarding audio settings and cover all the technical aspects you need to know about your Song Meter SM4, Song Meter Mini or Song Meter Micro recorder to ensure a successful deployment. Time permitting, we will also discuss the free and paid versions of our Kaleidoscope software which allows for efficient analysis of acoustic data.

Strengthening diversity, equity, inclusion and accessibility in ornithology: Are we there yet?

Tuesday, 8 August, 9:00 –11:00 a.m. ET

Instructors: Environment for the Americas staff: Sheylda Díaz-Méndez, Carina Ruiz, Shanelle Thevarajah, Miguel Matta, Interns representative

We will explore the topic of Diversity, equity, inclusion and accessibility in Ornithology from recruitment to retention in conservation programs. The team will share our successful methods in a welcoming environment and invite attendees to contribute theirs. This session will address the needs of underrepresented college students, international professionals and early career professionals among others, including barriers presented in an engaging way while recommending successful ways to diversify a lab, field crew, work place, students, and more. Most of the information provided will be through the results of our research on intern recruitment, barriers to participating in field research experiences, as well as our experience in our workplace and our experience supporting interns who seek inclusive opportunities.

Our sessions will include the DEI&A lens, Engaging Culturally, Ethnically, and Racially Diverse interns, Successful Internships for a Neurodivergent Intern, Out of Country: Involving local expertise and building capacity, LGBTQ+ and in the Field, Small steps toward inclusion: 10 tips from our interns on successful inclusivity, Recognizing and addressing oppression in the sciences. and How to include and recognize the work of ornithologists based in the Neotropics. Sessions will consist of presenters, activities and one-on-one discussion of cases with participants.

North American Ornithological Atlas Committee (NORAC) 2023 Workshop

Tuesday, 8 August, 9:00 a.m.–4:00 p.m. ET

Instructors: Julie Hart (New York Breeding Bird Atlas Coordinator), Gabriel Foley (Maryland & DC Breeding Bird Atlas Coordinator)

Since 1987, the North American Ornithological Atlas Committee (NORAC) has been holding a workshop every two to four years at AOS and/or NAOC meetings. However, the last meeting was seven years ago at NAOC-VI. Since then, significant changes have occurred in atlas methodology, related to changes in scale and precision made available by platforms like eBird and NatureCounts. As a result, NORAC held a virtual meeting series in early 2023 to discuss short-term methods, priorities, and goals for modern atlases. Coming from that is strong demand for an in-person format to discuss long-term atlas goals, strategies, and priorities. These discussions will help further standardize bird atlas data collection and improve the accessibility and flexibility of one of North America's largest-scale and highest-precision community science datasets. The AOS meeting provides a platform for this strategic planning and establishing future partnerships since many target audience members will already be attending the

meeting. Moreover, this event provides an opportunity to collaborate and train atlas coordinators and researchers. Participants will leave with an improved understanding of where atlas projects are headed, how to analyze atlas data, and how datasets can be used to influence conservation more effectively.

Developing your professional online profile

Tuesday, 8 August, Time 1:00–3:00 p.m. ET

Instructors: Nandadevi Cortes (Ithaca College), Jared Elmore (Clemson University and National Bobwhite and Grasslands Initiative), Danielle Ethier (Birds Canada), Sarah Gutowsky (Acadia University and Ducks Unlimited Canada), Jennifer Houtz (Cornell University), Steffi LaZerte (Brandon University), Lan-Nhi Phung (Penn State University), Natalie V. Sánchez (University of Windsor and Dry Forest Conservation Fund)

The workshop will consist of short presentations by experienced users including fellow students and early career professionals with strong online presence. Participants will then “break out” into smaller groups where they can discuss elements of their online presence (e.g., website, Google Scholar, LinkedIn) with each expert. Our particular focus is on exposing participants to a diverse range of online platforms for building professional online profiles, catered to their career stream of interest. Participants will have the opportunity to learn tips and tricks on various aspects of one’s online profile with the goal of each participant taking home an individualized plan for shaping their online presence.

Specifically, by the end of this workshop, participants will:

- appreciate the value of a consistent and informative online profile
- appreciate which social media outlets are valuable for professionals and different career streams
- be aware of the various website-building platforms available
- have a list of resources for creating websites
- have workshopped a draft biography to put on these sites
- have received feedback on a profile or website

Congrats on installing Motus stations...now what? Maintenance, data collection, and Troubleshooting tips for Motus Wildlife Tracking Stations

Tuesday, 8 August, 1:00–3:00 p.m. ET

Instructors: Todd Alleger (Northeast Motus Collaborator), Lucas Berrigan (Birds Canada), Alison Fetterman (WCT, Northeast Motus Collaborator), Jon Rice (Carnegie

Museum of Natural History), Mallory Sarver (Carnegie Museum of Natural History), Aaron Coolman (WCT, Northeast Motus Collaboration)

The Motus Wildlife Tracking System has revolutionized how we record animal movements in nature using miniaturized VHF radio telemetry technology involving tiny digitally coded transmitters coupled with a rapidly expanding network of automated receiver stations (ARS). This workshop is aimed towards those who have or will soon install Motus automated receiving stations. We will demonstrate how to streamline maintenance and troubleshoot common problems with ARS. Our discussions will focus on the following: 1) ARS maintenance monitoring mapping tools (using Esri and Google ecosystems), 2) general station maintenance protocol and resources, and 3) troubleshooting tips. In addition, now that the station is running, how do we explore, manage, and begin to analyze the data collected? Our discussion of project planning strategy includes creative ways to support maintenance and data management fees of your stations into the future. Participants will leave with an understanding of how to sustain their ARS network maintenance and data collection for the benefit of all who use the WTS network.

Quality filtering SNP datasets using R

Tuesday, 8 August, 1:00–4:00 p.m. ET

Instructor: Devon A. DeRaad (University of Kansas)

Objectives 1. Offer a networking opportunity for participants to meet colleagues who are also analyzing DNA sequence data and asking evolutionary genomics questions. 2. Facilitate hands-on experience analyzing SNP data for all participants. 3. Advanced participants can leave with a fully documented SNP filtering pipeline including optimized filtering parameters for a real dataset that they intend to eventually publish.

Proposed structure:

9:00-9:15AM Group introductions, which serve as an ice-breaker, plus a networking opportunity for participants (achieves objective 1).

9:15-9:45AM Introduction to the workshop (short lecture, topics covered: Next-gen sequencing, sources of biological and technical error in DNA sequence data, genotype calling approaches, introduction to RStudio and RMarkdown, and introduction to the R packages vcfR and SNPfiltR).

9:45-10:15AM Participants work on the pre-designed SNP filtering tutorial (achieves objective 2).

10:15-10:30AM Break for coffee & snacks.

10:30-12:00PM 90-minute bio-informatics working session for participants to continue following the SNP filtering tutorial.

I will be constantly walking around the classroom offering support to the participants, which could range from trouble-shooting R package installations, to offering advice

about how to implement optimal filtering thresholds or discussing the nuances of individual participants' empirical datasets. Participants who finish the SNP filtering tutorial will be provided additional resources showing how to use their filtered datasets as input for downstream population genetic and phylogenetic analyses (achieves objective 3). This workshop is designed to be self-paced so that participants can gain relevant skills regardless of their experience level. Participants will be encouraged to bring a SNP dataset that they are currently working on or use an example dataset that I will provide. During the hands-on session, less experienced participants may spend time installing appropriate R packages and reconstructing a standard filtering pipeline using the example data. Meanwhile, more experienced individuals may bring their own empirical SNP dataset, design a custom filtering pipeline based on the nuances of their data, and begin using the resulting quality filtered SNP dataset as input for downstream analyses. I will cater to the entire range of experience levels by thoroughly documenting all workshop materials, including a detailed tutorial for participants to follow, in a publicly available GitHub repository (e.g., <https://github.com/DevonDeRaad/Fall.2022.RAD.workshop>). Because these materials will be permanently archived, participants will be able to reinforce the new material they engage with during the workshop at any time in the future, extending the value of the workshop beyond a single stand-alone session.

Applying the Bird Migration Explorer for Education, Research, and Conservation

Tuesday, 8 August, 1:00–4:00 p.m. ET

Instructors: Melanie A. Smith (National Audubon Society), Jill L. Deppe (National Audubon Society), Nathaniel E. Seavy (National Audubon Society), Chad J. Witko (National Audubon Society)

Migratory birds connect all of us across the hemisphere by bridging across places and cultures. The Bird Migration Explorer is an interactive platform that combines different types of migration science to visualize the journeys of more than 450 North American migratory bird species. It was produced by Audubon with nine partner organizations and hundreds of researchers from across the globe. The Bird Migration Explorer helps users understand the full annual cycle of migratory species and connectivity among locations, as well as gaps in scientific knowledge. And by combining the footprint of human activities and environmental changes with weekly bird distribution, the Explorer visualizes patterns of where, when, and how extensively birds are exposed to challenges.

This workshop will train users on how to navigate the Explorer and interpret the data and maps. We will present use cases for potential applications in education, research, conservation, and advocacy. Participants will come with ideas for ways the Explorer could be used in their work and these will be workshopped with the instructors in smaller breakout groups. Finally, participants will be asked to contribute input on what additional features would assist in their work in future development of the Explorer.

Symposia

Automating ornithology: Advances in avian ecology through automated radio telemetry

Organizers: Nathan W. Cooper, Bryant C. Dossman, Stuart Mackenzie, Adam D. Smith, Christopher M. Tonra, Scott W. Yanco

Thursday, 10 August, 10:30 a.m. ET

This year marks the 10-year anniversary of the deployment of the Motus Wildlife Tracking System. By unlocking the ability to track small birds at both local and continental scales, the Motus network, and smaller independent telemetry networks, have transformative potential to advance our understanding of avian ecology. This symposium will bring together a diverse group of graduate students, early career professionals, and senior scientists to describe the current cutting-edge research using automated telemetry to increase our understanding of birds and to highlight topics for future research. Our symposium will include research on shorebirds, songbirds, nightjars, swifts, and hummingbirds, and will cover all phases of the annual cycle. We hope to attract colleagues that already use or are hoping to use automated telemetry for their research. Although the symposium is organized around a specific technology, the topics covered will be diverse and include critical advances in our understanding of avian demography, behavior, space use, physiology, phenology, conservation, and methodology. As a result, we expect many researchers with no particular interest in automated telemetry will also attend. By bringing together scientists from across the globe, the goal of our symposium is to push the field of automated telemetry forward to ensure that we maximize the potential of this powerful tracking method.

A social perspective on songbird migration

Organizer: Joely G. DeSimone

Wednesday, 9 August, 1:30 p.m. ET

The concentration of birds in flyways during migratory seasons means that songbirds, though traditionally often thought of as migrating independently, likely share the airspace with thousands of other individuals and interact with transient communities of migrants on the ground. From take-off to landing, migration remains a very social experience. This symposium seeks to challenge the common conception of migration as individuals moving through space to instead consider whole communities of interacting animals. Social information and interactions likely influence every facet of migration, including departure timing, in-flight behavior, stopover refueling, and migratory cessation and breeding habitat selection, each of which the speakers explore using a range of techniques, including radio-tracking, social network analysis of historical banding data, physiological experiments, and machine learning algorithms of nocturnal flight calls.

This symposium will be of broad interest by 1) offering a novel perspective on songbird migration, 2) involving many scales of biology, including individual migratory physiology, inter-species interactions, and community-level species associations, 3) and including a range of approaches that may be helpful to ornithologists looking to apply these techniques to other phases of the annual cycle. Finally, the session's speakers are primarily early career researchers; one goal of this symposium is to support and promote the work of the next generation of ornithologists and migration ecologists.

Aerial Insectivores in working landscapes: Bridging biodiversity, climate, and people

Organizers: Ann E. McKellar, Lisha L. Berzins

Thursday, 10 August, 1:30 p.m. ET; 3:30 p.m. ET

Aerial insectivores are declining more rapidly than any guild of North American birds, with an estimated loss of nearly 160 million individuals since the 1970s. This group of birds is also unique in its ability to link humans to ecosystems by acting as an indicator of ecosystem health within working landscapes, including agricultural, forested, and urban environments. Building on the conference theme of "Birds as Bridges", our symposium will bring together researchers and conservationists studying aerial insectivores within working landscapes to better understand linkages between biodiversity, weather and climate change, and human well-being. Given the ever-expanding human footprint, there is an urgent need to both understand how human-modified landscapes influence biodiversity, and how to ensure that sufficient wildlife habitat is provided within working landscapes for species, including humans, to survive and thrive. We have speakers whose presentations span working landscapes in various geographies (e.g., Canadian prairies, Great Lakes region of Canada and the United States, Argentina), subject areas (e.g., climate change, habitat use, education/outreach), and organizations (e.g., government, ENGO, academic), with a focus on student and early-career presenters, which will ensure a diversity of voices and perspectives and we hope will make for a symposium that is inclusive, representative, and appealing to a broad audience.

Interdisciplinary symposium on bird-window collisions

Organizers: Heidi Trudell and Brendon Samuels

Saturday, 12 August, 10:30 a.m. ET; 1:30 p.m. ET

Bird-window collisions are a growing area of focus for conservation management. However, critical information gained through research and practice is not consistently being translated and shared across sectors. This symposium aims to integrate perspectives from scientific research, industries, and policy. Speakers will come from

diverse vocations, career stages and institutions across North America to discuss topics in avian sensory biology and behavior, conservation management, architecture and industrial design, including: recent advances in academic and industrial research, proposing a technical update to the CSA A460:19 Bird-Friendly Building Design standard, reviewing the Canadian and American policy landscapes, advocating for window treatments, establishing a minimum standard for the effectiveness of collision deterrents, and identifying priority topics and questions to be pursued by a future working group. The goal of this symposium is to provide footing to engage participating stakeholders in sustained international collaborative work on bird-window collisions.

Analysis challenges for modern breeding bird atlases

Organizers: Julie A. Hart, Gabriel J. Foley

Thursday, 10 August, 1:30 p.m. ET

Atlas projects provide large-scale, high-precision community science datasets that are used to map the distribution and abundance of a particular group of organisms within a region. In North America, these are typically 5-6 year projects conducted at the state or province level and repeated about every two decades. Recent advances in Atlas methodology present novel challenges, such as integrating multiple data types and making comparisons over time possible even with imperfect detection information. The goal of this symposium is to bring together experts in the field who are advancing techniques in analyzing large, complex datasets. The presenters are from across Canada and the US with academic, government, and non-profit affiliations. We start with a discussion of the value of Atlases in the era of big data. Modern atlases provide spatially-explicit data with accurate effort information and evenly spread effort across a region. Next, we address how to integrate multiple data types. Most atlas projects supplement traditional atlas data by conducting point counts with distance sampling, and a few are starting to incorporate digital audio recordings. Integrating these new data types with traditional atlas data is non-trivial and can improve our ability to model occupancy and abundance. Finally, we will explore how to standardize effort information to account for changes in detectability over time. Many atlases are now in their second or third repetition, providing a rich dataset to quantify habitat and climate impacts on bird populations. We end with a discussion of future research priorities and identify opportunities for collaboration. Bringing together the top experts in the field will advance the analysis of large datasets that integrate multiple data types across different time periods. This symposium will follow the “Importance of detection probability and recent advances in estimation” symposium, which will cover the theory of why detectability matters and how to quantify it, while this symposium will apply that theory to discuss integrated abundance models.

New discoveries in the interactions between birds and ectosymbiotic arthropods

Organizers: Than J. Boves, Heather C. Proctor, Alix Matthews

Friday, 11 August, 10:30 a.m. ET; 1:30 p.m. ET

Ectosymbiotic arthropods of birds have evolved close, persistent associations with avian hosts and include insects such as lice, and arachnids such as ticks and mites. The functional roles of these symbionts run the gamut from mutualistic to commensal to parasitic and they have co-evolved with their hosts in a variety of ways. Although these ectosymbionts are ubiquitous on birds, there are still many ecological and evolutionary knowledge gaps regarding how they impact their hosts, and conversely, how birds affect their ectosymbiotic partners over space and time. In this symposium we will hear from the researchers that are helping to fill these gaps by studying how ectosymbionts interact with birds at many levels, from influencing behavior of individuals to impacting population dynamics to affecting the evolutionary trajectories of species. In addition, some researchers will report on phylogenetic relationships of ectosymbionts, including whether the structure of symbiont trees match host trees, and will describe coevolutionary events that may have led to the observed patterns. In total, we will hear from a diverse, global panel of researchers at many stages of their careers who study these symbiotic relationships at different eco-evolutionary scales in many groups of ectosymbionts. The presentations will also span multiple lineages of birds, which we hope will be of interest to a wide audience.

Importance of detection probability and recent advances in estimation

Organizers: Brandon P.M. Edwards, Elly C. Knight

Thursday, 10 August, 10:30 a.m. ET

Biological surveys provide insights into occurrence and abundance of bird species across their range, and are often used in conservation decisions. However, the ability to detect a bird (“detection probability”) under a variety of environmental or survey conditions can affect the number of birds that are recorded on a survey, which can lead to bias. We will bring together speakers from varying backgrounds and institutions across North America to highlight recent developments for estimating detection probabilities in birds. First, we will review the importance of incorporating detection probability in analyses and conservation decision-making. Next, we will discuss data collection and how survey design affects estimates of detectability. We will then discuss how to correct for a known major source of detection probability bias, distance estimation. Our final talks will fill knowledge gaps about the detection probability of visual observations and passive acoustic monitoring surveys and look forward towards future developments in detection probability theory. We will end the session with discussion of those future developments and how to integrate them with the theoretical and methodological advances discussed in the session. The following symposium, “Analysis challenges for modern atlases,” will apply the theory presented here into

integrated abundance models. The topic of detectability has broad implications for all ornithological audiences; the ability to detect individual birds can affect the outcomes of any analysis and should be considered in all research and monitoring scenarios.

Birds as sentinels for 21st century environmental change in forest ecosystems

Organizers: Andrew N. Stillman, James W. Rivers, Mark E. Kerstens

Friday, 1 August, 1:30 p.m. ET; 3:30 p.m. ET

Forests support the majority of terrestrial biodiversity on the planet, including 75% of the bird species known to science. Continued loss of forest through land use conversion, coupled with fragmentation and anthropogenic-driven climate change, continues to threaten forest bird populations in many parts of the world. In this symposium, we will bring together a diverse group of speakers to share new research from a range of forest ecosystems, covering species that vary widely in their life histories. This symposium showcases bird responses to a range of natural and anthropogenic stressors across multiple scales of biological organization, including studies evaluating the influence of invasive competitors, increases in wildfire severity and intensity, fragmentation of critical breeding habitat, and responses to anthropogenic climate change. These presentations emphasize the need for understanding basic aspects of avian ecology when conserving and managing forest birds in light of environmental changes in forest ecosystems. To enhance the range of presentations and ensure a mix of diverse backgrounds, this symposium features presentations from agency scientists, academic scientists, and young professionals, as well as speakers from both the U.S. and Canada.

Celebrating 20 years of collaborative research and conservation to recover the Golden-winged Warbler

Organizer: Amber M. Roth

Friday, 11 August, 10:30 a.m. ET; 1:30 p.m. ET

The Golden-winged Warbler (*Vermivora chrysoptera*) is a rapidly declining migratory forest bird listed as threatened under Schedule 1 of Canada's Species at Risk Act and is under review for possible listing under the US Endangered Species Act. The Golden-winged Warbler Working Group was established in August 2003 at the 121st meeting of the American Ornithologists' Union in Urbana-Champaign, Illinois to help recover the species. In 2005, the group held a workshop where the first full-annual cycle collaborative research and conservation initiative for the species was launched. Since then, the group has continued to coordinate large-scale collaborative research projects, wrote and revised a species full-annual cycle conservation plan, developed outreach materials for various target audiences, and is a model for the formation of

single-species working groups. This symposium celebrates the 20th anniversary of the working group by blending presentations on lessons learned with recent research and conservation advances from across the full-annual range. Topics include a diversity of issues that can be applied to better understanding ecology, management, and conservation challenges facing other species especially migratory forest birds. Symposium speakers are from North, Central, and South America and a range of career stages.

