



North American Ornithological Conference 2016

Bringing Science and Conservation Together

PROGRAM

HOSTED BY THE



Smithsonian Institution

AUGUST 16–20, 2016

WASHINGTON, DC

WASHINGTON HILTON HOTEL

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Program as of 8/14/2016

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Smithsonian Conservation Biology Institute

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Consejo Nacional de Investigaciones Científicas
y Técnicas (Argentina), Researcher
Field Ornithologist and Bird Sound Recordist
Neotropical Ornithological Society (President)

SPONSORING SOCIETIES

The NAOC 2016 conference is planned and organized by a Steering Committee made up of representatives from the following organizations: American Ornithologists' Union, Association of Field Ornithologists, BirdsCaribbean, CIPAMEX, Cooper Ornithological Society, Society of Canadian Ornithologists, Sociedad de Ornitología Neotropical, and Wilson Ornithological Society.



Sociedad
de Ornitología
Neotropical



Society of Canadian Ornithologists
Société des ornithologistes du Canada



AMERICAN
ORNITHOLOGISTS'
UNION

HOST ORGANIZATIONS

Along with the support of the sponsoring societies, the NAOC 2016 is being hosted by the Smithsonian Institution and the Smithsonian Migratory Bird Center.

The Smithsonian Migratory Bird Center is dedicated to understanding, conserving and championing the grand phenomenon of bird migration. Founded in 1991, staff at the center seek to clarify why migratory bird populations are declining before the situation becomes desperate. Its programs help raise awareness about migratory birds and “understand the threats they face throughout the annual cycle.” The center is part of the Smithsonian Conservation Biology Institute (SCBI).



Smithsonian
Institution

Migratory Bird Center

National Zoological Park

Conservation Biology Institute

National Museum of Natural History



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Welcome to NAOC 2016!



Dear NAOC Attendee:

Welcome to the NAOC 2016 and to Washington D.C. Put on by the Smithsonian Institution and hosted by all of the major professional ornithological societies in the Western Hemisphere, the NAOC VI promises to be the largest and one of the most important ornithology conferences ever. This is YOUR meeting to learn from and network with other professional and amateur ornithologists, students, government officials, policy-makers, researchers, and science suppliers.

We have some 2,000+ attendees for an unprecedented program of pre-conference workshops, stimulating plenary lectures, symposia, panel and roundtable discussions, lightning talks, and the presentation of contributed papers and posters — all about birds. In addition to our outstanding scientific program, we have a number of special events — including early-morning bird walks to a late night pub crawl, a 5K race at the National Zoo to a bird jam and poetry slam, a quiz bowl, a southern barbecue with New Orleans music and so much more. I hope you take advantage of your time here to participate in these activities.

Of course we're gathering at a time when climate change, land use/conversion, and a variety of other factors are all contributing to species declines across the globe. The future brings additional environmental challenges likely to magnify these impacts. What we know is that the science of ornithology and the practice of conservation are inextricably connected; a fact acknowledged and addressed by our Conference theme - Bringing Science and Conservation Together. Birds are some of the best known and monitored organisms on the planet, and therefore have an important role to play in addressing the global environmental challenges of our time. Birds matter, and the ornithological research and conservation you do is critical for tackling some of our most significant problems of our time. I urge you to be a part of this vital discussion among your colleagues and to take the opportunity here in Washington to meet with U.S. policy makers, NGOs, and representatives of other countries.