Optimizing the utility of bird movement data for conservation applications

Organizer: Sarah J. Clements

Wednesday, 9 August, 10:30 a.m. ET

Movement data provide a wealth of information to answer questions in basic and applied ecology. However, many technologies and analytical techniques in movement ecology were developed for studies of large-bodied animals, so their application to studies of smaller birds with more limited capacity for data collection poses challenges. These limitations make well-designed data collection and analytical approaches critical to applying movement data to avian conservation action. Bird researchers have been on the cutting edge of developing new methods to get the most out of their data to meet a variety of objectives across a wide range of study systems. In this session, we will hear about studies that employed a variety of technologies (e.g., radar, geolocators, GPS) and developed new analytical techniques to inform conservation action. We have speakers from institutions throughout North America with a variety of perspectives who will discuss research focused on different parts of the annual cycle and with study sites in both the western and eastern hemispheres. With strategic collection and analysis of movement data, we can achieve objectives such as monitoring productivity for species of conservation concern in inaccessible locations and using behavioral information to prioritize landscape conservation across management units.

Taking the pulse of birds with volunteer-based science: challenges and successes

Organizer: Danielle Ethier

Wednesday, 9 August, 1:30 p.m. ET; 3:30 p.m. ET

Citizen science holds tremendous power and potential for conserving birds and has quickly matured as a major influential tool for driving on-the-ground conservation action. Birds Canada – the country's only national organization dedicated to bird conservation – manages 44 citizen science programs that engage over 74,000 volunteers. In turn, more than 20 million species occurrence records are submitted each year, which drives our understanding, appreciation, and conservation of birds both nationally and

internationally. Specifically, these rich data resources are being used to engage diverse communities, disentangle changes in populations, identify threats, drive habitat protection, and inform crucial report cards like the State of Canada's Birds. This symposium will showcase a wide range of successful applications of volunteer-based initiatives for monitoring various avian groups, focusing on proven methods that overcome challenges and help ensure on-the-ground actions are implemented based on program results. This symposium features speakers from Birds Canada and bridge several gaps, including those between professional and volunteer-based data collection, well-known and lesser-known citizen science programs, and emerging technologies and on-the-ground conservation action.

Urban areas as bridges for birds during the non-breeding period

Organizers: Elizabeth A. Gow, Barbara Frei, Krista L. De Groot

Wednesday, 9 August, 10:30 a.m. ET

Urban ecology is one of the fastest growing sub-disciplines in ecology. Urban areas provide resources such as food and shelter for resident birds throughout the year, but a wider range of bird species may depend on these resources during the migratory and overwintering periods. However, most research on birds within urban ecosystems in North America has focused on the breeding season. Municipalities require science-based recommendations to ensure that cities become climate resilient, and develop to support growing human populations, while continuing to support these key stages of the avian life cycle. An emerging focus within urban ornithology is identifying how birds use or move through urban areas during the migratory or overwintering periods. Our goal with this symposium is to explore the value and importance of urban areas for birds during non-breeding periods, and to identify key challenges, opportunities, and uncertainties in an exciting field. Our presenters will showcase research from Canada, the USA, and Colombia, including women, those from traditionally underrepresented groups, and research from a diversity of career stages and backgrounds.

Full-annual-cycle modeling for management of Eastern Loggerhead Shrike in North America

Organizers: Amy Chabot, James J. Giocomo, Hazel Wheeler

Saturday, 12 August, 3:30 p.m. ET

The Loggerhead Shrike (*Lanius ludovicianus*) has experienced a drastic decline in the past 50 years, with the current population just one quarter of what it was in 1966. It is a species at risk across Canada, and is a priority for conservation in 34 U.S. states. The northeastern migratory subspecies (*L.l. migrans*) has now disappeared from much of its

former range and is in critical danger of becoming extinct. Existing recovery efforts include in-situ population monitoring and land stewardship, which is highly integrated with an ex-situ conservation breeding and release program. In recent years, a wide array of partners have been engaged in a Species Conservation Planning process for *L.I. migrans*, facilitated by the IUCN SSC Conservation Planning Specialist Group. The goal: use full-annual-cycle (FAC) modeling to develop a long-term international conservation plan for the species, including a set of actions with implementation timelines, identification of responsible parties, and obstacles to completion, that can help guide the evolving recovery effort for the subspecies. This symposium will provide an overview of our efforts to develop a FAC model and conservation action plan for *L.I. migrans*, incorporating both in-situ and ex-situ populations. The need to apply FAC modeling to wide-ranging bird species, some with several subspecies, is increasing as the bird conservation community works to apply scientific knowledge to large-scale conservation programs in Canada and the U.S.

Habitat restoration for avian conservation

Organizer: David J. Agro

Saturday, 12 August, 1:30 p.m. ET

COP 15 set out an ambitious global objective of conserving 30% of the planet by 2030 to protect biodiversity. Most species that are endangered are declining due to habitat loss. Restoration is a key strategy for reversing the decline of endangered and threatened bird species, as well as the decline of more common species. Birds are excellent indicators of the success of restoration efforts because they respond relatively quickly and are easy to monitor. Restoration to re-establish lost habitat or reconnect habitat patches, is a growing field for conservation but to be effective it must be led by qualified restorationists that use science/training to conduct it. Too many restoration efforts are attempted without the appropriate methodologies for the site conditions, leading to failure. Examples of restoration successes and approaches to problems that have been encountered will be provided as along with discussion of appropriate methodologies. Restoring habitats requires a strong relationship with research to document and improve methodologies and can provide key opportunities for local communities. Restoration is also ideal for engaging communities in conservation by reestablishing or managing habitats in collaboration with restorationists and researchers.

Lifecycle Conservation of Western migratory Hummingbirds

Organizers: Susan Bonfield, Miguel Matta

Saturday, 12 August, 10:30 a.m. ET

The Western Hummingbird Partnership (WHP) has identified lack of knowledge about hummingbird migration, flowering plant preferences, and phenology and the availability of preferred plants for restoration as likely barriers to conserving migratory hummingbirds along their migratory routes. A void exists in the ability of scientists to gather data about hummingbirds. Unlike other birds, hummingbirds are not easily monitored using typical survey methods. They don't sing and are missed in aural (by ear) surveys. Capturing and banding them requires a special permit, which relatively few biologists have. Hummingbirds use many species of flowers, and botanic expertise may be required to identify all the plants that are important for hummingbirds. The Western Hummingbird Partnership was created to bring together biologists, researchers, land managers, educators, and others to address gaps in knowledge about 7 species of western North American migratory hummingbirds and to develop solutions to troubling population declines in some of these species. As a nectarivore and insectivore, hummingbirds face unique conservation challenges among bird orders in North America. In this symposium, researchers will present data on hummingbird ecology and threats. We hope that the symposium will spark interest in more hummingbird research.

Scientific Program Schedule

Up to date as of 2 August 2023

Wednesday morning, 9 August 2023, 10:30–12:00

	1: Salon J	2: Salon D	3: Salon B	4: Salon H
Session	Symposium: S Urban areas as bridges Moderator: Barbara Frei	Symposium: S Movement data for conservation Moderator: Sarah Clements	Contributed papers: Song & Vocalizations 1 Moderator: Daniel Mennill	Contributed papers: Evolution 1 Moderator: Ethan Gyllenhaal
10:30	Fall stopover length and movements of migratory birds in urban greenspaces B Frei, A Morales PA: Barbara Frei	Adapting hidden Markov models to data from small GPS transmitters L Berigan, S Clements, R Darling, A Fish, C Slezak, S McWilliams, A Roth, E Blomberg PA: Liam Berigan	Song variation drives weak asymmetric patterns of aggression between subspecies of Variable Seedeater D Ocampo, L Sandoval, J Uy PA: Diego Ocampo	Random mating in the face of balancing selection at the major histocompatibility complex class I in Song Sparrows S Thompson, J Slade, D Potvin, B MacDougall-Shackleton PA: Scout Thompson
10:45	Movement of non-breeding birds in Metro Vancouver E Gow, T Hohn, T Imlay, S Bliss, A Gonzalez-Prieto, K De Groot PA: Elizabeth Gow	Validating and extending bird migration forecasts with a portable radar M Jimenez, A Khalighifar, K Horton PA: Mikko Jimenez	Dampened soundscapes in degraded oak woodlands reflect loss of avian richness and abundance M Persche, Z Burivalova, A Pidgeon PA: Maia Persche	*Spatial and historical dynamics of the Northern Flicker (<i>Colaptes auratus</i>) hybrid zone in the Colorado Front Range K Meek, T Imfeld, G Spellman PA: Kaily Taylor-Meek
11:00	Feast or famine: do urban forests provide adequate refueling for migratory birds? D Narango, S Lerman, E Rogers, A Gerson PA: Desiree Narango	*Pressure points: Barometric geolocators reveal unprecedented details of migration ecology in Swainson's Warblers G Rhyne, P Stouffer, A Peele, L Bulluck, D Buehler, D Rader, T Boves, J Tyrrell, M Johnson PA: Garrett Rhyne	Vocal variation among and within four genetically similar, highly sympatric southern capuchinos (genus <i>Sporophila</i>) C Estalles, K Odom, L Campagna, M Araya Salas, L Barone, M Rodriguez-Cajarville, S Lucero, P Tubaro, D Lijtmaer PA: Cecilia Estalles	*Comparative vocalizations, genomic divergence, and demographic histories in three North American East-West species pairs L Phung, D Toews PA: Lan-Nhi Phung
11:15	The ecological role of native-plant landscaping in residential yards to birds during the nonbreeding period N Smallwood, E Wood PA: Noriko Smallwood	Measures of individual and collective breeding ecology: grassland birds' response to restoration with bison. A Chavez Trevino, S Lerman, M Byrne, L Sullivan, K Gutknecht PA: Alejandro Chávez Treviño	Male and female tropical wrens vary their vocal behaviour when density changes: responses to a multi-speaker experiment N Sánchez, D Mennill PA: Natalie Sánchez	Waves of Colonization and Hybridization in a Classic Archipelago Superspecies E Gyllenhaal, S Brady, A Naikatini, J Manthey, R Moyle, M Andersen PA: Ethan Gyllenhaal
11:30	LiDAR predicts habitat for birds during the nonbreeding period across a California megacity E Wood, M Beland, C Benitez PA: Eric Wood	Using GPS-acceleration devices to quantify breeding propensity of birds nesting in remote locations A Schindler, A Fox, C Wikle, B Ballard, A Walsh, S Kelly, M Weegman PA: Alexander Schindler	Dialect differences correlate with environment in migratory, but not sedentary, coastal White-crowned Sparrows. J Yang, B Carstens PA: Kaiya Provost	Modularity and rates of morphological evolution in an adaptive radiation of birds (Vangidae) A Auerbach, S Reddy PA: Anya Auerbach
11:45	Urban Bird Diversity in Colombia: Insights from Long-Term Studies and Trends for Neotropical megadiverse cities M Echeverry-Galvis, P Lozano, J Amaya-E. PA: Maria Echeverry-Galvis	Quantifying shorebird energy expenditure reveals different drivers of behavior at two sites within a management unit S Clements, B Ballard, J Loghry, M Weegman PA: Sarah Clements	Imitation, territoriality, and acoustic variation in Savannah Sparrows; the vocal learning program of a wild songbird D Mennill, S Dobney, I Thomas, A Hensel, I Moran, J Aubin, S Doucet, R Norris, A Newman, H Williams PA: Daniel Mennill	
12:00	Lunch Break			

* indicates student presenters eligible for a Student Presentation Award; "PA" indicates Presenting Author

Wednesday morning, 9 August 2023, 10:30–12:00

	5: Salon E	6: Salon B1	7: Salon G
Session	Contributed papers: Distributions & Ranges 1 Moderator: Wendy Dorman	Contributed papers: Behavior 1 Moderator: Mark Hauber	Contributed papers: Climate change 1 Moderator: Lionel Leston
10:30	Insights into the breeding distribution and chronology of North American scoters from satellite telemetry data K Bianchini, S Gilliland, A Berlin, T Bowman, S Boyd, S De La Cruz, D Esler, J Evenson, P Flint PA: Kristin Bianchini	*Tracking the process of egg ejection in the American robin A Turner, V Sluis, E Williams, T Benson, M Ward, M Hauber PA: Abigail Turner	*Using Bayesian occupancy modeling to identify the roles of climate and landscape in black vulture range expansion J Brown, J Beasley, B Kluever, C Rushing, M Kohl PA: Jennifer Brown
10:45	*Modeling habitat suitability of Yellow-eared bulbul (<i>Pycnonotus penicillatus</i>) in Sri Lanka N Perera, J Ross, M Patten PA: Nuwanthika Perera	Two might really be better than one: paired wintering American Kestrels have greater foraging success than singles K Biles, J Bednarz PA: Kelsey Biles	Changing Body Size in a Changing Climate: How Birds Respond to Environmental Pressures M Watson, J Kerr PA: Matthew Watson
11:00	Temporal niche conservatism of a forest-obligate bird at the edge of its range P Belamaric, B Zuckerberg, J Pauli PA: Pairsa Belamaric	Adaptive patterns of flight initiation distance in a globally introduced bird species M Hauber, T Grim, R Dor PA: Mark Hauber	Climate-Induced Range Contractions in Boreal Birds J Taylor, H Kim, B Zuckerberg, N Anich PA: Janelle Taylor
11:15	*Climate drives rapid, multi-ocean range expansion in a tropical seabird J Ramirez-Garofalo, S Curley PA: Jose Ramirez-Garofalo	Increasing familiarity reduces fighting in interspecific dominance hierarchies G Leighton, J Drury, E Miller PA: Gavin Leighton	*Latitudinal gradient in climatic stress of the Northern Cardinal, a species undergoing northerly range expansion J Brewer, K Brzeski, D Baldassarre, E Johnson, D Mooney, J Wolfe PA: Jenna Brewer
11:30	Relative abundance and habitat use of Swainson's Warblers (<i>Limnothlypis swainsonii</i>) in the Appalachian Mountains of TN D Rader, D Buehler PA: Dawson Rader	*Sex-specific territoriality and duetting in the Carolina Wren (<i>Thryothorus ludovicianus</i>) during the non-breeding season D Zapata, J McEntee PA: Danny Zapata	*Spatial synchrony in primary productivity and its effect on bird occurrence and abundance at continental scales R Buron, B Zuckerberg, V Radeloff, A Pidgeon PA: Ryan Buron
11:45	Interspecific territoriality has facilitated increases in the breeding habitat overlap of North American passerines D Nesbit, M Cowen, G Grether, J Drury PA: Daniel Nesbit	*The art of winning and losing: an analysis of spatio-temporal variations in dominance among hummingbirds A Fernandes, J Perez-Eman, A Rico-Guevara, D Griffon PA: Ana Melisa Fernandes	*Birds ringing the bell on climate change in the Northern Canadian boreal forest A Raymundo Sanchez, T Micheletti, S Haché, D Stralberg, F Stewart, J Tremblay, S Van Wilgenburg, E Bayne PA: Angeles Raymundo Sanchez
12:00	Lunch Break		

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Wednesday lunch session, 9 August 2023, 12:00–13:30

1: Ballroom 4 & 5	
12:00	<p>Roundtable Discussion: Perspectives on birding and ornithology from the deaf and hard of hearing</p> <p>Organizers: Lyn Brown, Jacob Drucker, Stephanie Gaspar, Prashant Ghimire, Maina Handmaker, tara Rodkey, José Ramírez-Garofalo, Kristen Rosamond, Alma Schrage, & Tatjana Washington</p>
13:30	Early Afternoon Session

Wednesday early afternoon, 9 August 2023, 13:30–15:00

	1: Salon E	2: Salon D	3: Salon H	4: Salon B
Session	Symposium: S Social perspective on migration Moderator: Joely DeSimone	Symposium: S Volunteer-based science 1 Moderator: Jody Allair	Contributed papers: Evolution 2 Moderator: Kevin Bennett	Contributed papers: Molt & Plumage Moderator: Haley Kenyon
13:30	Nocturnal migratory departure timing of songbirds in relation to social and environmental conditions A Beauchamp, Y Morbey, C Guglielmo, P Taylor PA: Andrew Beauchamp	Building connections: Birds Canada's role in volunteer-based monitoring in Canada J Allair PA: Jody Allair	*Neural trade-off in the sensory regions of waterfowl (Anatidae) K Toler, J Corfield PA: Kellee Toler	Carotenoid-based color displays are inherently honest signals G Hill, R Weaver, M Powers PA: Geoffrey Hill
13:45	The influence of sex ratio on the spring migration traits of male Yellow-rumped Warblers J Deakin, C Guglielmo, Y Morbey PA: Jessica Deakin	Lessons learned from 35 Years of Project FeederWatch K Wilcox PA: Kerrie Wilcox	Genome-wide population divergence between and within-islands upon colonization of Macaronesia by the Common Chaffinch M Recuerda, M Palacios, O Frías, K Hobson, B Nabholz, G Blanco, B Milá PA: María Recuerda	Colour as a between-species social dominance signal H Kenyon, P Martin PA: Haley Kenyon
14:00	Communities on the move: testing the strength and persistence of songbird species associations at stopover J DeSimone, E Cohen PA: Joely DeSimone	Christmas Bird Count: 123 years of international collaborative monitoring Y Attia PA: Yousif Attia	Exploring the genetic architecture of reproductive isolation in hybridizing Black-capped and Carolina chickadees G Semenov, A Rice, T Roth, Z Chevron, M Carling, R Schweizer, E Linck, M McQuillan, J Spinelli, A Russell, N Martinez, A Van Huynh, M Robbins PA: Georgy Semenov	*Investigating the influence of adaptive divergence in molting behavior on reproductive isolation and speciation in birds P Dougherty, S Fossberg, M Carling PA: Paul Dougherty
14:15	*Loss of social partners weakens winter site fidelity in Golden-crowned Sparrows (<i>Zonotrichia atricapilla</i>) A Madsen, B Lyon, A Chaine, T Block, D Shizuka PA: Anastasia Madsen	A rocky road: socioeconomic barriers to Breeding Bird Atlas participation in Newfoundland J McDermott, C Dale PA: Jenna McDermott	Evaluating assortative mating and reproductive isolation in a contact zone between lineages of the House Wren P Fracas, R Arrieta, B Bukowski, L Campagna, P Lavinia, P Llambias, P Tubaro, D Lijtmaer PA: Pablo Fracas	Colorful Feathers and Colorful Skin: Correlated Trait Evolution Between Feathered and Non-feathered Regions in Tanagers J Alderson, A Shultz, G Brown III, K Burns PA: Jonah Alderson
14:30	Listening in on social interactions during nocturnal migration B Van Doren, G Van Horn, A Farnsworth PA: Benjamin Van Doren	Marshbird monitoring in remote areas: the atlas marshbird survey concept D Tozer PA: Douglas Tozer	*Evolution and plumage color introgression in island manakins K Bennett, P Bolton, K Long, T Parsons, A O'Dea, G Wilkinson, M Braun PA: Kevin Bennett	*Plumage characteristics of the Long-eared Owl (<i>Asio otus</i>) in the visible and ultraviolet Spectrums of light E Griffith, N Mackentley, C Neri, A Lindsay PA: Emily Griffith
14:45	Social cues influence the vernal migratory behavior of a nomadic songbird, the pine siskin. B Vernasco, J Cornelius, H Watts PA: Ben Vernasco	Common Loons are in trouble: citizen science and international collaboration to the rescue? M Furst, K Bianchini, M Mallory, W Piper, D Tozer PA: Matthew Furst	Disturbance-mediated hybridization leads to extensive local introgression in common backyard birds K Grabenstein, A Theodosopoulos, V Pravosudov, S Taylor PA: Kathryn Grabenstein	The effect of feather microstructure variation on water repellency. F Muzio, M Rubega PA: Frank Muzio
15:00	Coffee Break			

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Wednesday early afternoon, 9 August 2023, 13:30–15:00

	5: Salon B1	6: Salon J	7: Salon G
Session	Contributed papers: Life history Moderator: Joseph Welklin	Contributed papers: Breeding biology 1 Moderator: Ben Sonnenberg	Contributed papers: Conservation/ Declining species 1 Moderator: Lesley Bulluck
13:30	The Effects of Structural Size on Swainson's Hawk Natal Dispersal Distance and Recruitment Dynamics E Meisman, C Vennen, C Briggs, M Johnson PA: Elizabeth Meisman	*Paternal deprivation in a biparental bird: consequences on social behavior, song, and beak color A Riley, A Ayon, J Grindstaff PA: Angela Riley	Genetic structure and range delineation in the Least Bell's Vireo and the Arizona Bell's Vireo B Kus, A Vandergast, D Wood PA: Barbara Kus
13:45	Aging is associated with improved breeding performance rather than senescence in Mountain Chickadees (<i>Poecile gambeli</i>) J Welklin, B Sonnenberg, C Branch, A Pitera, V Heinen, L Benedict, L Whitenack, D Kozlovsy, V Pravosudov PA: Joseph Welklin	*The occurrence and preference of anthropogenic materials in European Starling (<i>Sturnus vulgaris</i>) nests G Armstrong, C Barber PA: Gabrielle Armstrong	*Status and habitat relationships of the Yuma Ridgway's Rail (<i>Rallus o. yumanensis</i>) in the Ciénega de Santa Clara, Mexico S Villagomez, E Palacios, O Hinojosa-Huerta PA: Stefanny Villagomez
14:00	Estimating the weight of the Great Auk and its egg R Montgomerie, T Birkhead PA: Robert Montgomerie	*Comparing species richness estimates from Breeding Bird Survey Taiwan and eBird F Shen, T Ding, J Tsai PA: Fang-Yu (Betty) Shen	Genome-wide adaptive divergence may influence introgression from conservation translocations in Greater Sage-grouse S Zimmerman, C Aldridge, M Schroeder, J Fike, R Cormann, S Oyler-McCance PA: Shawna Zimmerman
14:15	*Riskiness of movement lifestyle varies inversely with adult survival probability among species T Forrester, T Martin PA: Timothy Forrester	Thermal constraints impact reproductive investment in a breeding aerial insectivore M Heft, B Hennigar, K Baker, G Burness PA: Megan Heft	Using a lidar-derived land cover classification to model site occupancy for shrubland habitat conservation L Bulluck, B Lin PA: Lesley Bulluck
14:30	Reviving the Past: Genomic Studies of Museum Specimens to Unravel the Taxonomy of Woollyneck Storks P Ghimire, S Lamichhaney PA: Prashant Ghimire	Is nest box orientation important for occupancy and breeding success in European Starlings (<i>Sturnus vulgaris</i>)? T Williams, A Dsouza, J Tang PA: Tony Williams	Collaborative Black Tern conservation in the Great Lakes region J Fuller, E Ford, S Beilke, S Saunders PA: Jennifer Fuller
14:45		The influence of cognition on fine scale parental investment behavior B Sonnenberg, C Branch, A Pitera, L Benedict, V Heinen, L Whitenack, J Welklin, E Bridge, V Pravosudov PA: Ben Sonnenberg	*Effects of irregular shelterwood cutting on a species dependent on old-growth attributes: the Black-backed Woodpecker. M Lemieux, J Tremblay PA: Myriam Lemieux
15:00	Coffee Break		

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Wednesday late afternoon, 9 August 2023, 15:30–17:00

	1: Salon D	2: Salon H	3: Salon E	4: Salon J
Session	Symposium: S Volunteer-based science 2 Moderator: Jody Allair	Contributed papers: Genomics 1 Moderator: Scott Taylor	Contributed papers: Migration biology 1 Moderator: Kyle Horton	Contributed papers: Nonbreeding biology Moderator: Francisco Vega-Reyes
15:30	Decades of coastal waterbird and beached bird surveys help inform conservations initiatives in British Columbia R Torrenta, D Bradley, D Ethier PA: Remi Torrenta	Low genetic differentiation in a New Guinean passerine family despite strong relictualisation in peripheral habitats I Müller, S Rajan, F Thörn, P Ericson, J Dumbacher, G Maiah PA: Ingo Müller	Unraveling the migration of Red-tailed Hawks in the Great Lakes Region N Alioto, B Robinson, J Owen PA: Nick Alioto	*Habitat selection of overwintering White-throated Sparrow flocks in an Ohio experimental wetland ecosystem. A Rose PA: Anna Rose
15:45	Collaborating with partners, citizen scientists and private landowners to help conserve Chimney Swifts and Bank Swallows H Polowyk PA: Rielle Hoeg	*Is the Grass Always Greener? The Response of a Migratory Warbler to Key Environmental Factors M Ore, C Rayne, C Bossu, K Ruegg, G Graves, M Webster PA: Madelyn Ore	Reshaping avian migration in the Anthropocene -- continental scale attraction to artificial light at night revealed K Horton, J Buler, S Anderson, C Burt, A Collins, A Dokter, F Guo, D Sheldon, M Tomaszewska, G Henebry PA: Kyle Horton	*Winter Habitat Associations of Roosting White-throated Sparrows (<i>Zonotrichia albicollis</i>) in Arkansas, USA M Gonzalez, P Ruhl, F Hale, M Adams, D Kidder PA: Maria Gonzalez
16:00	Key strategies for successfully managing volunteer citizen scientists K Jones PA: Kathy Jones	A gene network and pathways perspective on the genetics of spatial cognition in chickadees S Taylor, G Semenov, B Sonnenberg, C Branch, V Heinen, J Welklin, E Bridge, V Pravosudov PA: Scott Taylor	*Inbound arrivals: Using weather surveillance radar to quantify the timing of spring trans-Gulf bird migration A Abbott, Y Deng, K Badwey, A Farnsworth, K Horton PA: Annika Abbott	*Winter movements and habitat use of marsh sparrows in coastal North Carolina M West, J Carpenter, E Buckland, M Buddy, R Danner PA: Marae West
16:15	Identifying and stewarding Key Biodiversity Areas: the critical role of volunteer-gathered data D Evans, A Couturier, A Bichel PA: Dean Evans	Exploring Molecular Signatures of Seasonal Variations in Local Bird Populations T Taucher, S Lamichhaney PA: Trixie Taucher	*Factors influencing altitudinal migratory decisions in a tropical lek-breeding frugivore K Hobbs, A Boyle PA: Kristen Hobbs	*Winter movement patterns of overwinter Lark Buntings at the Mexican high plateau resemble a seasonal nomadic strategy F Vega-Reyes, L Chapa-Vargas, A Celis-Murillo, E Huber-Sannwald, M Ward PA: Francisco Vega-Reyes
16:30	Bridging the data gap: How the NatureCounts platform drives avian conservation action C Jardine, D Lepage PA: Catherine Jardine	Asymmetric and limited introgression of sex chromosomes in recently sympatric Myzomela honeyeaters E Shogren, C Muirhead, E Marti, D Presgraves, J Uy PA: Elsie Shogren	*Is the answer blowin' in the wind? Differences in migration strategies of Alaska-breeding Short-billed Dowitchers R Bathrick, D Ruthrauff, J Johnson, R Snyder, N Senner PA: Rosalynd Bathrick	Drivers of winter bird feeder use in American Tree Sparrows K Hannah, C Tucker, G Legault, D Hope PA: Kevin Hannah
16:45	Discussion	Few genomic regions resist gene flow and underlie phenotypic differences in a pair of Neotropical seedeaters T Nguyen, M Repenning, C Suertegaray Fontana, L Campagna PA: Leonardo Campagna	A bioenergetic model to facilitate migratory landbird conservation along the northern Gulf of Mexico coast T Zenal, J Buler, J Cronin, L Randall, W Barrow, B Wilson, J Smolinsky, W Vermillion, R Wilson PA: Theodore Zenal	Space use and home range size of wintering Swamp Sparrows in relation to habitat type, life-history parameters and SLR. A Best, J Walters, R Danner PA: Allie Best
17:00	End of Session			

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Wednesday late afternoon, 9 August 2023, 15:30–17:00

	5: Salon B1	6: Salon B	7: Salon G
Session	Contributed papers: Urban ecology 1 Moderator: Michael Murphy	Contributed papers: Community ecology 1 Moderator: Laura Vander Meiden	Contributed papers: Conservation/ Declining species 2 Moderator: Erik Blomberg
15:30		*Mixed-species flock members show evidence of ecological selectivity and flexibility in flock participation L Vander Meiden, D Shizuka, I Hoppe, A Johnson PA: Laura Vander Meiden	New evidence suggests the persistence of the Ivory-billed Woodpecker (<i>Campephilus principalis</i>) in Louisiana S Latta, M Michaels, T Michot, P Shrum, P Johnson, J Tischendorf, M Weeks, J Trochet, D Scheifler PA: Steven Latta
15:45	Evidence for the effect of urbanization on neotropical bird species using three acoustic abundance indices A Hutschenreiter, E Andresen, M Briseño-Jaramillo, A Torres, E Ramos-Pinel, F Aureli PA: Anja Hutschenreiter	Estimating seasonal changes in bird abundance, composition, and habitat associations in the south Okanagan Valley, B.C. O Wilson, E Baerwald, D Blair, T Luszcz, E Gow PA: Olivia Wilson	Threats and conservation opportunities for migrating Whooping Cranes (<i>Grus americana</i>) in the Oil Sands Region of Alberta M Bidwell, A Crosby, E Bayne, J Conkin PA: Mark Bidwell
16:00	The importance of renesting to the viability of an urban population of Willow Flycatchers S Doory PA: Michael Murphy	Coastal wetlands in Sri Lanka: Ecologically important wintering grounds for thriving shorebirds (order: Charadriiformes) D Mahaulpatha, D Jayasekara, V Mendis, S Sigera, C Gunathilake PA: Dharshani Mahaulpatha	Population expansion and central place foraging affect critical habitat estimation for Whooping Cranes (<i>Grus americana</i>) A Crosby, M Bidwell, E Bayne, J Conkin PA: Andrew Crosby
16:15	Conifer specialist or stunted generalist? Competition and habitat use by Chestnut-backed Chickadees (<i>Poecile rufescens</i>) R Macklin, J Jankowski PA: Rory Macklin	Biotic–abiotic interactions constrain avian abundance distribution along temperate range boundaries H Kim, N Anich, B Zuckerberg PA: Hankyu Kim	Using UAV to discover secretive marsh bird nests H Glasko, E Elizondo, G Shriver PA: Hailey Glasko
16:30	Urbanization affects the morphology of adaptive traits in Galápagos Darwin's finches A Deeb, P Carrión-Avilés, J Chaves PA: Adan Deeb	*Bamboozling Interactions: Interspecific associations within mixed-species bird flocks in bamboo in the Eastern Himalaya S Srinivasan, U Srinivasan, S Rai, D Pradhan, A Biswakarma PA: Sidharth Srinivasan	The American woodcock singing ground survey largely conforms to the phenology of male woodcock migration E Blomberg, A Fish, L Berigan, A Roth, R Rau, S Clements, C Slezak, S McWilliams PA: Erik Blomberg
16:45	*Mate Fidelity in a Double-Brooded Urban Passerine, the European Starling (<i>Sturnus vulgaris</i>) A Wells, C Barber PA: Alyssa Wells	Annual variation in territory size and abundance of forest songbirds: 50 years at Hubbard Brook M Zammarelli, D Lutz, M Ayres, R Holmes PA: Miranda Zammarelli	*The nesting and diurnal habitat requirements of the American woodcock (<i>Scolopax minor</i>) in New Brunswick, Canada L Simulik, J Nocera, A Taylor PA: Larissa Simulik
17:00	End of Session		

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Wednesday dinner session, 9 August 2023, 17:00–18:30

1: Ballroom 4 & 5	
17:00	<p>Roundtable Discussion: Recovering Birds at the Tipping Point, Advancing the Road to Recovery</p> <p>Organizers: Humberto Berlanga, Ashley Dayer, Peter Marra</p>
18:30	Poster Session 1

Thursday morning, 10 August 2023, 10:30–12:00

	1: Salon D	2: Salon B	3: Salon H	4: Salon B1
Session	Symposium: S Automated radio telemetry 1 Moderator: Nathan Cooper	Symposium: S Importance of detection Moderator: Brandon Edwards	Contributed papers: Evolution 3 Moderator: Abigail Kimmitt	Contributed papers: Methods Moderator: Brian Evans
10:30	Mobilizing Motus: A decade of crowdsourcing conservation science. S Mackenzie, L Berrigan, P Davidson, E Geldart, J Hussell, C Jardine, A MacDonald, J Sayers, A Smith, D Lepage PA: Stuart Mackenzie	Why does detectability matter? From density estimation to conservation decisions B Edwards, J Bennett, A Smith PA: Brandon Edwards	Diversification and rapid plumage evolution within a clade of “Great Speciators” (Alcedinidae:Todiramphus) J McCullough, C Eliason, S Hackett, M Andersen PA: Jenna McCullough	
10:45	Insights from 9 years of tag deployments on passerines in the province of Québec J Tremblay, C Bégin-Marchand, V Lamarre, Y Aubry, A Desrochers, P Côté, J Therrien PA: Camille Bégin-Marchand	Accounting for observer heterogeneity in the data collection process using an updated Checklist Calibration Index (CCI) E Knight, D Iles, B Edwards, E Bayne PA: Cynthia Crowley	Replicate Flame-rumped Tanager hybrid zones and the role of selection in gene flow and reproductive isolation M Castano, C Cadena, J Uy PA: Maria Castano	*Implications of methodological choices: raptor survey techniques in open habitats J Reynolds, N Joakim, C Kirol, B Fedy PA: Jordan Reynolds
11:00	Nesting habitat characteristics of a northern population of chimney swifts (<i>Chaetura pelasgica</i>) in a forested landscape J Tixier, A Desrochers, P Paré, V Lamarre, J Perrier, C Bégin-Marchand, J Tremblay PA: Jeremie Tixier	How we detect wildlife - does ignoring visual detections affect our estimates? S Merker, C Elphick, M Tingley PA: Samuel Merker	Comparative phylogeography reveals genetic distinctiveness of Appalachian populations of migratory boreal songbirds A Kimmitt, T Pegan, A Jones, B Winger PA: Abigail Kimmitt	Artificial intelligence (BirdNET) supplements manual methods to maximize bird species occurrence from acoustic datasets L Ware, C Mahon, L McLeod, J Jette PA: Logan McLeod
11:15	Estimating Sprague's pipit (<i>Anthus spragueii</i>) breeding season survival and movement N Raginski, A Boyce, C Rushing PA: Nancy Raginski	Can post-hoc correction produce unbiased estimates of effective detection radius given distance estimation error? S Van Wilgenburg, D Iles PA: Steven Van Wilgenburg	Migratory strategy on differences in immune gene evolution and genome-wide neutral markers in Dark-Eyed Juncos E Fernandez, D Whittaker, J Slade PA: Joel Slade	Now I've heard everything!: An overview of recent advances in avian monitoring and research using ARUs E Bayne PA: Erin Bayne
11:30	Investigating the home ranges of hummingbirds in Colombia using two automated radio telemetry approaches A Sargent, M Ward, A Fernandes, Y Talwekar, M Muñoz-Amaya, N Téllez-Colmenares, A Rico-Guevara PA: Alyssa Sargent	Single visit variable effort survey design for robust analysis of point count and ARU data with detection error S Lele, P Solymos PA: Subhash Lele	Evolutionary history of the Southern Lapwing (<i>Vanellus chilensis</i>) and the role of glaciations in its diversification B Bukowski, L Campagna, M Rodríguez-Cajarville, S Cabanne, P Tubaro, D Lijtmaer PA: Belen Bukowski	Calibrating eBird detection probability for open-ocean records M Schrimpf, A Johnston, W Hochachka, C Wood PA: Michael Schrimpf
11:45	Songbirds initiate migratory flights synchronously relative to civil dusk N Cooper, B Dossman, L Berrigan, J Brown, A Brunner, H Chmura, D Cormier, C Bégin-Marchand PA: Nathan Cooper	Discussion	The Red-tailed Hawk Project: Developing a Model System in Studies of Raptor Ecology and Evolution B Robinson, N Alioto, L DeCicco, L Klicka, N Paprocki, A Pesano, N Richardson, M Robbins, B Sullivan, I Lovette, J Walsh PA: Bryce Robinson	Can automated radio telemetry be used to detect the timing and location of stationary periods in a local context? B Evans, B Rigley, J Stabach, J Kolowski, A Johnson PA: Brian Evans
12:00	Lunch Break			

* indicates student presenters eligible for a Student Presentation Award; “PA” indicates Presenting Author

Thursday morning, 10 August 2023, 10:30–12:00

	5: Salon E	6: Salon J	7: Salon G
Session	Contributed papers: Grassland birds 1 Moderator: Megan Massa	Contributed papers: Diseases & Parasites 1 Moderator: Tosha Kelly	Contributed papers: Breeding phenology Moderator: Ashley Peele
10:30	Geographic variation of Eastern Kingbird nest construction and its effect on insulative capacity S Gillette, M Murphy PA: Samantha Gillette	Faecal matters: gut microbial diversity and composition during experimental avian malaria infection in house sparrows T Kelly, R Noble, C Lattin PA: Tosha Kelly	*Relationship between arthropod phenology and reproductive timing and success in a resident montane bird L Whitenack, J Welkin, B Sonnenberg, V Heinen, V Pravosudov PA: Lauren Whitenack
10:45	Sweating the small stuff: Does nest-site selection affect microclimate exposure in grassland birds? J Bernath-Plaisted, C Ribic, B Zuckerberg PA: Jacy Bernath-Plaisted	*Too much of a good thing: the role of MHC class I against West Nile virus in American Robins P Kaur, J Owen, J Slade PA: Parmeet Kaur	Environmental and individual components of variation in breeding data in an insular Song Sparrow population P Arcese, R Germain, K Carbeck, M Duchesne PA: Peter Arcese
11:00	Burrowing Owl (<i>Athene cunicularia</i>) nest survival across a latitudinal gradient J Ellison, F Abadi, C Britt, M Desmond PA: Jordan Ellison	*Investigating physiological tradeoffs associated with avian haemosporidian infection during migration stopover G Orfanides, S Pagano PA: Gabriella Orfanides	Using citizen science to assess change in breeding phenology of Virginia's birds A Peele, E Hunter PA: Ashley Peele
11:15	Grassland bird sensitivity to climate variability in North America B Zuckerberg, S Maresh-Nelson, J Bernath-Plaisted, N Niemuth, C Ribic PA: Benjamin Zuckerberg	*Changes in tissue tropism of <i>Mycoplasma gallisepticum</i> following host jump M Reinoso-Perez, A Levitskiy, K Dhondt, N Cole, E Tulman, S Geary, A Dhondt PA: Maria Teresa Reinoso-Perez	Higher tree diversity could buffer the effect of phenological mismatch on breeding ecology of Varied Tits M Jeong, C Choi, E Kim, W Lee PA: Min-Su Jeong
11:30			*Nesting patterns, elevational shifts and thermal niche evolution in a Neotropical radiation F Machado-Stredel, A Peterson PA: Fernando Machado-Stredel
11:45	Avian Biodiversity on Florida Rangelands: Using AI to Determine the Impact of Cattle and Land Management Strategies Z Holmes, H Ellington PA: Zachery Holmes	*Cardueline finches vary in innate immunity against a deadly strain of avian Salmonella L Biehler, T Van Laar, J Slade PA: Lindsey Biehler	Habitat use and characteristics of Connecticut Warbler during the nesting and post-fledging period J Bednar, A Grinde, S Kolbe, K Snow, B Howland, R Slezak, M Windmuller-Campione PA: Josh Bednar
12:00	Lunch Break		

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Thursday lunch session, 10 August 2023, 12:00–13:30

	1: Ballroom 4 & 5	2: Salon C2 & C3
12:00	<p>Roundtable Discussion: Increasing inclusion and belonging for 2SLGBTQIA+ ornithologists</p> <p>Organizers: Sarah Winnicki, Maggie MacPherson, Nicola Koper, & Scott Taylor</p>	<p>Roundtable Discussion: Identifying unifying processes and terminology in juvenile life-stage nomenclature</p> <p>Organizers: Todd Jones, Scott Sillett, Wesley Hochachka, & Sara Kaiser</p>
13:30	<p>Early Afternoon Session</p>	