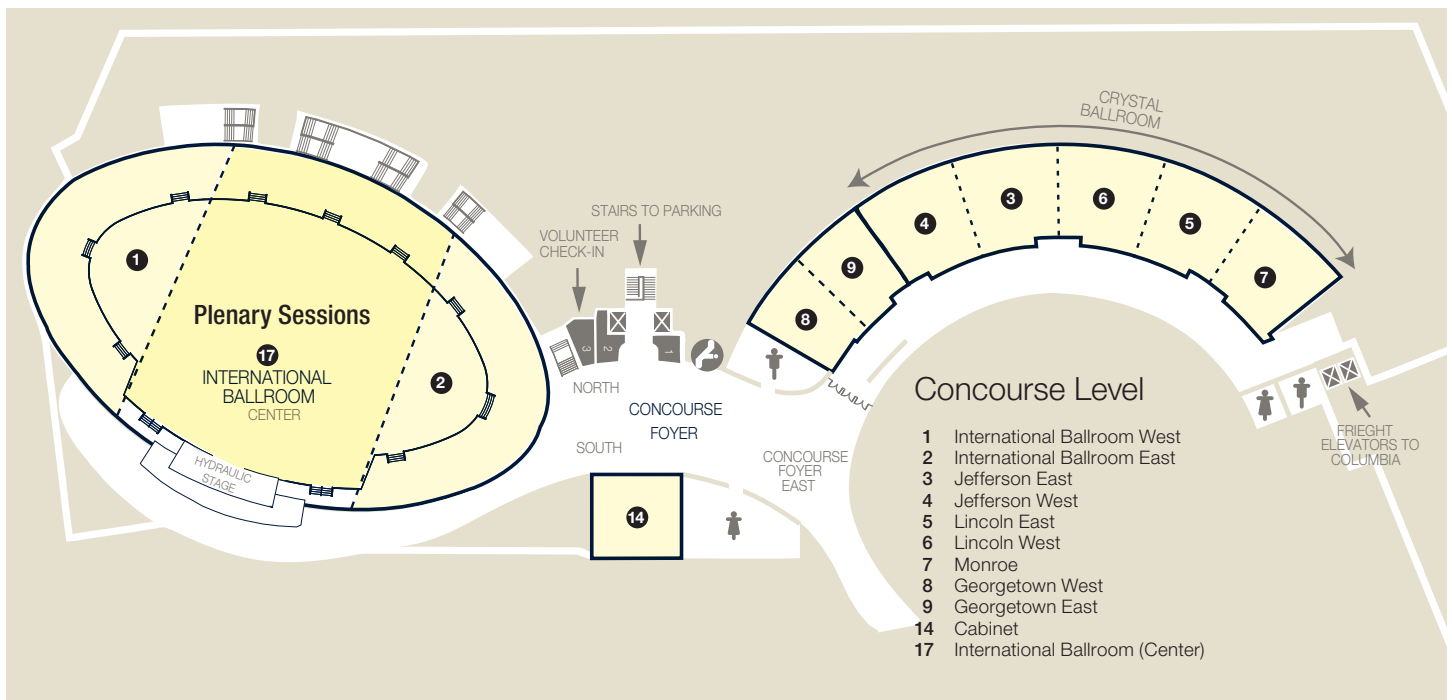
Finally, I'd be remiss if I didn't also encourage you to explore this wonderful city and all it has to offer; world-class museums, a variety of entertainment, and dining from every corner of the world.

I'm so glad you decided to join us and look forward to meeting you all at NAOC 2016.

Peter P. Marra

Peter Marra, PhD
Director, Smithsonian Migratory Bird Center
Smithsonian Conservation Biology Institute
Chair, NAOC 2016

Floor Plan



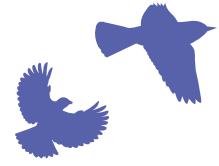
NAOC 2016 Agenda

TUESDAY August 16

12:00 pm–9:00 pm		Registration Open	<i>Terrace Foyer</i>
4:00 pm–7:00 pm	\$ R	American Ornithologists' Union (AOU) Fellows Meeting and Dinner <i>AOU Fellows Only</i>	<i>Cosmos Club (Offsite)</i>
5:00 pm–7:00 pm	✓	Happy Hour in Exhibit Hall	<i>Columbia Ballroom</i>
7:00 pm–9:30 pm	✓	Welcome Reception <i>Sponsored by Cornell Lab of Ornithology</i>	<i>International Ballroom</i>