Thursday early afternoon, 10 August 2023, 13:30–15:00

	1: Salon D	2: Salon B	3: Salon B1	4: Salon J
Session	Symposium: S Automated radio telemetry 2 Moderator: Nathan Cooper	Symposium: S Breeding bird atlases Moderator: Julie Hart	Symposium: S Aerial Insectivores 1 Moderator: Ann McKellar	Contributed papers: Diseases & Parasites 2 Moderator: Cody Kent
13:30	Post-breeding movement and habitat associations of adult and juvenile bank swallows (<i>Riparia riparia</i>) G Mitchell, M Falconer, D Evans, Y Morbey PA: Greg Mitchell	The value of atlasing in the era of big data W Hochachka, T Auer, C Crowley, D Fink, S Ligocki, L Oldham Jaromczyk, O Robinson, A Rodewald, M Strimas-Mackey, C Wood PA: Wesley Hochachka	Effects of climate and agricultural intensity on swallow fitness in Saskatchewan's working landscapes A McKellar, L Berzins, C Morrissey, R Clark PA: Ann McKellar	*Haemosporidian parasites on wading birds captured from breeding colonies in coastal Alabama K Zhang, C Gulick, Z White, K Wilson, S Wisely, A Powell PA: Ke Zhang
13:45	Tracking fall migration of Bank Swallows (<i>Riparia riparia</i>) from across Canada – insights from automated radio telemetry S Endenburg PA: Sarah Endenburg	*NA-POPS: Point count offsets for estimating population sizes of North American landbirds B Edwards, A Smith, T Docherty, M Gahbauer, C Gillespie, A Grinde, T Harmer, D Iles, S Matsuoka, N Michel, A Murray, G Niemi, J Pasher, D Pavlacky Jr PA: Brandon Edwards	Comparing nestling diet, condition, and post-fledging survival of Barn and Tree Swallows across an agricultural gradient A Diaz, C Morrissey, K Hobson PA: Ana Maria Diaz	Diet macronutrient composition affects pathology and feeding behavior of <i>Serinus canaria</i> facing an immune challenge W Perrine, S DuRant, A Love, E Sauer, A Morris PA: Weston Perrine
14:00	Quantifying shorebird migration pathways through Atlantic Canada using automated telemetry: a community perspective D de Zwaan, H Mann, A Hjort Toms, R Linhart, E Geldart, S Davis, J Arsenault, P Doiron, J Paquet, D Hamilton PA: Devin de Zwaan	An integrated modeling framework for broad-scale spatial prediction and population estimation from varying survey protocols E Knight, A Drake, P Solymos, D Stralberg, T Docherty, A Crosby, E Bayne, S Song, S Cumming, F Schmiegelow PA: Erin Bayne	Aerial Insectivore responses to insecticides in agricultural working landscapes B Han, C Morrissey PA: Biyao Han	*Influence of a previous infection on <i>Mycoplasma gallisepticum</i> transmission and long-term immunity in canaries. M Sudnick, E Sauer, S DuRant PA: Madeline Sudnick
14:15	Lake-crossing behavior of migratory songbirds: Assessing potential collision risk with offshore wind on Lake Erie Z Korpi, S Matthews, R Jacob, M McDermott, D Russell, M Shieldcastle, M Shumar, C Tonra PA: Zoe Korpi	Incorporating point counts and breeding behavior in a joint spatial density framework for bird atlases E Adams, G Mittelhauser, A Leppold PA: Evan Adams	The interacting effects of temperature and row-cropping on the breeding productivity of a threatened aerial insectivore D Garrett, G Mitchell, M Cadman, J Kusack, D Evans, K Bumelis, B Garcia-Perez, A Salvadori, S Wilson, K Hobson PA: Greg Mitchell	Assessing spatiotemporal risk of avian influenza spillover events from wild waterfowl into domestic poultry C Kent, J Mullinax, J Sullivan, K Patyk, M McCool-Eye, A Fox, D Prosser PA: Cody Kent
14:30	Investigating spring migration timing and stopover duration of Sora and Virginia Rail using automated telemetry C Cremer PA: Chad Cremer	Improving estimates of breeding bird distributions through integrated analysis of checklists and point counts D Iles, S Van Wilgenburg, A Couturier, D Evans, C Francis, A Smith PA: David Iles	Post-breeding survival of adult and hatch-year Bank Swallow (<i>Riparia riparia</i>) in the Great Lakes ecoregion C Buchanan-Fraser, Y Morbey, G Mitchell PA: Christian Buchanan-Fraser	Development of a prototype early warning system for avian influenza in the EU based on risk-mapping H Sierdsema PA: Henk Sierdsema
14:45	The gift that keeps on giving: Motus reveals overwinter space use and survival of Canada Warbler (<i>Cardellina canadensis</i>) A Gonzalez, N Espejo, A Caguazango, C Gonzalez Prieto, N Bayly, K Hobson, P Marra, S Wilson PA: Ana Gonzalez	Discussion	The influence of ALAN on the flight paths of a nocturnal migrant, Eastern Whip-poor-will (<i>Antrostomus vociferus</i>) S Thompson, A Korpach, C Davy, K Fraser PA: Stephanie Thompson	Population genomics of O'ahu 'amakihi before and after the introduction of avian malaria A Henschen, A Kearns, M Ochirbat, L Cassin-Sackett, M Medeiros, J Neddermeyer, J Foster, E Paxton, M Campana, R Fleischer PA: Amberleigh Henschen
15:00	Coffee Break			

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Thursday early afternoon, 10 August 2023, 13:30–15:00

	5: Salon H	6: Salon G	7: Salon E
Session	Contributed papers: Genomics 2 Moderator: Sabrina Taylor	Contributed papers: Migration biology 2 Moderator: Nathan Senner	Contributed papers: Grassland birds 2 Moderator: Geoff Holroyd
13:30	*Sexual selection and gene duplication in an immune system gene complex P Rivers, P Bolton, E DuVal PA: Pearl Rivers	The importance of the Amazon Basin for Nearctic breeding shorebirds during southward migration J Linscott, E Basso, R Bathrick, J Aldabe, J Bosi de Almeida, A Anderson, F Angulo, B Ballard, J Biagi PA: Nathan Senner	Conservation Actions to Benefit Burrowing Owls in the Canadian Prairies G Holroyd, H Trefry, S Liccioli PA: Geoff Holroyd
13:45	Fine- and broad-scale population differentiation in New Zealand Fernbirds S Taylor, A Settelecowski, N Torr, B Robertson PA: Sabrina Taylor	*Examining migratory flight performance in Black-throated Blue Warblers using Motus Wildlife Tracking System P Rokitnicki, Y Morbey PA: Patricia Rokitnicki	Conversion of CRP Grasslands to Cropland, Grazing Land, or Hayland: Effects on Breeding Bird Abundances. L Igl, D Buhl, D Johnson, M Post van der Burg PA: Lawrence Igl
14:00	*Selection for genes underlying Bergmann's Rule K Carbeck, P Arcese, I Lovette, C Pruitt, K Winker, J Walsh PA: Katherine Carbeck	Post-breeding migration departure timing in Whimbrels breeding in the Hudson Bay Lowlands A Ausems, G Brown, H Mackellar, E Nol PA: Anne Ausems	Tracking grasslands birds with automated telemetry reveals clues about post-fledging habitat usage B Rigley, J Kolowski, J Stabach, B Evans, D Luther, A Johnson PA: Bernadette Rigley
14:15	Inferring the phylogenetic history of the Buzzing Flowerpecker despite extensive ILS and ongoing gene flow D DeRaad, L DeCicco, R Moyle PA: Devon DeRaad	*Flexibility in the Face of Climate Change? Shifts in Hudsonian godwit Migration Timing L Puleo, M Stager, N Senner PA: Lauren Puleo	*The effects of native plant cover on avian physiological indicators of habitat quality in California coastal rangelands M Ybarra, M Johnson, X Moura PA: Madeleine Ybarra
14:30	*Genomic architecture of local adaptation in a coastal Song Sparrow subspecies J Clark, H Lim, B Olsen, A Kovach PA: Jonathan Clark	Using Weather Surveillance Radar to describe phenology of offshore migration with application to wind farms in the US S Curley, A Farnsworth, A Dokter PA: Shannon Curley	
14:45	*Evidence for widespread genomic inversions without phenotypic breaks in passerine birds T Pegan, A Kimmitt, B Winger PA: Teresa Pegan	*Flight altitudes of arriving spring migrants in the Gulf of Mexico region. V Halterman, A Dokter, A Farnsworth, B Van Doren PA: Virginia Halterman	
15:00	Coffee Break		

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Thursday late afternoon, 10 August 2023, 15:30–17:00

	1: Salon D	2: Salon B1	3: Salon E	4: Salon H
Session	Symposium: S Automated radio telemetry 3 Moderator: Nathan Cooper	Symposium: S Aerial Insectivores 2 Moderator: Ann McKellar	Contributed papers: Public engagement & Social science 1 Moderator: Ashley Dayer	Contributed papers: Genomics 3 Moderator: Pearl Rivers
15:30	Survival debt: Kirtland's Warblers pay the costs of winter conditions during migration and breeding. S Yanco, N Cooper, P Marra PA: Scott Yanco	Climate change impacts on aerial insectivores roosting phenology at the Great Lakes Y Deng, M Belotti, B Haest, W Zhao, G Perez, E Tielens, J Kelly, S Maji, D Sheldon, K Horton PA: Yuting Deng	Identifying social science opportunities for bird conservation efforts A Dayer, C Wilsey PA: Ashley Dayer	*Phenotypic and genomic variation in five subspecies of Song Sparrow (<i>Melospiza melodia</i>) in Alaska C Oliver Brown, K Collier, K Mills, F Spaulding, T Glenn, C Pruitt, K Winker PA: Caitlyn Oliver Brown
15:45	Hidden Space Use Behavior of a Nonbreeding Migratory bird: The Role of Environment and Social Context. B Dossman, A Rodewald, P Marra PA: Bryant Dossman	*Prey selection by breeding and non-breeding Common Nighthawks (<i>Chordeiles minor</i>) across fire management regimes E Stein, K Cockle, N Fariña, O Villalba, G Zubárn, J Cox, D Baldo, S Taylor PA: Eliza Stein	Leveraging citizen science data to fill knowledge gaps for sea ducks S Gutowsky, M Mallory, G Robertson, N McLellan, S Gilliland PA: Sarah Gutowsky	Conservation management of hill pigeons facing local extinction and interspecific hybridization in South Korea J Kim, Y Lee, S Kang, J Yoon PA: Jin-Yong Kim
16:00	Activity patterns of birds as determined by automated radio telemetry: when, where and why birds become active. M Ward, I Souza-Cole, M Avara, C Cremer, A Fournier, N Suckow, F Vega-Reyes, L Chapa-Vargas, A Celis-Murillo, S Stewart, G Witynski PA: Mike Ward	*Comparing the diets of eastern swallows and flycatchers breeding in agricultural and wetland habitats P Nancekivell, J Nocera PA: Pat Nancekivell	Establishment of a long-term banding program for migratory birds in Island Contoy National Park, México. J Nochebuena Jaramillo, M Gaytán Niñez PA: Jonathan Nochebuena Jaramillo	Group size and territory quality are fledging success trade-offs in the Smooth-billed Ani (<i>Crotophaga ani</i>) J Quinn, C Lentz, B Bolker , PA: James Quinn
16:15	Hierarchical Bayesian models for the estimation of migratory flight duration in passersines Y Morbey, S Bonner PA: Yolanda Morbey	*Identifying key roost sites and their connectivity for swallows S Fensore, J Nocera PA: Sarah Fensore	Shorebird conservation through capacity building at the Flyway scale: the Coastal Solutions model. O Hinojosa-Huerta, V Ruiz-Gutierrez, D Ochoa PA: Osvel Hinojosa-Huerta	Neurogenomics of competition and parental care in a socially polyandrous shorebird T Patton, S Lipschutz, A Ehrie, Q Thomas, E George, KA Rosvall , PA: Tessa Patton
16:30	Using Motus to inform movement models of migratory birds: Approaches and considerations for array design C Rushing PA: Clark Rushing	The influence of neighbor on reproductive success of mountain bluebirds and tree swallows S Joly, A McKellar, N Flood, R Moller, S Mahoney, M Reudink PA: Stephen Joly		*Machine learning and genomics: Using neural networks for population assignment of a threatened migratory seabird H Lounder, K Birkhead, C Boccia, R Ronconi, V Friesen PA: Heather Lounder
16:45	Maximizing automated telemetry data: assessing multiple ecological questions through tag deployments in the Neotropics N Bayly, C Gomez PA: Nicholas Bayly	Protecting Chimney Swift habitat through municipal engagement and landowner stewardship in working landscapes R Hoeg, G Sorenson, A Manthorne PA: Rielle Hoeg		
17:00	End of Session			

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Thursday late afternoon, 10 August 2023, 15:30–17:00

	5: Salon G	6: Salon J	7: Salon B
Session	Contributed papers: Annual cycle 1 Moderator: Benjamin Winger	Contributed papers: Behavior 2 Moderator: Michael Granatosky	Contributed papers: Breeding biology 2 Moderator: Scott Sakaluk
15:30	*Distribution and migration chronology of a rapidly increasing population of Sandhill Cranes (<i>Antigone canadensis</i>) K McLean, C Sharp, C Lepage, K Lee, B Fedy PA: Kelly McLean	Previously undescribed behaviors of Afrotropical ant-following birds suggest specialization on <i>Dorylus</i> driver ants P Rodrigues, H Pollock, L Powell, G Rhyne, P Stouffer PA: Patricia Rodrigues	Experimental alteration of male parental care reveals benefits of pairing with good fathers in a wild bird population K Miller, A Mueller, A Atkins Coleman, K O'Neil, E Bowers PA: Kelly Miller
15:45	Estimating annual survival from sparse data: a case study using wood warblers breeding in North America T Arnold PA: Todd Arnold	*Fear of predators has enduring effects on the avian brain and behaviour L Witterick, S MacDougall-Shackleton, M Clinchy, L Zanette PA: Lauren Witterick	Provisioning Rates, Nestling Growth Rates and Pre-Fledge Body Condition in Boreal Chickadees K Snow, S Kolbe, A Grinde, M Windmuller-Campione PA: Alexis Grinde
16:00	Evolutionary integration of the geography and pacing of the annual cycle in migratory birds B Winger, F La Sorte, T Pegan, M Hack PA: Benjamin Winger	Using Referential Alarm Calls to Investigate Mental Time Travel in Free-living Songbirds K Kelly, E Branch, M Hauber, S Gill PA: Karla Kelly	Risk assessment during nest defense against three simulated predators by female House Wrens (<i>Troglodytes aedon aedon</i>) D Reichard, J Fornara, R Eggleston PA: Dustin Reichard
16:15	Assessing breeding to nonbreeding carry-over effects in the American Redstart through feather quality I Ciaburri, B Dossman, P Marra, M Reudink, C Tonra PA: Ivy Ciaburri	Does the parrot tongue serve as a mechanoreceptor during tripodal locomotion? M Granatosky, M Young, J Virga, E Dickinson PA: Michael Granatosky	An automated weighing system reveals interbrood differences in timing of mass loss in breeding female European starlings B Hodinka, T Williams PA: Brett Hodinka
16:30	*Post-breeding ecology in the Prothonotary Warbler: Evaluating potential trade-offs between breeding, molt, and migration B Tsuru, E Ames, C Tonra PA: Brian Tsuru	Migration distance covaries with exploratory behaviour in Song Sparrows C Posliff, G Casbourn, S MacDougall-Shackleton, B MacDougall-Shackleton PA: Beth MacDougall-Shackleton	Transgenerational effects of experimentally increased maternal corticosterone in a wild bird population S Sakaluk, R DiSciullo, P Duncan, M Rittinger, C Poppe, E Bowers, R Bowden, C Thompson PA: Scott Sakaluk
16:45	Seasonal macro-demography of North American bird populations revealed through citizen science and radar monitoring J Socolar, B Galtbalt, F La Sorte, K Rosenberg, A Johnston, A Dokter PA: Adriaan Dokter		*Experimental evidence that egg-laying order impacts growth of American Robin nestlings S Winnicki, T Benson, M Hauber PA: Sarah Winnicki
17:00	End of Session		

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Friday morning, 11 August 2023, 10:30–12:00

	1: Salon B	2: Salon B1	3: Salon D	4: Salon G
Session	Symposium: S Golden-Winged Warbler 1 Moderator: Amber Roth	Symposium: S Birds and ectosymbiotic arthropods 1 Moderator: Heather Proctor	Contributed papers: Public engagement & Social science 2 Moderator: Maggie MacPherson	Contributed papers: Migration physiology Moderator: Scott McWilliams
10:30	Twenty years of achievements by the Golden-winged Warbler Working Group A Roth, R Bennett PA: Amber Roth	Diversification and biogeography of a globetrotting group of parasitic lice from doves A Sweet, J Doma, K Johnson PA: Andrew Sweet	The Bird-Friendliness Index, an outcome-based indicator of conservation impact I Cook, K Hawkshaw, K Drake, J McManus, S Jenniskens, B Robinson, R Fisher PA: Ian Cook	Effects of site and migration season on the consumption of biofilm and essential fatty acids in Western Sandpipers S Walters, C Guglielmo, K Hobson PA: Scott Walters
10:45	Emerging genomic patterns of Vermivora warblers D Toews PA: David Toews	*Population genomics among mainland and island chewing lice (<i>Physconelloides eurysema</i>) from <i>Columbina passerina</i> P Brewer, A Sweet PA: Paige Brewer	Stewardship responsibility of public lands for bird conservation A Rodewald, F La Sorte, C Davis, A Stillman, V Ruiz-Gutierrez, D Fink, W Hochachka PA: Amanda Rodewald	*Nocturnal heterothermy use in four North American songbird species during migration R Leys, L McGuire PA: Ryan Leys
11:00	Exposure to risk factors experienced during migration is not associated with recent Vermivora warbler population trends G Kramer, D Andersen, D Buehler, P Wood, S Peterson, J Lehman, K Aldinger PA: Gunnar Kramer	*Population genetics of ectoparasitic feather lice (Insecta: Philopteridae) from hybridizing songbirds (genus <i>Tyrannus</i>) A Worm, E Donahue, T Boves, A Sweet PA: Alexander Worm	The science behind Audubon's 2023-2028 strategic plan C Wilsey PA: Chad Wilsey	Consumed dietary antioxidants make it to where they are needed most (the mitochondria) but only if birds are exercising C Cooper-Mullin, W Carter, R Amato, D Podlesak, S McWilliams PA: Scott McWilliams
11:15	Golden-winged Warbler productivity in Minnesota A Grinde, B Howland, S Nelson PA: Brett Howland	Introgression dynamics in bird feather lice J Doña, K Johnson PA: Jorge Doña	Cross-Border Bird Conservation with Climate Change: Co-Production to Overcome Ecological and Jurisdictional Complexity M MacPherson, A Crosby, L Rowse, S Graff, D Sleep, J Tremblay, S Cumming PA: Maggie MacPherson	Is the hypoxic chemoreflex altered in long-distance migratory warblers? C Ivy, K Young, C Guglielmo PA: Catherine Ivy
11:30	Estimating Golden-winged Warbler adult apparent survival based on range-wide capture-recapture data E Filiberti, A Roth, E Royal, W Thogmartin, D Crawford PA: Emily Filiberti	Does the avian pectinate claw control ectoparasites? H Warr, M Waller, S Bush, D Clayton PA: Hannah Warr	Some history and new data on changing eponymous English bird names K Winker PA: Kevin Winker	Pump it up: The role of calcium pumping in the migratory and cold-temperature phenotypes of songbirds C Elowe, M Stager, A Gerson PA: Cory Elowe
11:45	Integrating spatially explicit trends and demographic data to assess drivers of Golden-winged warbler population change E Royal, A Smith, D Crawford, W Thogmartin, A Roth PA: Ethan Royal	Avian grooming rates vary in time and space and predict survival. S Bush, M Waller, D Clayton PA: Sarah Bush		Marine biofilm-derived polyunsaturated fatty acids reduce endurance flight energy expenditure of a migratory shorebird M Dick, S Lupi, K Young, S Walters, K Hobson, C Guglielmo PA: Christopher Guglielmo
12:00	Lunch Break			

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Friday morning, 11 August 2023, 10:30–12:00

	5: Salon H	6: Salon J	7: Salon E
Session	Contributed papers: Breeding habitat Moderator: Olivia Wang	Contributed papers: Community ecology 2 Moderator: Jonah Dominguez	Contributed papers: Climate change 2 Moderator: Ryan Buron
10:30	*Breeding ecology and management of Pueo (Hawaiian Short-eared Owl; <i>Asio flammeus sandwichensis</i>) O Wang, C Wilhite, M Garcia-Heras, M Price PA: Olivia Wang	*Widespread heterogeneity in raptor communities suggests multifaceted drivers of assembly that vary over space and time. S Hejmadi, F Barker PA: Shanta Hejmadi	Dependency of climate-driven changes in shape on changes in size T Dias, M Zimova, B Weeks PA: Tiffany Dias
10:45	*Why did the sparrow cross the dike? Trade-offs for a saltmarsh specialist breeding in human-made dikelands K Owen, M Mallory, N McLellan, J Nocera PA: Kiirsti Owen	Evaluating landbird community metrics and survey effort at small-scale monitoring sites in Indiana B West, M Wildhaber, N Green, J Isanhart, M McDonald, M Hooper PA: Benjamin West	Field-validated species distribution model of Canada Warbler in Northwestern Ontario. V Cupiche Herrera PA: Vianney Cupiche Herrera
11:00	*The influence of atmospheric conditions on airspace usage by aerial insectivores V Simons, E Bridge, A Abbott, K Horton PA: Victoria Simons	Non-native invasive plants support similar arthropod biomass and quality, and are foraged on by birds as intensively as native plants in a Connecticut, USA forest R Clark, W Carter, T Ku, C Seewagen PA: Chad Seewagen	Thermoregulation of understory birds in lowland Amazonia V Jirinec PA: Vitek Jirinec
11:15	Impacts of vegetation encroachment on American Oystercatcher nest-site selection and reproductive success T MacLaurin PA: Trevor MacLaurin	*With friends like these: A global synthesis of disturbance-based foraging associations of birds J Dominguez, M Hauber, C Tarwater, E Williams, S Macdonald, H Pollock PA: Jonah Dominguez	Body size shifts in North American birds since the Late Pleistocene O Takano PA: Oona Takano
11:30	Spatial Use of Breeding Female Painted Buntings (<i>Passerina ciris</i>): Documentation of the Use of Multiple Male Territories K Ceynar, J Bednarz, A Gregory PA: Katherine Ceynar	*Floating seagrass rafts as natural alternative roosting habitat for shorebirds J Garcia Walther, D Portillo Zavala, N Senner PA: Julian Garcia Walther	A framework to support the identification of critical habitat for wide-ranging species at risk under climate change L Leston, F Denes, T Docherty, J Tremblay, Y Boulanger, S Van Wilgenburg, D Stralberg, P Solymos PA: Lionel Leston
11:45		*Seasonal patterns and drivers of avian functional diversity across Eastern North America S Keyser, D Fink, J Pauli, B Zuckerberg PA: Spencer Keyser	*Influence of functional traits on the sensitivity of aerial insectivores' migration timing to climate change A Strand, J Kelly, C Youngflesh PA: Alva Strand
12:00	Lunch Break		

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Friday lunch session, 11 August 2023, 12:00–13:30

	1: Ballroom 4 & 5	2: Salon C2 & C3
12:00	<p>Roundtable Discussion: Bird Name-a-thon: Categorizing bird names using crowdsourcing</p> <p>Organizers: Erin Morrison & Allison Shultz</p>	<p>Roundtable Discussion: Solutions-oriented avian conservation research</p> <p>Organizers: Rachel Buxton & Miguel Jimenez</p>
13:30	Early Afternoon Session	

Friday early afternoon, 11 August 2023, 13:30–15:00

	1: Salon B	2: Salon B1	3: Salon H	4: Salon G
Session	Symposium: S Golden-Winged Warbler 2 Moderator: Amber Roth	Symposium: S Birds and ectosymbiotic arthropods 2 Moderator: Heather Proctor	Symposium: S Birds as sentinels 1 Moderator: James Rivers	Contributed papers: Physiology 1 Moderator: Garth Casbourn
13:30	NRCS Working Lands for Wildlife: delivering conservation science on private land in the Appalachian Conservation Region J Larkin PA: Kristin Fuoco	Understanding movement and dispersal of seabird ticks and their eco-evolutionary consequences K McCoy PA: Karen McCoy	Bird communities reveal the homogenization of eastern North American forests D King, M Akresh, J Larkin, A D'Amato PA: David King	Sensory modalities used by Downy Woodpeckers (<i>Dryobates pubescens</i>) to find food: A captive study J Kellam PA: James Kellam
13:45	Using Aerial LiDAR to Assess Regional Availability of Potential Habitat for a Conservation Dependent Forest Bird D McNeil, G Fisher, C Fiss, A Elmore, M Fitzpatrick, J Atkins, J Cohen, J Larkin PA: Darin McNeil	Geographical variation in ectosymbiont assemblages of birds: influences of climate and history H Proctor PA: Heather Proctor	Cumulative impact of climate change and forest management on bird communities in mixed and boreal forests in Québec J Tremblay, G Labadie, P Cadieux, I Thiffault, D Cyr, D Stralberg, Y Boulanger PA: Junior A. Tremblay	*Investigating the role of testosterone in regulating the post-fledging behaviours of juvenile migrant songbirds G Casbourn, C Posliff, C Henry, B MacDougall-Shackleton, S MacDougall-Shackleton PA: Garth Casbourn
14:00	Lessons learned from long-term monitoring of Vermivora populations in the Southern Appalachians L Bulluck, C Kelly, C Smalling, D Buehler PA: Lesley Bulluck	Effects of nest microclimate and ectoparasite abundance on altricial nestling growth and development K Stansberry, R Stephens, E Forman, M Kimball, T Kelly, C Lattin PA: Keegan Stansberry	Incorporating pyrodiversity into woodpecker habitat assessments after fire A Stillman, R Wilkerson, D Kaschube, R Siegel, S Sawyer, M Tingley PA: Andrew Stillman	*The physiology of torpor in ruby-throated hummingbirds A Hutchinson, C Guglielmo PA: Amalie Hutchinson
14:15	Golden-winged Warbler conservation, habitat implementation, and community outreach with land trusts in the Northeast S Barker, M LaBarr PA: Sara Barker	*Evaluating feather mite diet to classify the nature of their symbiosis with avian hosts: are mites picky eaters? A Matthews, B Trevelline, A Wijeratne, T Boves PA: Alix Matthews	*Importance of green unburned forest for fire-associated birds in the megafire era M Kerstens, J Rivers PA: Mark Kerstens	Hummingbird blood traits track oxygen availability across space and time J Williamson, E Linck, E Bautista, A Smiley, J McGuire, R Dudley, C Witt PA: Jessie Williamson
14:30	Golden-winged Warbler Habitat Management on Public and Private Lands in the Great Lakes Region L Rowse, P Dieser PA: Linnea Rowse	Assessing the impact of feather mites using an experiment involving hosts that harbor specialist and generalist mites T Boves, A Matthews PA: Than Boves	*Boreal bird irruptions as indicators of altered climate variability I Widick, M Young, J LaMontagne, C Strong, B Zuckerberg PA: Ivy Widick	Experimental cold exposure in adulthood increases the glucocorticoid sensitivity to future stressors J Houtz, M Vitousek, M Pipkin, D Chang van Oordt, K Hallinger, J Uehling, C Zimmer, C Taff PA: Jennifer Houtz
14:45	Panel Discussion #1: A discussion of conservation decision making and implementation on the breeding grounds	Discussion	Emerging forest megadisturbances and the conservation of spotted owls G Jones, M Peery PA: Gavin Jones	
15:00	Coffee Break			

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Friday early afternoon, 11 August 2023, 13:30–15:00

	5: Salon E	6: Salon D	7: Salon J
Session	Contributed papers: Population biology 1 Moderator: Thomas Benson	Contributed papers: Anthropogenic impacts 1 Moderator: Solange Mekuate Kamga	Contributed papers: Song & Vocalizations 2 Moderator: Rachael DiSciullo
13:30	The Group Composition and Dynamics of a Cooperatively Breeding Population of Harris's Hawks in South Texas B Poplin, J Bednarz, A Gibbons, W Clark PA: Brooke Poplin	Breeding season selection of anthropogenic resources varies across pre-breeding movement modes in the white ibis. C Gulick, K Zhang, A Powell PA: Chris Gulick	*Investigating the relationship between ancestry and song repertoire in a chickadee hybrid zone S Palmer, J McEntee PA: Shelby Palmer
13:45	Survival of Eastern Whip-poor-will (<i>Antrostomus vociferus</i>) young from incubation to independence S Stewart, I Souza-Cole, M Ward, T Benson PA: Thomas Benson	What evidence exists on the effects of anthropogenic land use on colonially breeding Saunders's gulls? S Lee, J Yoon PA: Seon-Ju Lee	*All quiet on the nestling front: the nest environment attenuates Savannah Sparrow song S Dobney, M Bornais, R Norris, A Newman, H Williams, S Doucet, D Mennill PA: Sarah Dobney
14:00	*Exploring density dependence in cavity nesting ducks: Insights from 35 years of nesting data J Sonneitner, N McLellan, J Nocera PA: Jared Sonneitner		*Variation in Ovenbird (<i>Seiurus aurocapilla</i>) flight song composition is related to breeding stage C Acorn, J Foote PA: Connor Acorn
14:15	Status and reproduction of a Caribbean Brown Pelican subpopulation in northwestern Puerto Rico A Tossas PA: Adrianne Tossas	Does the colonisation of guilds of native avian biodiversity differ among the types of invasive tree stands? J Varughese, R Chanda, C Harikrishnan, S Lawrence, M Mubeen, D Jathanna, V Robin PA: Jobin Varughese	Song evolution in Antpittas (Aves: Grallariidae), morphology and frequency not always go together N Niño, G Bravo, A Cuervo, O Laverde PA: Nelsy Niño
14:30	Winter population trends and environmental drivers for three species of temperate shorebirds E Muñoz Salas, E Palacios, L Alfaro, M Reiter PA: Estefania Muñoz Salas	*Anthropogenic hybridization within a community of multiple endangered parrot species: What does the future hold? S Kiacz, W Grant, H Wang, D Brightsmith PA: Simon Kiacz	Exploring population-level song signatures in a bird endemic to the sky islands of the Western Ghats of India C Arvind, S Sawant, V Robin PA: Chiti Arvind
14:45	Yellow-billed Cuckoo (<i>Coccyzus americanus</i>) population dynamics on the South Fork Kern River, California. M Whitfield, A Meyer, N Jamie-Escalante, S Robinson, J Stanek PA: Mary Whitfield	Complexity matters when investigating relationships between birds, insects, and pesticides N Michel, T Meehan PA: Nicole Michel	*Sexy song? Northern house wren (<i>Troglodytes aedon</i>) males that sing more close-communication song sire more recruits R DiSciullo, A Forsman, R Fitak, J Hunt, P Nietlisbach, C Thompson, S Sakaluk PA: Rachael DiSciullo
15:00	Coffee Break		

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Friday late afternoon, 11 August 2023, 15:30–17:00

	1: Salon B	2: Salon H	3: Salon D	4: Salon B1
Session	Symposium: S Golden-Winged Warbler 3 Moderator: Amber Roth	Symposium: S Birds as sentinels 2 Moderator: James Rivers	Contributed papers: Anthropogenic Impacts 2 Moderator: Rory Macklin	Contributed papers: Evolution 4 Moderator: Jessie Salter
15:30	Golden-winged Warbler overwintering ecology: A synthesis to guide conservation planning and investment R Bennett PA: Ruth Bennett	Ongoing forest fragmentation negatively affects the distribution of an endangered forest-breeding bird J Valente, J Rivers, Z Yang, K Nelson, J Northrup, D Roby, C Meyer, M Betts PA: Jonathon Valente	Determining the effects of glass visual properties on avian window collisions Q Jamison, S Smith, D Hanley, D Luther PA: Quentin Jamison	A quantitative test of Gloger's Rule and its underlying mechanisms in Northern Bobwhites (<i>Colinus virginianus</i>) J Salter, B Higa, C Mason, K Bell, A Shultz PA: Jessie Salter
15:45	Afforestation efforts for golden-winged warblers and other forest-associated species in Honduras D Murillo, D King, R Bennett, F Rodriguez Vasquez, J Larkin PA: David King	Influence of a warming ocean on the breeding activity of a most unusual – and threatened – forest-nesting bird J Rivers, L Adrean, J Bailey Guerrero, J Dachsenhaus, J Fisher, C Frisinger, M Garcia-Heras, B Gerber, C Meyer, K Nelson, J Northrup, D Roby, J Valente, C Wolf, E Woodis PA: James Rivers	*The width effects: Response of songbird communities to linear features of varying width in the boreal forest of Alberta T Kalukapuge, J Martinez-Lanfranco, L Leston, E Bayne PA: Tharindu Kalukapuge	Gut microbiome variation across the Vermivora warbler hybrid zone M Baiz, A Wood, D Toews PA: Marcella Baiz
16:00	Site and landscape investments for safeguarding habitat for Golden-winged Warbler and other migratory land birds E Montenegro, S Morales, B Stewart, I Davidson PA: Eliana Montenegro	Shifting seasons: Migratory bird responses to changing seasonal events tells us about the resilience of our forests S Kaiser, M Hallworth, M Webster, S Sillett PA: Sara Kaiser	*Evaluating the effects of investigator disturbance on the activity level of wintering Ammospiza sparrows M Buddy, M West, R Danner PA: Miles Buddy	The genetic architecture of reversible plasticity in a complex physiological trait M Stager, S Taylor PA: Maria Stager
16:15	The mid-elevation forest Conservation Investment Strategy: a spatial prioritization for wintering Golden-winged Warblers N Bayly, A Gonzalez-Prieto, C Gomez, J Sandino, B Stewart, R Dettmers PA: Nicholas Bayly	Habitat associations and molt strategy mediate drought and monsoon rain timing effects on Southwestern bird densities H Jones, C Ray, M Johnson, R Siegel PA: Harrison Jones	*Sitting ducks: Landscape factors, impacts, and management for black vulture conflicts near animal care facilities H Partridge, S Gagné, C Hammelman PA: Hannah Partridge	Allochronic speciation with gene flow? Genomics of parallel breeding time divergence among storm-petrels (Hydrobatidae) G Yoo, C Boccia, R Taylor, M Bolton, J González-Solís, V Friesen PA: Gihyun Yoo
16:30	*Golden-winged Warbler winter distribution under current and future climate and land use change scenarios R Brodie, A Roth, J Hightower, B Stewart, N Bayly, S Wilson, A Gonzalez-Prieto PA: Ryan Brodie	Climatic influences on avian food supply in a temperate forest mediated by snow and soil moisture B Walters, E Nol PA: Ben Walters	Investigating the Prevalence and Effects of Agricultural Toxins in Loggerhead Shrikes in Arkansas, USA E Donahue, A Worm, B DeGregorio, L Neuman-Lee, T Boves PA: Emily Donahue	Complex evolutionary history of recently diverged sympatric <i>Phylloscopus</i> warblers on Kolombangara Is., Solomon Islands L DeCicco, D DeRaad, P Sweet, R Moyle PA: Lucas DeCicco
16:45	Panel Discussion #2: A discussion of conservation decision making and implementation on the non-breeding grounds	Invasive species removal halts long-term population declines of the northern spotted owl D Wiens, K Dugger, M Higley, D Lesmeister, A Franklin, K Hamm PA: David Wiens	*Roads as Barriers to California Quail (<i>Callipepla californica</i>) Gene Flow in the Santa Monica Mountains, Los Angeles J Curti, B Shaffer, S Riley PA: Joseph Curti	Indirect genetic effects across life cycle stages in a cooperatively breeding bird G Spitz, E Cosgrove, R Bowman, J Fitzpatrick, A Clark, N Chen PA: Nancy Chen
17:00	End of Session			

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Friday late afternoon, 11 August 2023, 15:30–17:00

	5: Salon J	6: Salon E	7: Salon G
Session	Contributed papers: Migration biology 3 Moderator: Andrew Beauchamp	Contributed papers: Population biology 2 Moderator: Jeffrey Brawn	Contributed papers: Physiology 2 Moderator: Brian Trevelline
15:30	*The evolution of alternate migration routes in high-latitude myrtle warblers (<i>Setophaga coronata coronata</i>) S Szarmach, D Pierce, A Brelsford, D Toews PA: Stephanie Szarmach	*Impacts of increasing isolation and environmental variation on Florida Scrub-Jay demography J Summers, E Cosgrove, R Bowman, J Fitzpatrick, S Schoech, N Chen PA: Jeremy Summers	Differential gene expression between torpor and normothermy in four brain regions in Anna's hummingbirds (<i>Calypte anna</i>) S Wolfe, E Blackwell, N Prior, D Powers, A Shankar PA: Sophia Wolfe
15:45	Space weather disrupts bird migration detected by radar E Gulson-Castillo, C Langebrake, B Van Doren, M Liedvogel, D Heyers, H Mouritsen, B Winger PA: Eric Gulson-Castillo	*Breeding season management is unlikely to improve population viability of a data-deficient waterbird species in decline K Davis, S Saunders, S Beilke, E Ford, J Fuller, A Landgraf, E Zipkin PA: Kayla Davis	The gut microbiome influences digestive phenotypes in a wild passerine B Trevelline, J Houtz, C Andreadis, J Sanders, M Rowe, A Moeller PA: Brian Trevelline
16:00	*Climate and Anthropogenic Impacts on the Distribution of Migratory Landbird Stopover Across Texas and Louisiana A Crandall, T Zenzal, R Wilson, J Smolinsky, L Randall, J Buler PA: Amanda Crandall	Wood warbler population dynamics in response to mast seeding regimes in Europe G Pasinelli, F Korner-Nievergelt, J Szymkowiak, N Haas, M Maziarz, G Neubauer, S Buckley Luepold, S Carlotti, M Schaub, M Flade, A Grendelmeier, M Riess, P Stelbrink, N Maag PA: Gilberto Pasinelli	Incubation regime does not explain significant variation in metabolic plasticity among embryos A Cones, E Schneider, D Westneat PA: Alexandra Cones
16:15	Long-term patterns in relative abundance of short- and long-distance migrant Red Knots at Delaware Bay, USA, 2006–2021 J Lyons, H Bellman, P Atkinson, A DeRose-Wilson, G Austin, G Breese, J Clark, R Du Feu, K Kalasz, R Robinson, J Woods, N Clark PA: Jim Lyons	Does density dependence regulate populations of tropical birds? J Brawn, T Benson, J Bauder PA: Jeffrey Brawn	
16:30	*Effects of weather on arrival of migrating landbirds in fall at an inland stopover site in mid-Michigan, USA E Griffis, J DeSimone, J Owen PA: Evan Griffis	Examining changes in prairie shorebird populations in relation to climate and lake habitat characteristics K Caruso, C Morrissey, A McKellar PA: Kayla Caruso	Mitochondrial capacity in two Mimidae species: a migratory and non-migratory comparison E Rhodes, K Yap, G Hill, W Hood PA: Emma Rhodes
16:45		Photo survey reveals differential juvenile vulnerability to harvest in sea duck populations J Hewitt, J Straub, A Roberts PA: Jacob Hewitt	
17:00	End of Session		

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Saturday morning, 12 August 2023, 10:30–12:00