WEDNESDAY August 17

5:45 am–7:45 am	⦿	Morning Bird Walk	<i>Meet in Terrace Foyer</i>
8:00 am–10:00 am	✓	Opening Address: David J. Skorton, MD Plenary Session: Jessica U. Meir, PhD	<i>International Ballroom</i>
10:00 am–7:00 pm	✓	Exhibit Booths	<i>Columbia Ballroom</i>
10:00 am–10:30 am	✓	Coffee Break	<i>Columbia Ballroom</i>
10:30 am–1:30 pm	⦿	Smithsonian Institution National Zoo Bird House Tours (30-minute tours to be held at 10:30am and 1pm daily)	<i>Meet in Terrace Foyer</i>
10:30 am–12:00 pm	✓	Symposia and Concurrent Sessions	<i>See Schedule</i>
12:00 pm–1:30 pm		Lunch Break	<i>On Your Own</i>
12:30 pm–1:30 pm	✓	Women Rocking Science	<i>International Ballroom</i>
12:00 pm–1:30 pm	R	Student Mentor Meet-Ups	<i>Student Lounge, International Terrace</i>
1:30 pm–3:00 pm	✓	Symposia and Concurrent Sessions	<i>See Schedule</i>
3:00 pm–3:30 pm	✓	Refreshment Break	<i>Columbia Ballroom</i>
3:30 pm–5:00 pm	✓	Symposia and Concurrent Sessions	<i>See Schedule</i>
5:00 pm–6:00 pm	R	Early Professionals Social	<i>International Ballroom</i>
5:00 pm–7:00 pm	✓	Poster and Exhibitor Reception	<i>Columbia Ballroom</i>
5:00 pm–7:00 pm	✓	Silent Auction	<i>Columbia Ballroom</i>
5:30 pm–7:00 pm	✓	Lightning Talks/Lightning Symposia	<i>See Schedule</i>
7:00 pm–9:00 pm	R	Climate Change Reception <i>Sponsored by National Audubon Society</i>	<i>International Ballroom</i>
7:00 pm	⦿	Pub Crawl	<i>Meet in Terrace Foyer</i>



THURSDAY August 18

5:45 am–7:45 am	⦿	Morning Bird Walk	Meet in Terrace Foyer
6:15 am–7:30 am	Ⓜ	All-Out Ostrich Uproar 5K Race	Buses begin departing at 5:15 am
8:00 am–10:00 am	✓	Plenary Session: John C. Wingfield, PhD	International Ballroom
10:00 am–7:00 pm	✓	Exhibit Booths	Columbia Ballroom
10:00 am–7:00 pm	✓	Silent Auction (All Day)	Columbia Ballroom
10:00 am–10:30 am	✓	Coffee Break	Columbia Ballroom
10:30 am–1:30 pm	⦿	Smithsonian Institution National Zoo Bird House Tours (30-minute tours to be held at 10:30am and 1pm daily)	Meet in Terrace Foyer
10:30 am–12:00 pm	✓	Symposia and Concurrent Sessions	See Schedule
12:00 pm–1:30 pm		Lunch Break	On Your Own
1:30 pm–3:00 pm	✓	Symposia and Concurrent Sessions	See Schedule
3:00 pm–3:30 pm	✓	Refreshment Break	Columbia Ballroom
3:30 pm–5:00 pm	✓	Symposia and Concurrent Sessions	See Schedule
5:00 pm–7:00 pm	✓	Poster and Exhibitor Reception	Columbia Ballroom
5:30 pm–7:00 pm	✓	Lightning Talks/Lightning Symposia	See Schedule
7:15 pm–9:00 pm	✓	Roundtables	See Schedule*
7:00 pm–10:00 pm	Ⓜ	Movie Night: "The Messenger"/Migratory Bird Treaty <i>Sponsored by USFWS and Environment and Climate Change Canada</i>	International Ballroom



*Please refer to the schedule, as Roundtables may extend beyond 9:00 pm.



- Field Trips, Birding and Tours
- Social Events
- Scientific Program
- Student Activities and Awards
- Exhibits and Poster Presentations

- ✓ Included in general registration fee
- Ⓜ Separate registration required
- ⦿ Onsite registration only
- Ⓢ Additional fee required