	1: Salon E	2: Salon B	3: Salon G	4: Salon D
Session	Symposium: S Bird-window collisions 1 Moderator: Brendon Samuels	Symposium: S Western migratory Hummingbirds Moderator: Miguel Matta	Contributed papers: Evolution 5 Moderator: Michael Hanson	Contributed papers: Urban ecology 2 Moderator: Rachel Buxton
10:30	Historical perspective of window collisions D Klem PA: Heidi Trudell	Conserving Western Migratory Hummingbirds Throughout Their Lifecycles S Bonfield PA: Susan Bonfield		*Offspring Provisioning Rates in an Urban Passerine: Do they Change with Parental Age? S MacArthur, C Barber PA: Sasha MacArthur
10:45	Revisiting the CSA A460:19 Bird-friendly building design standard M Mesure PA: Michael Mesure	Anthropogenic and mechanistic drivers of contrasting demographic changes in hummingbirds C Bishop, A Gonzalez, J Elliott, A Moran, F Maisonneuve, S English PA: Simon English	Anatomical and ecological adaptation in Hawaiian large-bodied flightless waterfowl in an ontogenetic context M Hanson, H James PA: Michael Hanson	*Experimental evidence for how error rates shape animal communication and the influence of background noise S Smith, B Evans, D Luther PA: Shawn Smith
11:00	American Bird Conservancy's approach to bird-friendly building design ordinances B Lenz PA: Bryan Lenz	Conserving Migratory Hummingbirds on Non-Breeding Sites in Western Mexico S Contreras PA: Sarahy Contreras	Differentiating the effect of latitude versus temperature on passerine body size C Probst, D Fouhey, T Dias, H Skeen, K Alofs, B Weeks PA: Charlotte Probst	Resident, but not migratory, songbird eye size varies with urban-associated light pollution levels T Jones, A Llamas, J Phillips PA: Todd Jones
11:15	American policy landscape for bird friendly buildings and federal collisions initiatives J Gehring, P Toschik, E Kershner PA: Joelle Gehring	Broad-scale benefits of hedge rows for bird populations in agricultural landscapes D de Zwaan, K Hannah, N Alavi, G Mitchell, D Lapen, J Duffe, S Wilson PA: Scott Wilson	The role of glacial cycles on the diversification and speciation of the birds of southern South America D Lijtmaer, B Bukowski, P Lavinia, A Casale, P Fracas, L Campagna, P Tubaro PA: Dario Lijtmaer	*The effects of 120 years of urbanization on the avifauna of the Los Angeles Basin S Lyon, P Ethington, L Hall, T Longcore, S Safran, A Shultz, E Wood PA: Sean Lyon
11:30	Advocating for bird-friendly buildings in post-secondary settings K Anton PA: Krystal Anton	Systemic insecticides neonicotinoids and their replacements: occurrence in hummingbirds and their floral food resources C Bishop, A Gonzalez, J Elliott, A Moran, F Maisonneuve, S English PA: Ana Gonzalez	*Assessing the migratory basis and role of climate in a cryptic mtDNA haplotype contact zone in Audubon's Warblers K Montoya, J Schmitt, A Johnson, S Szarmach, D Toews, C Witt PA: Kyana Montoya	Influence of diet on reproductive success of urban Blue Tits (<i>Cyanistes caeruleus</i>) A Welch, R McConnell, J Makins-Elliott, P Capilla Lasheras, D Dominoni PA: Andreanna Welch
11:45	Working group on bird collisions and modernized Migratory Bird Regulations: some tools to address window collisions J Bourque, C Roy PA: Julie Bourque	Priority Threats to Hummingbirds Lead to Strategic Actions for Conservation M Matta PA: Miguel Matta Pereira	The role of phenotypic traits in mediating elevational replacement in Andean birds E Tenorio, J Merwin, V Tager-Geffner, X Larrieu, B Smith PA: Elkin Tenorio	The relationship between tree and bird diversity and mental health in Canadian cities R Buxton, E Hudgins, T Halsall, E Lavigne, P Villeneuve, S Prince, A Pearson, J Bennett PA: Rachel Buxton
12:00	Lunch Break			

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Saturday morning, 12 August 2023, 10:30–12:00

	5: Salon H	6: Salon J	7: Salon B1
Session	Contributed papers: Breeding biology 3 Moderator: Daniel Hanley	Contributed papers: Annual cycle 2 Moderator: Allison Huysman	Contributed papers: Diet Moderator: Kirsty Gurney
10:30	Habitat use and movements of Boreal Chickadees during the post-fledging period S Kolbe, A Grinde, K Snow, R Slesak, M Windmuller-Campione PA: Stephen Kolbe	*Evaluating the fitness tradeoffs of reproduction across the annual cycle of Greenland white-fronted geese A Schindler, A Fox, C Wikle, B Ballard, A Walsh, S Kelly, M Weegman PA: Alexander Schindler	From presence/absence to reliable prey proportions: A field test of fecal metabarcoding for characterizing seabird diets G Clucas, A Stillman, J Seavey, A Kovach, E Craig PA: Gemma Clucas
10:45	Monitoring Clapper Rail (<i>Rallus crepitans</i>) chick survival and estimating nest survival using a Bayesian framework E Elizondo, H Glasko, G Shriner PA: Elisa Elizondo	Strong migratory connectivity indicates Willets need subspecies-specific conservation strategies A Huysman, N Cooper, J Smith, S Haig, S Heath, L Johnson, E Olson, K Regan, J Wilson, P Marra PA: Allison Huysman	*The indirect effects of a biological insecticide on habitual diet in Bay-breasted and Cape May warblers F Maika, R Johns, M MacIvor, J Nocera PA: Fawn Maika
11:00	A social network analysis of Brown-headed Cowbird (<i>Molothrus ater</i>) movements utilizing an automated telemetry system. M Chamberlain, S Lawson, H Scharf, W Schelsky, M Ward, M Hauber PA: Mac Chamberlain	Estimation of seasonal and annual survival of two Rosy-Finch species using RFID feeders C Cox, J Gardner, K Savides, C Latimer, R Norvell, C Rushing PA: Cody Cox	Evaluating diet of a free-living breeding bird, the Swainson's Thrush (<i>Catharus ustulatus</i>) along an elevation gradient S Deckel, A Gerson, D Narango, D King PA: Sarah Deckel
11:15	Wild gray catbirds lack color constancy D Hanley, C Greenberg, J Villa, A Di Giovanni, L Pistone PA: Daniel Hanley	Mapping hemispheric risk to migratory birds using multi-species migratory connectivity S Saunders, B DeLuca, J Deppe, J Grand, E Knight, T Meehan, N Michel, N Seavy, M Smith, L Taylor, C Wilsey PA: Sarah Saunders	*Are aerial insectivorous birds dependent on aquatic-emergent insects for omega-3 fatty acids? C Genier, C Guglielmo, K Hobson PA: Corrine Génier
11:30	Extreme weather alters nest provisioning rates but not productivity or nestling mass in a temperate forest owl E Stein, S Midway, B Linkhart PA: Eliza Stein	Tropical rainfall determines breeding range dynamics for a long-distance migratory bird. B Dossman, C Studds, S LaDeau, S Sillett, P Marra PA: Bryant Dossman	*Advancing methods of diet analysis: a case study using degraded Merlin (<i>Falco columbarius</i>) prey remains T Coon, V Dreitz, S Lewis, S Painter PA: Taylor Coon
11:45	*Nest structure and climate resilience in birds: A global analysis S Chia, M Tuanmu, W Fagan PA: Stephanie Chia	*High individual consistency in spatiotemporal migratory behaviors of American Herring Gulls across multiple years A Grewal, M Mallory, A Horn, R Ronconi, K Allard, S Craik, S Gutowsky PA: Asha Grewal	DNA-based techniques to assess avian diets: improving inference through validations studies C Desnoyers, K Gurney, J López PA: Kirsty Gurney
12:00	Lunch Break		

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Saturday early afternoon, 12 August 2023, 13:30–15:00

	1: Salon E	2: Salon D	3: Salon H
Session	Symposium: S Bird-window collisions 2 Moderator: Brendon Samuels	Symposium: S Restoration for avian conservation 1 Moderator: David Agro	Contributed papers: Breeding systems Moderator: Allison Johnson
13:30	Lessons learned from a decade of research evaluating bird-window collision risk factors and management approaches S Loss, J Elmore, S Lao, R Lawson, T O'Connell, C Riding, G Riggs PA: Scott Loss	Novel opportunities to benefit Kirtland's Warbler and other Great Lakes fire-based bird communities in Ontario P Burke PA: Peter Burke	Harnessing intraspecific variation in social group size to elucidate ecological correlates of cooperative breeding A Johnson, J Welkin, D Shizuka PA: Allison Johnson
13:45	Survivorship Rates from Bird-Building Collisions and Related Rehabilitation Efforts A Jones, T Jasinski, C Brennan, H Webster, M Shumar PA: Andrew Jones		Cooperative breeding in Harris's Hawks revisited: delayed dispersal and multiple paternity documented in south Texas A Gibbons, J Bednarz, S Hagler, W Clark, J Johnson PA: James Bednarz
14:00	Testing bird window collision prevention technologies B Samuels PA: Brendon Samuels	Ecological Restoration of Critical Habitat for Grassland and Migrant Birds M Gartshore PA: Mary Gartshore	Small-scale land-use changes in a desert environment reduce breeding success in a cooperative breeding bird K Oswald, U Roll, O Berger-Tal PA: Krista Oswald
14:15	The Aesthetics of Bird-Friendly Design J Carley, M Carreño PA: Mauro Carreño	Breeding bird survey results at a 16 year restoration site in Norfolk County, Ontario. D Agro PA: David Agro	The effect of conspecific brood parasitism on incubation length and hatching success in Red-breasted Mergansers E Knighotn, R Titman, N Lecomte, M Mallory, S Craik PA: Emilie Knighotn
14:30	Context is everything: How visual environments & lighting influence glass appearance & collision deterrent efficacy A Sobolev PA: Alexander Sobolev	Build it and they will come: Wetland restoration on Pelee Island, Ontario Canada J Crosthwaite PA: Jill Crosthwaite	A test for imperfect mimicry: host-parasite diffuse coevolution in the brown-headed cowbird system J Villa, Q Jamison, D Hanley PA: Juliana Villa
14:45	An introduction to statistical effect sizes for assessing collision prevention E Fernandez-Juricic PA: Esteban Fernandez-Juricic	Tapping into USDA programs to amplify grassland bird conservation across the state of Virginia J Proctor, B Rigley, J Gilley, A Johnson PA: Justin Proctor	Fear of Feathers: Do nest decorations deter nest usurpation and brood parasitism? M Scerbicke, B Peer PA: Matt Scerbicke
15:00	Coffee Break		

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Saturday early afternoon, 12 August 2023, 13:30–15:00

	4: Salon G	5: Salon J	6: Salon B
Session	Contributed papers: Conservation Moderator: Malcolm Sarfo-Ansere	Contributed papers: Distributions & Ranges 2 Moderator: Wendy Dorman	Contributed papers: Song & Vocalizations 3 Moderator: Sean Roach
13:30	Are tracking data available to inform North American migratory bird conservation? A Scarpignato, A Huysman, M Jimenez, C Witko, A Harrison, N Seavy, M Smith, J Deppe, C Wilsey, P Marra PA: Amy Scarpignato		Widespread Northern Cardinal song elements may facilitate post-dispersal communication in new dialect areas S Halkin PA: Sylvia Halkin
13:45	Status and conservation challenges of globally threatened species of vultures in Pokhara, Nepal. H Dhakal PA: Dinesh Bhusal	Performance of novel remotely-sensed variables in predictive species distribution models for Argentinean forest birds A Olah, V Radeloff, E Silveira, S Martinuzzi, G Martinez Pastur, N Politi, L Rivera, A Pidgeon PA: Ashley Olah	The perception and characterization of acoustic fine structure in bird vocalizations N Prior, M Araya Salas, K Odom, R Dooling PA: Nora Prior
14:00	Waterbird species Diversity and Abundance at Golina Dam, Northern Region - Ghana M Sarfo-Ansere PA: Malcolm Sarfo-Ansere	Avian Range Plasticity Index (RPI): Spatial modeling reveals the mechanisms of avian range shifts. W Dorman, M Ward PA: Wendy Dorman	Song syntax in hermit thrush (<i>Catharus guttatus</i>): What's the point? S Roach, L McLean PA: Sean Roach
14:15	Deploying regional wetland bird monitoring to assess management impacts for the NFWF SOGL Restoration program S Beilke, S Saunders, N Miller PA: Stephanie Beilke	Barriers to gene flow in North American barn swallows T Maddegamgoda Lekamlage, K Kardynal, K Hobson, T Burg PA: Thilini Maddegamgoda Lekamlage	Chorus, solo, and duet distribution in a population of wild African grey parrots (<i>Psittacus erithacus</i>) M Edwards, D Hedwig PA: Maia Edwards
14:30	Birds as indicators of native bee richness J Rousseau, A Johnston, A Rodewald PA: Josée Rousseau	Avifauna Distribution, richness and relative abundance of salt pond habitats on St. John, US Virgin Islands V Beasley, N Angeli PA: Victoria Beasley	Sex-specific song use across breeding stages in a non-duetting Australian passerine K White, C Beckmann PA: Christa Beckmann
14:45		Range-wide Western Yellow-Billed Cuckoo survey results and occupancy estimates J Stanek, M Whitfield, E Juarez, R Norvell, E Duvuvuei, N Clipperton, N Beauregard PA: John Stanek	Local and range-wide patterns of song type variation in Ovenbirds (<i>Seiurus aurocapilla</i>) J Foote, P Jagielski PA: Jennifer Foote
15:00	Coffee Break		

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Saturday late afternoon, 12 August 2023, 15:30–17:00

	1: Salon H	2: Salon D	3: Salon G
Session	Symposium: S Loggerhead Shrike Moderator: Amy Chabot	Symposium: S Restoration for avian conservation 2 Moderator: David Agro	Contributed papers: Phylogenetics & systematics Moderator: David Toews
15:30	Overview of the North American Loggerhead Shrike Working Group's efforts to conserve the eastern Loggerhead Shrike A Chabot, J Steiner, H Wheeler, A Samuelson, J Spero, J Giocomo, A Lymburner PA: Philip Miller	Restoring Habitat Across the Annual Cycle for Kirtland's Warbler S Roels, D Ewert PA: Steven Roels	Phylogenomic analysis and novel taxon of a widespread Amazonian antbird, <i>Myrmoborus myotherinus</i> M Mutchler, A Schoonmaker, B Costa, H Handika, A Hiller, G Lima, B Matinata, J Salter, D Schmitt, B Faircloth, R Brumfield, G Del-Rio PA: Marquette Mutchler
15:45	Simulation models of stochastic metapopulation dynamics in the Loggerhead Shrike of eastern Canada and the United States P Miller, A Chabot, H Wheeler, A Samuelson, J Giocomo, J Spero, J Steiner, A Lymburner PA: Amy Chabot	Restoring migratory bird habitat in working landscapes in Latin America & the Caribbean M Eggers PA: Marci Eggers	The "Parulome" project: Divergence and introgression in a rapid vertebrate radiation D Toews, A Wood, M Baiz, L Phung, I Lovette, A Bruford PA: David Toews
16:00	Full annual cycle modelling to improve Endangered Loggerhead Shrike population management in Ontario H Wheeler, A Chabot, J Steiner, A Samuelson PA: Hazel Wheeler	Ecosystem recovery in the Beni Savana, Bolivia by restoring functioning grasslands and engaging stakeholders B Hennessey PA: Bennett Hennessey	The Rich Mid-Pleistocene Fossil Avifauna of Ulupau Head, Oahu H James, M Spitzer PA: Helen James
16:15	Winter ecology of Loggerhead Shrikes in the Lower Mississippi Alluvial Valley of Arkansas, USA E Donahue, L Bryant, J Wessels, J Youtz, K Krajcir, A Worm, W Guy, B Dunnahoo, J Miranda, A Matthews, T Boves PA: Than Boves	Twenty-five years of habitat restoration to conserve endemic and endangered birds in Ecuador D Parra-Puente PA: David Parra-Puente	The comparative morphology of the avian bony columella G Spellman, J Peacock, D Field, M Mason, G Mayr PA: Garth Spellman
16:30	Discussion	Research needs and employment opportunities relating to restoration management for conservation D Agro PA: David Agro	
16:45			
17:00	End of Session		

* indicates student presenters eligible for a Student Presentation Award; "PA" indicates Presenting Author

Saturday late afternoon, 12 August 2023, 15:30–17:00

	4: Salon J	5: Salon E
Session	Contributed papers: Models Moderator: Ryan Burner	Contributed papers: Conservation/ Agriculture Moderator: Ruth Bennett
15:30	Incorporating automated sound identifications from the Merlin app into species distribution models E Miller, C Gomes, V Ruiz-Gutierrez, G Van Horn, C Wood, D Fink PA: Elliot Miller	Spatial variation in the association between agricultural activities and bird communities in Canada G Betini, E Malaj, C Donkersteeg, A Smith, S Wilson, G Mitchell, R Clark, C BISHOP, L Burns, R Dakin, C Morrissey, N Mahony PA: Nancy Mahony
15:45	Spatially explicit Bayesian hierarchical models for avian population status and trends A Smith, A Binley, L Daly, B Edwards, D Ethier, B Frei, D Iles, T Meehan, N Michel, P Smith PA: Adam C Smith	The importance of agroforestry systems to Blackpoll Warblers during the non-breeding season in Colombia A Morales Rozo, P Taylor, K Hobson, G Colorazo Zuluaga, N Bayly PA: Andrea Morales Rozo
16:00	A joint species distribution model with imperfect detection and species traits R Burner, E Kirsch PA: Ryan Burner	Migrating shorebirds and dabbling ducks increased use of wetlands disturbed by agricultural practices D Toy, M Anteau, A Pearse, E DeKeyser, J Norland, D Roberts PA: Dustin Toy
16:15	BirdFlow: Inferring migratory routes and connectivity from range-wide relative abundance data D Slager, B Van Doren, M Fuentes, E Plunkett, A Farnsworth, D Fink, D Sheldon, A Dokter PA: David Slager	Forest cover drives occupancy of all bird guilds in a Colombian coffee-growing landscape R Bennett, E Botero-Delgadillo PA: Ruth Bennett
16:30		
16:45		
17:00	End of Session	

* indicates student presenters eligible for a Student Presentation Award; "PA" indicates Presenting Author

Posters

Posters (Up to date as of 2 August 2023)

Presenting authors scheduled for **Poster Session 1** are expected to be present at their poster on **Wednesday 9 August, 6:30–8:30 pm**. Presenting authors scheduled for **Poster Session 2** are expected to be present at their poster on **Thursday 10 August, 6:30–8:30 pm**. Posters are listed sequentially by Number within each Session (1-2).

Posters should be set up on their assigned poster board in Ballrooms 1, 2, 7, 8 between 4:00-6:30 pm on Tuesday 8 August. You will need your poster number to find your assigned location. Posters should be removed before 10:30 am on Friday 11 August.

Number	Session	Poster title, authors , and presenting author
1	Poster Session 1	*Seasonal patterns of corticosterone responses in wild male and female black-capped chickadees (<i>Poecile atricapillus</i>) B Parks, A Oprea, L Phillmore – PA: Broderick Parks
3	Poster Session 1	Migratory connectivity and annual cycle contaminant exposure in Horned Grebe (<i>Podiceps auritus</i>) breeding in Canada. C Howell, K Gurney, K Kardynal, E Reed – PA: Kirsty Gurney
5	Poster Session 1	How does variation in predation pressure influence chickadee hissing behavior along an elevation gradient? N Addison, S Taylor – PA: Nicole Addison
7	Poster Session 1	*Exploring Mimicry and Visual Communication in Woodpeckers: A Field Study Utilizing 3D-Printed Models L Smith, G Leighton – PA: Lauren Smith
9	Poster Session 1	Movement ecology and health of urban wildlife: from herbivores to raptors. S Uiterwaal, S Blake, A Dell, J Meshach, S Deem – PA: Stella Uiterwaal
11	Poster Session 1	Signaling function of the female supercilium in the sexually dichromatic Black-throated Blue Warbler A Davidson-Onsgard, S Kaiser – PA: August Davidson-Onsgard
13	Poster Session 1	*Experience the Afrotropics: Virtual reality cameras capture novel behavior in ant-following birds P Rodrigues, L Powell, H Pollock, G Rhyne, P Stouffer – PA: Patricia Rodrigues
15	Poster Session 1	The timing of breeding influences fall migratory behavior of the Black-throated Blue Warbler A Brunner, S Sillett, S Kaiser, M Webster – PA: Alicia Brunner
17	Poster Session 1	Deciphering survival and habitat usage between the breeding and post-breeding periods for Kirtland's Warblers H Haradon, N Cooper – PA: Haley Haradon
19	Poster Session 1	Movement ecology of male and female golden-cheeked warblers (<i>Setophaga chrysoparia</i>) M Gamble, A Long – PA: Michael Gamble
21	Poster Session 1	Bobolink (<i>Dolichonyx oryzivorus</i>) breeding and breeding dispersal patterns in the Wolastoq/Saint John River Valley M Oliver, J Nocera – PA: Meghan Oliver
23	Poster Session 1	Phenological mismatch in the Florida Scrub-Jay (<i>Aphelocoma coerulescens</i>) S Barve, M Heather, A Tringali, N Chen, J Fitzpatrick, R Bowman – PA: Sahas Barve

Number	Session	Poster title, authors , and presenting author
25	Poster Session 1	*Animal Real Estate: Do age, population density, and neighbours influence songbird territory size? S Sharma, S Dobney, R Norris, S Doucet, A Newman, D Mennill – PA: Sarika Sharma
27	Poster Session 1	Exploring Movement Ecology and Demographics of Female Cerulean Warblers (<i>Setophaga cerulea</i>) in the Ozarks and Appalachia J Miranda, J Larkin, D Raybuck, D McNeil, T Boves – PA: Jacob Miranda
29	Poster Session 1	Gaming the system: change in nesting strategy following failure in Florida Scrub-Jays (<i>Aphelocoma coerulescens</i>) K Marthens, B Cammarano, S Barve – PA: Katherine Marthens
31	Poster Session 1	Breeding habitat selection of Eastern Population Sandhill Cranes K Lee, K McLean, C Sharp, C Lepage, B Fedy – PA: Kelly McLean
33	Poster Session 1	Causes and consequences of nest architecture variation in House Wrens (<i>Troglodytes aedon aedon</i>) C Carr, Z Swanson, D Reichard – PA: Chandler Carr
35	Poster Session 1	Quantifying fertility and embryonic mortality in an aerial insectivore, the tree swallow (<i>Tachycineta bicolor</i>) H Tench, RD Dawson – PA: Hannah Tench
37	Poster Session 1	Social contexts of extra-pair paternity in Florida Scrub-Jays T Bakley, K Roberts, N Chen, J Fitzpatrick, R Bowman – PA: Tori Bakley
39	Poster Session 1	Red-winged blackbirds nesting nearer to yellow warbler and conspecific nests experience less brood parasitism S Lawson, J Enos, S Gill, M Hauber – PA: Shelby Lawson
41	Poster Session 1	Climate Effects on Female Reproductive Success of the Prothonotary Warbler E Cummings, L Bulluck – PA: Emma Cummings
43	Poster Session 1	Diet change in thick-billed murres (<i>Uria lomvia</i>) from the high Canadian Arctic M Maddox, J Provencher, M Mallory – PA: Mark Maddox
45	Poster Session 1	Keystone Effects of Black-tailed Prairie Dogs on Breeding Grassland Songbirds A Dreelin, A Boyce, H Jones – PA: Andrew Dreelin
47	Poster Session 1	*Effects of forest reclamation and landscape features on avian occupancy, species richness, and abundance in Appalachia R Davenport, C Barton, J Cox, T Fearer, J Larkin, L Sherman, S Price – PA: Rebecca Davenport
49	Poster Session 1	*Social Transmission of Predator Information Through Referential Alarm Calls Within and Across Species C Trebac – PA: Carly Trebac
51	Poster Session 1	Assessing the Effect of American Kestrels on Small Mammal, Avian, and Insect Crop-pests of the Lower Mississippi Alluvia T Sharow, T Boves, V Rolland, T McKay – PA: Ty Sharow
53	Poster Session 1	Birds vs. cows: Impacts of regenerative grazing practices on grassland bird reproduction and habitat quality J Shamel, H Grushon, S Gilkey, N Peck, J Coon, W Tori – PA: Jennifer Shamel
55	Poster Session 1	Exposure, repellency, and learned aversion to neonicotinoid-treated seeds in granivorous birds S Ren – PA: Shuqi Ren

Number	Session	Poster title, authors , and presenting author
57	Poster Session 1	Population status and habitat suitability mapping for Hooded Vultures (<i>Necrosyrtes monachus</i>) in The Gambia using SDM M Agunbiade, M Jallow, F Camara, K Birkhofer, D Ogada – PA: Michael Agunbiade
59	Poster Session 1	Defining Critical Habitat: a case study of Least Flycatchers at Beaverhill Bird Observatory, Alberta M Van Brempt, G Holroyd, G Hvenegaard, J Von Aragon – PA: Geoff Holroyd
61	Poster Session 1	Factors influencing spatial and temporal patterns of Loggerhead Shrike occupancy at a grassland-sagebrush ecotone H Todaro, S Loss, C Duchardt – PA: Holly Todaro
63	Poster Session 1	Breeding tidal marsh bird distributions under predicted sea level rise scenarios across the Mississippi Gulf Coast R Anderson, R Iglay, K Evans, M Woodrey – PA: Rachel Anderson
65	Poster Session 1	Research for conservation of nesting grasshopper sparrows on farms in Ontario Z Lebrun-Southcott, A Campomizzi – PA: Zoé Lebrun-Southcott
67	Poster Session 1	Solutions for a sustainable coexistence between people and aquatic birds in La Segua wetland, Ecuador E Montenegro, E Fornasini, T Santander – PA: Eliana Montenegro
69	Poster Session 1	Does timing of prescribed fire influence use of tallgrass prairie by migrating birds? L Bobay, S Loss, S Fuhlendorf, T Hovick – PA: Lucas Bobay
71	Poster Session 1	Can nesting in boxes help endangered Northern Atlantic roseate terns (<i>Sterna dougallii</i>) adjust to sea level rise? J Espinosa – PA: Jessica Espinosa
73	Poster Session 1	Response of Neotropical migrants and resident birds to local habitat and landscape attributes in shade coffee farms C Gonzalez Prieto, P Arcese, A Rodewald, S Wilson – PA: Catalina Gonzalez Prieto
75	Poster Session 1	Preliminary Winter Bird Community Data for Tracking Pine Savanna Restoration in the Mississippi Gulf Coast S Campuzano, M Woodrey, R Iglay, J Pitchford – PA: Sofia Campuzano
77	Poster Session 1	Salmon Saving Shorebirds: Integrating shorebird and salmon conservation into coastal restoration in Oregon S Loredo, D Williams, V Loverti, S Bonfield – PA: Stephanie Loredo
79	Poster Session 1	Assessing waterbird conservation of alternative rice residue management in the Lower Mississippi Alluvial Valley W Guy, T Boves – PA: William Guy
81	Poster Session 1	The relationship of the endangered Yellow Cardinal and bird diversity with a forest treatment at central Argentina M Rebollo, M Reyes, M Santillán, F López, M Galmes, P Díaz-Peñalba, P Orozco-Valor, I Luque-Romero, L Bragagnolo – PA: María Rebollo
82	Poster Session 1	Diversity of shorebirds (order: Charadriiformes) thriving in an altered wetland of the Southern coast of Sri Lanka V Mendis, D Mahaulpatha, D Jayasekara, S Sigera, C Gunathilake – PA: Dharshani Mahaulpatha

Number	Session	Poster title, authors , and presenting author
83	Poster Session 1	*Examining impacts of climate change and habitat loss on the distribution and abundance of Long-billed Curlews K Freitag, A McKellar, D Bradley, S Flemming, R Torrenta, M Shaikh, T Luszcz, M Reudink – PA: Kelsey Freitag
87	Poster Session 1	Birds, fire and the sixth extinction C Frost – PA: Cecil Frost
89	Poster Session 1	*Occupancy of spruce budworm-linked warblers following biological insecticide application M MacIvor, R Johns, F Maika, J Nocera – PA: Maria MacIvor
91	Poster Session 1	Haemosporidian infections in Indiana populations of Cerulean Warbler (<i>Setophaga cerulea</i>): 2002 vs. 2022 J Grudens, K Islam – PA: Julian Grudens
95	Poster Session 1	Are Purple Finches (<i>Haemorhous purpureus</i>) the Next Host for a Mycoplasmal Conjunctivitis Epidemic? M Reinoso-Perez, K Dhondt, A Levitskiy, G Dupont, E Tulman, S Geary, A Dhondt – PA: Maria Teresa Reinoso-Perez
97	Poster Session 1	Linking foraging habitat quality to American Oystercatcher breeding productivity on two Virginia barrier islands L Brown, E Nol – PA: Lyn Brown
99	Poster Session 1	High-elevation bird response to shrub dominance on Yukon mountains A Jacobsen, E Bayne, C Mahon – PA: Anna Jacobsen
101	Poster Session 1	Swainson's thrush autumnal migration in the Guanahacabibes Peninsula, Cuba. A Perez, A Llanes Sosa, J de la Cruz, H Gonzalez – PA: Keith Hobson
103	Poster Session 1	Improving pileated woodpecker modeling: optimizing acoustic data and evaluating habitat use metrics A Zeller, E Bayne, C Mahon – PA: Austin Zeller
105	Poster Session 1	Drivers of breeding Eastern Whip-poor-will (<i>Antrostomus vociferus</i>) prey selection and availability in the Midwestern US G Witynski, M Ward, T Benson – PA: Grant Witynski
107	Poster Session 1	Modeling patch dynamics of Bicknell's Thrush breeding habitat mosaics in harvested and non-harvested forests J Longo, A Roth, P Thomas – PA: James Longo
109	Poster Session 1	Context-specific 'silver-spoon' effects of wetlands, climate, and temperature on the fitness of tree swallows L Berzins, R Dawson, R Clark – PA: Lisha Berzins
111	Poster Session 1	Using biogeochemical tracers to refine Arctic seabird trophic responses to environmental change C Michelson, M McKinney, J Provencher, M Mallory, K Elliott – PA: Chantel Michelson
113	Poster Session 1	Comparing the genetics of spatial cognition in two species of food caching chickadee S Padula, V Heinen, B Sonnenberg, C Branch, J Welklin, E Bridge, V Pravosudov, A Patel, G Semenov, S Taylor – PA: Sara Padula
115	Poster Session 1	An elevational phylogeographic diversity gradient in Neotropical birds is decoupled from speciation rates K Wacker, B Winger – PA: Kristen Wacker

Number	Session	Poster title, authors , and presenting author
117	Poster Session 1	Exploring the geographic consistency of the genetic basis of spatial cognition in mountain chickadees (<i>Poecile gambeli</i>) A Patel, S Padula, G Semenov, V Heinen, B Sonnenberg, C Branch, E Bridge, J Welklin, V Pravosudov, S Taylor – PA: Ajay Patel
119	Poster Session 1	Global patterns of plumage colour evolution in island-living Passeriform birds M Reudink, S Mahoney, C Pageau, M Oud, J Briskie – PA: Matthew Reudink
121	Poster Session 1	Severe winter weather selected for longer extremities and duller plumage in Eastern Bluebirds V Rolland, S Balenger, J Grindstaff, L Siefferman – PA: Jennifer Grindstaff
123	Poster Session 1	Evolution of carotenoid-based plumage in Australasian Robins (Family: Petroicidae) S Khalil, M Rao, R Koch, M Toomey, J Walsh, I Lovette – PA: Sarah Khalil
125	Poster Session 1	A new Paleogene fossil and a new dataset for waterfowl (Aves: Anseriformes) clarify evolution at the K-Pg Boundary. G Musser, J Clarke – PA: Grace Musser
127	Poster Session 1	SNPfiltR: An R package for interactive and reproducible SNP filtering D DeRaad – PA: Devon DeRaad
129	Poster Session 1	*Variation of iris colour in Spotted Towhees (<i>Pipilo maculatus</i>) breeding in Metro Vancouver T Hohn, G Karimpanal, E Gow – PA: Triana Hohn
131	Poster Session 1	When every bird counts - Maximizing survey efforts for the elusive Black Swift A Seaman – PA: Amy Seaman
135	Poster Session 1	Using avian energetics and migration modeling to predict fates of sublethally oiled birds B West, M Wildhaber, K Aagaard, W Thogmartin, A Moore, B Golas, M Hooper – PA: Benjamin West
137	Poster Session 1	Assigning harvested waterfowl to geographic origin using feather $\delta^2\text{H}$ isoscapes: What is the best analytical approach? J Kusack, D Tozer, K Harvey, M Schummer, K Hobson – PA: Jackson Kusack
139	Poster Session 1	*Evaluation and application of a deep neural network, BirdNET, for bird sound detection Y Tseng, D Hodder, K Otter – PA: Yi-Chin Tseng
143	Poster Session 1	*Window Collision Species Composition on a Large Midwestern College Campus C Dobson, E Alexander, S Tomczyk, H Pollock, M Ward – PA: Colin Dobson
145	Poster Session 1	Assessing the impact of wind on avian spring migration: a multi-sensor approach A Strand, E Bridge, J Kelly, P Stepanian, D Bodine, J Soto – PA: Alva Strand
147	Poster Session 1	*Using a large citizen science dataset to understand patterns and drivers of altitudinal migration in the Himalayas T Menon, U Srinivasan – PA: Tarun Menon
153	Poster Session 1	The effects of light pollution on migratory animal behavior C Burt, J Kelly, G Trankina, C Silva, A Khalighifar, H Jenkins-Smith, A Fox, M Leon-Corwin, C Black, K Fristrup, K Horton – PA: Carolyn Burt
159	Poster Session 1	An analysis of variation in Magnolia Warbler (<i>Setophaga magnolia</i>) flight calls E Ress, B Van Doren, A Farnsworth – PA: Elliott Ress
161	Poster Session 1	Lack of evidence for discrete migration strategies in American woodcock suggests potential for species' resilience S Clements, L Berigan, R Darling, A Fish, S McWilliams, C Slezak, A Roth, E Blomberg – PA: Sarah Clements

Number	Session	Poster title, authors , and presenting author
163	Poster Session 1	Satellite-tracking technology reveals American Robins fly by night K Fraser, S Bani Assadi, C Turcotte-van de Rydt, K Smith – PA: Kevin Fraser
165	Poster Session 1	Ghrelin levels reflect combined effects of endurance flight and energy balance in migratory warblers. S Lupi, D Mann, H Kaiya, C Guglielmo, L Fusani, S MacDougall-Shackleton – PA: Scott MacDougall-Shackleton
167	Poster Session 1	Grassland bird stopover habitat preferences: site size, vegetation, and surrounding landscape N Suckow, M Ward – PA: Nicole Suckow
169	Poster Session 1	A range-wide migratory network for Blackpoll Warblers (<i>Setophaga striata</i>) J Duali, R Norris, B DeLuca, S Mackenzie, S Haché, B Drolet, R Boardman, A Roberto-Charron – PA: Jelany Duali
171	Poster Session 1	Assessing high migratory connectivity for the imperilled Newfoundland Gray-cheeked Thrush to a restricted winter range I Warkentin, D Whitaker – PA: Ian Warkentin
173	Poster Session 1	The spatiotemporal effects of seasonal migration on avian community assembly M Hack, B Winger – PA: Matthew Hack
175	Poster Session 1	True colors: Investigating coloration on hummingbirds underwings through the eyes of hummingbirds N Lee, K Epperly, Y Erritouni, R Elting, V Chhaya, D Beltrán, A Rico-Guevara – PA: Nora Lee
177	Poster Session 1	Wintering Common Loons (<i>Gavia immer</i>) exhibit shorter foraging times and dive durations when in larger groups. J Mager, J Paruk, S Abts, B Wade – PA: Jay Mager
179	Poster Session 1	Oxidative costs and constraints of territory quality on reproductive effort in male black-throated blue warblers B Thomson, S Kaiser – PA: Braeden Thomson
181	Poster Session 1	Physiological conditions of barn owl nestlings as indicators of habitat quality in the Napa Valley wine-growing region C Cortez, M Johnson – PA: Christian Cortez
183	Poster Session 1	Heat shock proteins as a physiological stress metric of migrating songbirds G Orfanides, S Pagano – PA: Gabriella Orfanides
185	Poster Session 1	Increasing diversity and inclusion in ornithological societies L Grieves, L Howes, E Gow, R Chicalo, C Estevo, A McKellar, J Ng, J Reynolds, H Tench, A Westwood, z nanji, M Triana, N Koper – PA: Maria Triana
187	Poster Session 1	New perspectives on the population and persistence of Gray-headed Chickadee in Canada L McLeod, C Mahon, D Illes, T Booms – PA: Logan McLeod
189	Poster Session 1	*Assessing heavy metal bioaccumulations in migratory birds of prey T Schubarg, Q Aldrich, M Barata, N Baer – PA: Timothy Schubarg
191	Poster Session 1	*The long-term impacts of landscape configuration on an old-growth forest specialist in Alberta, over 25 years T Hart, E Bayne, L Leston – PA: Taylor Hart

Number	Session	Poster title, authors , and presenting author
193	Poster Session 1	*Become the hummingbird: Using games to engage with underrepresented groups in science A Sargent, J Pen, R Canaday, A Rockwood, A Clark, C Stockham, A Rico-Guevara – PA: Alyssa Sargent
197	Poster Session 1	Community-based monitoring: learning from birds and local communities in Río Claro, Colombia N Niño – PA: Nelsy Niño
199	Poster Session 1	Behavioural consequences of conspecific density: a systematic literature review of the effects of neighbours on birdsong N Sánchez, D Mennill – PA: Natalie Sánchez
201	Poster Session 1	Male and female song comparison: Are males really more complex? M Costas-Sabatier, A Rios-Franceschi – PA: Miguel Costas-Sabatier
203	Poster Session 1	*Assessing the novel use of a combinatorial referential alarm call to denote a brood parasite K Ray, K Maurer, M Hauber, S Gill – PA: Katelyn Ray
205	Poster Session 1	Bird Banding Station at the National Botanical Garden of Havana, Cuba: preliminary results and perspectives D Ventura, L Arañaburo Acosta, S González Rosales, J de Jongh González, M Curbelo Cruz, L Mugica Valdés, M Acosta, K Hobson – PA: Ana Maria Diaz
206	Poster Session 1	An analysis of hummingbird visitation to native, exotic, and artificial nectar sources across a landscaped terrain J Fisher, L Rodriguez, C Doan, D Groom – PA: Jillian Fisher
208	Poster Session 1	*La Vie en Noise: Bird biodiversity and vocal behaviour in the urban noise of Paris S Gamboa, D Mennill – PA: Stephanie Gamboa
210	Poster Session 1	*The Impact of Lights Out Campaigns on Artificial Light at Night and Migratory Bird Fatalities G Trankina, K Horton, C Burt, A Khalighifar, C Silva, H Jenkins-Smith, A Fox, M Leon-Corwin, J Kelly – PA: Grace Trankina
211	Poster Session 1	*Impacts of Backyard Habitat Creation for Birds at Single-Yard and City-Wide Scales A Krishnan, A Ritz, J Michaels – PA: Ananke Krishnan
213	Poster Session 1	Year-round bird-window collision monitoring at Simon Fraser University's Burnaby campus in British Columbia, Canada V Hum, D Green, E Gow – PA: Vanessa Hum
214	Poster Session 1	*Life in chaos: Nesting habitat preference of birds in urban-rural gradients in Kathmandu Valley D Bhusal, P Ghimire – PA: Dinesh Bhusal
216	Poster Session 1	Anthropogenic debris as nesting material by tree nesting ardeidae birds in an urban heronry on the Southwest coast S John – PA: Sarlin John
2	Poster Session 2	Macro-demographic indices of recruitment and survival from ebird data B Galtbalt, J Socolar, O Robinson, F La Sorte, K Rosenberg, A Johnston, A Dokter – PA: Batbayar Galtbalt
4	Poster Session 2	Identifying trends in the spring phenology of the Prothonotary Warbler (<i>Protonotaria citrea</i>) R Ralston, C Tonra – PA: Rebecca Ralston