FRIDAY August 19

5:45 am–7:45 am	🕒	Morning Bird Walk	Meet in Terrace Foyer
8:00 am–10:00 am	✓	Plenary Session: Lourdes Mugica Valdés, PhD	International Ballroom
10:00 am–3:30 pm	✓	Exhibit Booths	Columbia Ballroom
10:00 am–10:30 am	✓	Silent Auction (Pick Up Items)	Columbia Ballroom
10:00 am–10:30 am	✓	Coffee Break	Columbia Ballroom
9:00 am–1:30 am	🕒	Smithsonian Institution National Zoo Bird House Tours (30-minute tours to be held at 10:30am and 1pm daily)	Meet in Terrace Foyer
10:30 am–12:00 pm	✓	Symposia and Concurrent Sessions	See Schedule
12:00 pm–1:30 pm		Lunch Break	On Your Own
1:30 pm–3:00 pm	✓	Symposia and Concurrent Sessions	See Schedule
3:00 pm–3:30 pm	✓	Refreshment Break	Columbia Ballroom
3:30 pm–5:00 pm	✓	Symposia and Concurrent Sessions	See Schedule
5:00 pm–6:00 pm	📍	Student-Professional Social	International Ballroom
6:00 pm–8:00 pm	📍	Quiz Bowl	International Ballroom
8:00 pm–Midnight	💰 📍	Bird Jam & Poetry Slam	International Ballroom

SATURDAY August 20

5:45 am–7:45 am	🕒	Morning Bird Walk	Meet in Terrace Foyer
8:00 am–10:00 am	✓	Plenary Session: Mike Webster, PhD	International Ballroom
10:00 am–10:30 am	✓	Coffee Break	Columbia Ballroom
10:30 am–1:30 pm	🕒	Smithsonian Institution National Zoo Bird House Tours (30-minute tours to be held at 10:30am and 1pm daily)	Meet in Terrace Foyer
10:30 am–12:00 pm	✓	Symposia and Concurrent Sessions	See Schedule
12:00 pm–1:30 pm		Lunch Break	On Your Own
12:00 pm–1:30 pm		AOU Golden Auks Luncheon	Embassy Room
1:30 pm–3:00 pm	✓	Symposia and Concurrent Sessions	See Schedule
3:00 pm–3:30 pm	✓	Refreshment Break	Columbia Ballroom
3:30 pm–5:00 pm	✓	Symposia and Concurrent Sessions	See Schedule
6:00 pm–10:00 pm	💰 📍	NAOC Banquet: A Night at the Zoo Sponsored by Friends of the National Zoo (FONZ)	Buses depart from Terrace Foyer beginning at 5:00pm

Don't Miss These Morning Plenaries!

WEDNESDAY *opening address and plenary speaker*



David J. Skorton, MD

Opening Address

DR. DAVID J. SKORTON began his tenure as the 13th Secretary of the 169 year old Smithsonian Institution in July 2015. Before joining the Smithsonian, Skorton served as president of Cornell University for nine years. Educated as a cardiologist, his research focus is congenital heart disease and cardiac imaging and image processing. He is the first medical doctor to lead the Smithsonian. Before becoming Cornell University's president, Skorton was president of the University of Iowa from 2003 to 2006 and a member of its faculty for 26 years.



Jessica U. Meir, PhD

Physiology at the Extreme: From Ocean Depths to Mountain Peaks Among the Stars

DR. JESSICA U. MEIR is a graduate of Brown University and received her Ph.D. from the Scripps Institution of Oceanography (UCSD), focused on the diving physiology of marine mammals and birds. She did her postdoctoral research in high altitude physiology at the University of British Columbia working on bar-headed geese in the Himalayan Mountains. Meir holds a Master of Space Studies degree from the International Space University in Strasbourg, France. Meir has spent much of her career as a research physiologist studying how animals and humans adapt to extreme environments.

Meir is one of eight members of NASA Astronaut Group 21 and has spent the last three years training and working at the Johnson Space Center in Texas. Last summer, Meir and her classmates graduated from their Astronaut Candidate training period and are currently awaiting their first flight assignments. These missions will consist of long duration stays (typically 6 months) to the International Space Station.

THURSDAY *plenary speaker*



John C. Wingfield, PhD

Nomads, Pioneers and Fugitives: On the Move in a Capricious World

DR. JOHN WINGFIELD has conducted research on hormone-behavior interactions, stress responses and environmental control of life cycles for over 40 years, including development of field and laboratory techniques. He is particularly interested in how birds respond to environmental signals (including social) and transduce that information into neural and neuroendocrine secretions that orchestrate morphological, physiological and behavioral responses. Implications for global change and conservation are also major foci. Dr. Wingfield's lecture is the 2016 Margaret Morse Nice Medal Lecture sponsored by the Wilson Ornithological Society.