Number	Session	Poster title, authors , and presenting author
6	Poster Session 2	An experimental study of interspecific competition between Eastern Whip-poor-wills and Chuck-will's-widows B Dunnahoo, T Boves – PA: Brandon Dunnahoo
8	Poster Session 2	Investigating the Activity Pattern of Hudsonian Godwit Chicks Using an Automated Radio Telemetry Network F Huang, L Puleo, N Senner – PA: Feipeng Huang
10	Poster Session 2	*Is bigger better? Testing the assumptions of the group augmentation hypothesis in terms of group size and territory size K Rajput – PA: Kanika Rajput
12	Poster Session 2	*Home range and resource use of a synanthropic predator in the Canadian mixed-grass prairies V Hartley-Cox, C Somers, R Fisher – PA: Victoria Hartley-Cox
14	Poster Session 2	*Relationships between environmental stressors and Cliff Swallow (<i>Petrochelidon pyrrhonota</i>) feather coloration and colony S Brandt, M Ambardar – PA: Sonja Brandt
16	Poster Session 2	Which biotic and abiotic factors influence dominance and vagrancy in hummingbird communities? E Mathiasen, L Tell, S English, D Groom – PA: Elizabeth Mathiasen
18	Poster Session 2	Did wattles and other bare parts evolve exclusively via sexual selection in Galliformes? M Zhao, S Kurtis, E Humbel, E Griffith, T Liu, E Braun, R Buchholz, R Kimball – PA: Rebecca Kimball
20	Poster Session 2	Relationship among testosterone, antioxidant capacity and reproduction in male red-winged blackbird, a polygamous species E Morales-Vega, M Maniago, G López-Martínez, P Klug, T Greives – PA: Esther Morales-Vega
22	Poster Session 2	Reproductive biology of the birds of southern Ecuador, how much information is missing? I Alarcón, P Molina Abril, M Ríos, A Orihuela Torres, A Carrasco, D Pacheco, E Juca, R Arias, C Espinosa, L Ordóñez Delgado – PA: Ibeth Alarcón
24	Poster Session 2	Breeding season distribution of Cerulean Warblers (<i>Setophaga cerulea</i>) in Northwest Arkansas J Mortensen – PA: Jennifer Mortensen
26	Poster Session 2	Drivers of reproductive success in Florida Scrub Jay (<i>Aphelocoma coerulescens</i>) breeding pairs without helpers O Smith, S Barve – PA: Olivia Smith
28	Poster Session 2	A study of gender dynamics in territory acquisition strategy of the Florida Scrub-jay S Beres, S Barve – PA: Sarah Beres
30	Poster Session 2	Effects of diet shifts towards fruit on the condition of autumn migrant Catharus thrushes W Carter, S Pagano, C Seewagen – PA: Chad Seewagen
32	Poster Session 2	*Are domestic cattle exposing naïve bird species to nest parasitism by brown-headed cowbirds? S Meyhoff, E Bayne – PA: Sejer Meyhoff
34	Poster Session 2	Dynamic in situ nest warming induces developmental plasticity in six North American passerines I Smith, B Weeks – PA: Isaac Smith

Number	Session	Poster title, authors , and presenting author
36	Poster Session 2	Historical demography of northern seabirds: assessing responses to past climate changes C Boccia, V Friesen – PA: Vicki Friesen
38	Poster Session 2	Do Rangeland Management Practices Incentivized by California's Healthy Soils Program Confer Co-Benefits for Birds? X Moura, M Johnson, M Ybarra – PA: Ximena Moura
40	Poster Session 2	Colonization, competition, and niche breadth: a case study of rapid adaptation in an insular population of Song Sparrows M Duchesne, P Arcese – PA: Megan Duchesne
44	Poster Session 2	Interactions between cavity-nesting species: are Carolina Wrens and Prothonotary Warblers competitors or mutualists? S Green, K Miller, R Pell, K O'Neil, E Bowers – PA: Shelby Green
46	Poster Session 2	*The prey-predator network between migratory shorebirds and invertebrate community in a stopover tidal flat in Japan M Tatani, J Hosoya, Y Takeda, O Kagawa, S Chiba – PA: Masanori Tatani
48	Poster Session 2	Decision-making in obligate army ant following birds: patterns in foraging patch choice vary across coexisting species E Burns, S Willson – PA: Emily Burns
50	Poster Session 2	Influence of habitat characteristics and predators on declining grassland birds A Amiri, M Eichholz, G Bastille-Rousseau – PA: Anahit Amiri
52	Poster Session 2	*A bird's eye view of tree retention in timber harvests I Lebeuf-Taylor – PA: Isabelle Lebeuf-Taylor
62	Poster Session 2	*Comparing the effects of forest structure and management strategy on the Olive-sided Flycatcher in the Sierra Nevada B Hack, S Kahl, C Wood – PA: Benjamin Hack
64	Poster Session 2	Museomics: Building a molecular library for Peruvian amazonian birds A Arana, C Arana, M Erkenswick Watsa, M Tobler, J Ramirez, V Pacheco, M Arakaki, M Martin, J Mena, L Salinas – PA: Alejandra Arana
66	Poster Session 2	Gap analysis of common molecular markers in public DNA reference libraries for Peruvian Amazonian Birds A Arana, C Arana, M Erkenswick Watsa, M Tobler, J Ramirez, V Pacheco, M Arakaki, J Esteves, J Mena, L Salinas – PA: Alejandra Arana
68	Poster Session 2	The Impact Prescribed Burns have on Snake Predation on Grassland Bird Nests in Southern Illinois C Mackenzie, M Eichholz – PA: Cullen Mackenzie
70	Poster Session 2	Introduction to Motus Network in Venezuela: a call to new partners in Canada to support migratory bird studies M Matta – PA: Miguel Matta Pereira
72	Poster Session 2	*Can public lands safeguard grassland bird populations in the eastern US? M Massa, A Johnson, E Matthews, G Shriver, E Cohen – PA: Megan Massa
74	Poster Session 2	The impact of energy extraction noise on two grassland songbirds in the Mixed Grasslands of Alberta M Triana, N Koper – PA: Maria Triana
76	Poster Session 2	Roads and railroads: Impacts on behavior and reproductive success in Florida Scrub-Jays (<i>Aphelocoma coerulescens</i>) F Riand, S Barve – PA: Fanny Riand

Number	Session	Poster title, authors , and presenting author
78	Poster Session 2	Minimally-invasive techniques to study the ecology and behavior of North America's rarest marsh bird, the Black Rail S McRae, B Kephart, A Neice – PA: Susan McRae
80	Poster Session 2	Inferring habitat preferences for an Endangered grassland bird using within breeding season movements A Tringali, E Abraham, G Thompson, R Bowman – PA: Angela Tringali
84	Poster Session 2	Health status of the overwintering endangered species <i>Calamospiza melanocorys</i> (Lark bunting) in the Mexican high plateau C Rodriguez Licea, L Chapa-Vargas – PA: Citlali Rodriguez Licea
86	Poster Session 2	Effects of captivity on the cloacal microbiome of Dark-eyed Juncos (<i>Junco hyemalis</i>) T Van Laar, J Slade, D Whittaker, K Theis, J Greenberg – PA: Tricia Van Laar
88	Poster Session 2	Bald eagle (<i>Haliaeetus leucocephalus</i>) reproductive success and avian influenza in Ohio, USA L Kearns – PA: Laura Kearns
90	Poster Session 2	*The Demographic, Environmental, and Genetic Forces Driving Blood Parasite Infections in the Florida Scrub-Jay K Hardy, S Bol, F Beaudry, R Bowman, J Fitzpatrick, A Tringali, N Chen – PA: Kristin Hardy
92	Poster Session 2	Nest site reuse and fidelity in two cavity-nesters in Argentina: The American Kestrel and the Blue-crowned Parakeet F López, I Berkunsky, M Rebollo, P Orozco-Valor, J Grande – PA: Fernando López
94	Poster Session 2	American woodcock landscape use in New York State K Filkins, J Straub, K Malone, J Stiller – PA: Kayleigh Filkins
96	Poster Session 2	Occupancy of the migratory bird Wood Thrush (<i>Hylocichla mustelina</i>), in the North Caribbean of Area de Conservación Guaná I Vargas-Valverde, G Avalos, N Sánchez – PA: Natalie Sánchez
98	Poster Session 2	Multiple aerodynamic functions of avian wing through variations in wingtip slots morphology Y Jiang, Y Murayama, H Liu, M Murakami – PA: Yajun Jiang
100	Poster Session 2	*Changing landscapes: Analysis of overwinter habitat use and movement ecology of Dark-eyed Juncos (<i>Junco hyemalis</i>) J Morgan, G Lindsey, K Williams – PA: Jacob Morgan
102	Poster Session 2	*Going cold turkey: Does microclimate influence winter roost trees used by Wild Turkeys (<i>Meleagris gallopavo</i>)? K Martin, G Burness, J Bowman – PA: Kayla Martin
104	Poster Session 2	Application of a monitoring protocol for Thrashers in the Sonoran Desert F Puente, E Ammon, M Cruz, J Gonzalez – PA: Francisco Puente
106	Poster Session 2	*Survival and movement patterns of juvenile Savannah sparrows during the post-fledging period S Mueller, R Norris – PA: Sarah Mueller
108	Poster Session 2	Migratory pathways and stopover habitat use of Swainson's Thrush in Southeastern Ohio G Lindsey, S Romer, H Sutton, S Countryman, K Williams – PA: Gabriella Lindsey

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110	Poster Session 2	Dynamic measure of glucocorticoid hormones using feathers and plasma in the polymorphic White-throated Sparrow R Peck – PA: Ray Peck
112	Poster Session 2	*Does the evolution of song and colour drive complexity in Tanagers? L Munoz, S Mahoney, M Reudink – PA: Lorena Munoz
116	Poster Session 2	Propulsive contribution of the craniofacial hinge in climbing parrots E Dickinson, A Schurr, M Young, A Wilken, M Granatosky – PA: Edwin Dickinson
118	Poster Session 2	Population structure and phylogeography of the Atlantic Forest endemic <i>Dendrocincus turdina</i> A Fazza, E Peres, M Hickerson, C Miyaki – PA: Cristina Miyaki
120	Poster Session 2	*Does 'pace of life' have a genomic basis in kittiwakes? A candidate gene approach A Green, C Boccia, V Friesen – PA: Alyssa Green
122	Poster Session 2	*The role of genomic architecture in determining species diversity in three monotypic passerines J Beam, D Toews – PA: Johanna Beam
124	Poster Session 2	Building a reference genome for the endangered Roseate Tern using non-invasive sampling methods C Barreto, N Van Gilder, M Rubega – PA: Cindy Barreto
126	Poster Session 2	Comparative genomic analyses reveal variation in avian microchromosomes F Romero, B Hovmand Warner, F Beaudry, T Nguyen, E Cosgrove, A Clark, R Bowman, J Fitzpatrick, N Chen – PA: Faye Romero
128	Poster Session 2	*Phylogenomics of the genus <i>Rhegmatorhina</i> R Zucker, B Whitney, R Brumfield, C Ribas, G Del-Rio – PA: Ryan Zucker
130	Poster Session 2	Population transcriptomics studies in geographically distant species of North American songbirds I Ricchetti, S Lamichhaney – PA: Isabella Ricchetti
132	Poster Session 2	Understanding cholera immunity in common eiders (<i>Somateria mollissima</i>) in the Canadian Arctic using whole genome analysis S Kroeze, O Love, M Forbes, G Gilchrist, V Friesen – PA: Shayla Kroeze
134	Poster Session 2	*Post-fledging habitat use, movement, and survival of Black-throated Blue Warblers in high- and low-risk habitat J Hutchison, T Jones, E Woernley, S Kaiser – PA: Jackson Hutchison
136	Poster Session 2	Consistent apparent adult survival and nest-site fidelity of Whimbrel <i>Numenius phaeopus</i> near Churchill, Manitoba, Canada A Ausems, J Perz, A Johnson, N Senner, M Skeel, E Nol – PA: Anne Ausems
138	Poster Session 2	Small scale movements using node technology in a topographically complex landscape M Blake, M Fylling, A Noson – PA: Maggie Blake
140	Poster Session 2	Tracking the diel timing of spring migration in a fly-and-forage migrant C Olson-Brissaud, J Ray, K Fraser – PA: Clémence Olson-Brissaud
142	Poster Session 2	American woodcock select for areas of increased night light during spring stopovers R Darling, S Clements, L Berigan, A Fish, C Slezak, S McWilliams, A Roth, E Blomberg – PA: Rachel Darling
144	Poster Session 2	Sanderling foraging ecology in relation to brine shrimp production at a managed saline lake in Saskatchewan W De Silva, A McKellar, C Morrissey – PA: Wathmini De Silva

Number	Session	Poster title, authors , and presenting author
146	Poster Session 2	Determining the origin habitat of Black-backed and the American Three-toed Woodpeckers by chemical oleoresin analysis F Grandmont, J Tremblay, J Ibarzabal, S Lavoie – PA: François-Xavier Grandmont
148	Poster Session 2	Age comparison of migratory movements of Blackpoll Warblers (<i>Setophaga striata</i>) during autumn. M Deutschlander, A Patterson, M Gianvecchio, M Sutton – PA: Mark Deutschlander
150	Poster Session 2	Determining the Origin of Birds Killed by Window Collision Using Hydrogen Stable Isotopes L Hurtado – PA: Liz Hurtado
152	Poster Session 2	Traveling with Eastern Towhees M Eshleman, L Kiziuk, A Coolman, A Fetterman, J Buler – PA: Michelle Eshleman
155	Poster Session 2	Connecting songbird migrants in Guanahacabibes, Cuba, to North American origins using stable isotopes K Hobson, J Kusack, A Llanes Sosa, A Perez – PA: Keith Hobson
156	Poster Session 2	Migratory movements of long-distance shorebirds that use Peru as non-breeding site M Antezana Aponte, E Tavera Fernández – PA: Mariamercedes Antezana Aponte
157	Poster Session 2	Banding birds at the Guanahacabibes Peninsula, Cuba, 2015-2022 A Llanes Sosa, A Perez, J de la Cruz, H Gonzalez – PA: Jackson Kusack
158	Poster Session 2	PIF Western Working Group Motus initiative: Expansion of Motus wildlife tracking network in western North America P Lorch, M Whitfield, J Garcia Walther, M Webb, W Blake, A MacDonald – PA: Patrick Lorch
160	Poster Session 2	Prevalence of year-round breeding plumage in Australian Fairywrens on a continental scale J Welklin, A Johnson – PA: Joseph Welklin
162	Poster Session 2	*Evaluating the influence of overwintering conditions on prealternate moult phenology in Neotropical migratory warblers S Turner, B Dossman, M Shaikh, C Tonra, M Reudink – PA: Shae Turner
164	Poster Session 2	Winter foraging behavior of neotropical migrants and residents may reveal niche differentiation A Eppedio, E Heiser, M Gilbert, A Dhondt, K Navarro-Vélez – PA: Andrew Eppedio
166	Poster Session 2	*Strength in unity?: Tradeoffs in the winter roosting behaviors of Eastern Bluebirds (<i>Sialia sialis</i>) S Kitchen, J Mortensen – PA: Shannon Kitchen
168	Poster Session 2	*Taxonomic revision and phylogenetics of the <i>Vireolanius leucotis</i> complex reveals complex evolutionary history H Truong, B Whitney, F Schunck, M Rego, L Silveira, R Brumfield, G Del-Rio – PA: Huy Truong
170	Poster Session 2	Genetic and vocal variation between subspecies of White-breasted Nuthatch in a northern California contact zone. E Arulanantham, C Cicero Studley, X Qiu, L Smith, D Wait, R Bowie – PA: Emma Arulanantham

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172	Poster Session 2	Ultraconserved elements resolve phylogenetic relationships of woodpeckers and allies (Picidae) B Benz, B Smith – PA: Brett Benz
174	Poster Session 2	Cosmopolitan metapopulations versus cryptic speciation: when do we elevate populations of a globally established species E Mendales, J Dumbacher, J Chaves – PA: Ezra Mendales
176	Poster Session 2	Effects of migratory strategy on flight muscle mitochondrial physiology in songbirds S Coulson, J Staples, C Guglielmo – PA: Soren Coulson
178	Poster Session 2	Functional connectivity of a Federally Threatened avian habitat specialist living in a fragmented habitat S Shah, D Seidman, T Nguyen, R Bowman, J Fitzpatrick, A Tringali, N Chen – PA: Shailee Shah
180	Poster Session 2	Mallard (<i>Anas platyrhynchos</i>) migration chronology and seasonal survival in the Atlantic Flyway D Sparks, J Straub, J Stiller, N Huck, M Weegman, J Coluccy – PA: Daria Sparks
182	Poster Session 2	Effects of annual climatic variation on the sex ratios of nestling mountain chickadees A Nowicki, B Sonnenberg, V Pravosudov, C Branch – PA: Alyssa Nowicki
184	Poster Session 2	How to engage more Indigenous students in ornithology E McKinnon – PA: Emily McKinnon
186	Poster Session 2	Does immune function trade off against refueling rate during stopover in migrating Catharus thrushes? E Rogers, A Gerson – PA: Elizabeth Rogers
188	Poster Session 2	Birdland: An exploration of connections between people and birds across the American landscape J Schuetz – PA: Justin Schuetz
190	Poster Session 2	Overcoming fear of mistakes in efforts to Indigenize STEM teaching K Lefevre – PA: Kara Lefevre
192	Poster Session 2	Calling dynamics of the Ruddy-breasted crake (<i>Porzana fusca</i>) in a fragmented landscape S Matsubayashi, F Saito, R Suzuki, K Nakadai, H Okuno – PA: Shiho Matsubayashi
194	Poster Session 2	Vitelline warbler ecology and singing behavior W Cummings, M Thomas, K Singer, V Moss, D Goodman, C Layne – PA: Wyatt Cummings
196	Poster Session 2	*Vocal behavior during territory establishment of newly arrived and established male Ovenbirds (<i>Seiurus aurocapilla</i>) A Gouge, J Foote – PA: Adam Gouge
198	Poster Session 2	*Are their barks bigger than their bites? Testing for correlation between song and bill morphology in the Song Sparrow Z Casteel – PA: Zena Casteel
200	Poster Session 2	Song stereotypy in Grasshopper Sparrows (<i>Ammodramus savannarum</i>) increases with age B Lohr, M Brown, M Moyer, R Hill – PA: Bernard Lohr
202	Poster Session 2	Automated call box system to conduct playback experiments for songbird research and management. V Cupiche Herrera, B McLaren – PA: Vianney Cupiche Herrera

Number	Session	Poster title, authors , and presenting author
204	Poster Session 2	*Character displacement of mountain chickadee song where they co-occur with black-capped chickadees O Taylor, K Grabenstein, A Theodosopoulos, H Leeson, S Taylor, C Branch – PA: Olivia Taylor
207	Poster Session 2	Examining micro-geographic variation in 'Apapane (<i>Himatione sanguinea</i>) vocalization and motif usage A Lopardo, M Edwards, B Thomson, P Hart, P Ditzel, B Gottesman – PA: Braeden Thomson
209	Poster Session 2	Bird-window collisions in downtown Houston: methods, trends, and lessons learned S Brown, K Biles, G Durham – PA: Schyler Brown
212	Poster Session 2	*Changes in bird diversity in response to a community-led ecological restoration program in Detroit. C Dennison, R Buxton, A Pearson – PA: Christopher Dennison
215	Poster Session 2	How does sensory pollution and urban vegetation affect avian diversity and nesting success? A Llamas, T Jones, J Phillips – PA: Alfredo Llamas

'PA' indicates Presenting author

*eligible for student presentation award



About Environment and Climate Change Canada

At Environment and Climate Change Canada (ECCC), our business is protecting the environment, conserving the country's natural heritage, and providing weather and meteorological information to keep Canadians informed and safe.

Environment and Climate Change Canada is building on its accomplishments with the environment through credible science, effective regulations and legislation, successful partnerships, and high-quality service delivery to Canadians.

We support sound environmental decisions. We work to repair the damage of the past, to collect and pass on knowledge, and to develop, implement and enforce policies to prevent future issues. We also work to ensure that Canadians have a safe, clean and sustainable environment today, tomorrow and well into the future.

Environment and Climate Change Canada is a diverse organization where our programs, services, and people lead the way in implementing the Government of Canada's environmental agenda. We collaborate with our partners at home and abroad, to realize concrete progress on initiatives that will protect the health of our people and our planet.

À propos d'Environnement et Changement climatique Canada

À Environnement et Changement climatique Canada (ECCC), notre objectif est de protéger l'environnement, de conserver le patrimoine naturel du pays et de fournir des renseignements et des prévisions météorologiques pour tenir les Canadiens informés et en sécurité.

Environnement et Changement climatique Canada prend appui sur ses réalisations en matière d'environnement par l'entremise d'une science crédible, des règlements et des lois efficaces, des partenariats réussis et d'une prestation de services de haute qualité aux Canadiens.

Nous soutenons la prise de décisions judicieuses en matière d'environnement. Nous nous appliquons à réparer les dommages du passé, nous recueillons et diffusons des connaissances et nous élaborons, mettons en œuvre et appliquons des politiques destinées à prévenir des dommages futurs. Nous avons pour mission de s'assurer que les Canadiens profitent d'un environnement sain, propre et durable aujourd'hui, demain et loin dans l'avenir.

Environnement et Changement climatique Canada est une organisation diversifiée dans laquelle les programmes, les services et le personnel guident la mise en œuvre du programme environnemental du gouvernement fédéral.