FRIDAY *plenary speaker*



Lourdes Mugica Valdés, PhD

Desafíos para Conservar las Aves Cubanas: Lessons from Cuban Waterbirds

DR. LOURDES MUGICA VALDÉS is a professor in the Faculty of Biology at the University of Havana where she has worked in the Bird Ecology Group since 1981. She received her PhD and BS in Biological Sciences from Universidad de la Habana (Cuba), and her MS from Simon Fraser University. She has published 68 scientific papers and 16 book chapters, most of them focused on waterbirds in Cuba and the importance of wetlands used for rice production. Her research has prompted Cuban farmers to view waterbirds as an integral part of the rice agro-ecosystem rather than as pests. She has also been very active in environmental education and has organized several environmental education campaigns and capacity building workshops focused on bird conservation

and monitoring. Dr. Valdés is the former Director-at-Large in the Society for the Conservation and Study of Caribbean Birds and she has received many awards for her efforts in bird conservation, including the Cuban Academy of Sciences Award, the Whitley Award for Bird Conservation, the National Award for Science and Technology, and the Cuban National Environment Award.

SATURDAY *plenary speaker*



Mike Webster, PhD

Exploring the Sexual Phenotype

DR. MIKE WEBSTER is the Robert G. Engel Professor of Ornithology in the Department of Neurobiology and Behavior at Cornell University, and also Director of the Macaulay Library at the Cornell Lab of Ornithology.

His research focuses on the social behavior of birds from an evolutionary perspective, particularly focusing on the processes and outcomes of sexual selection. A particular focus is the evolutionary causes and consequences of variation in sexual signals, such as plumage ornamentation and song in birds. Research in Webster's lab is integrative and examines issues from both ultimate and proximate

perspectives, and combines intensive fieldwork with genetic, hormonal and other lab analyses to unlock the secret lives of birds and other taxa. Most of this work focuses on New World Warblers and Australian Fairy-wrens. Dr. Webster received his B.S. degree from the University of California at San Diego, and his PhD from Cornell University. After a Postdoctoral Position at the University of Chicago, Webster moved to academic appointments at SUNY Buffalo and Washington State University.

WEDNESDAY Session A (10:30 am–12:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	North American Breeding Bird Survey: Fifty Years and Counting for Bird Conservation—Highlights and New Research	Shorebirds in a Changing World: Connecting Research and Conservation	Adding molt to the full-annual-cycle perspective on avian conservation	Birds as city slickers: Unraveling the mechanisms of how birds cope with living in urban environments	Landscape Ecology	Tropical Ecology	Behavior
Mod	Pardieck & Sauer	Grond	Butler	Sumasgutner & Watson	Reitsma, Leonard	Renton, Katherine	Stoddard, Mary
10:30	Sauer, John Population Change in North American Birds: a 50-year Perspective from the North American Breeding Bird Survey	Smith, Paul Population Trends of Shorebirds in the Western Hemisphere: Using Patterns to Identify Problems	Johnson, Erik Tropical Birds Do and Don't Molt Like Temperate Birds	Rodewald, Amanda Causes & consequences of the urban phenotype.	Atuo, Fidel Functional importance of spatial heterogeneity and scale in the coexistence of sympatric avian predators	Rodriguez, Fabiola Distribution of the Honduran Emerald (<i>Amazilia luciae</i>) in tropical dry forests of the Agalta Valley, Honduras	Tringali, Angela The benefits of juvenile dominance in Florida Scrub-Jays (<i>Aphelocoma coerulescens</i>)
10:45		Weiser, Emily Predicting population trends of Arctic-breeding shorebirds in the context of global change	Wolfe, Jared Diversity and function of inserted molts in landbirds: a tropical-temperate comparison	Watson, Hannah Integrating 'omics' approaches to understand physiological coping mechanisms in urban environments	Shumar, Matthew Regional changes in breeding bird distributions: a strong proximate signal of landcover shifts in the face of growing climate pressure	Hick, Kristina Heard and not seen: Tropical wrens rely more on acoustic than visual signals for intra- and inter-specific discrimination	Caffrey, Carolee The Lives of Crows
11:00	Francis, Charles The Breeding Bird Survey and Bird Conservation in North America	Kwon, Eunbi Sympatric-breeding arctic species respond differently to climate cooling	Reudink, Matthew Conditions in the Mexican monsoon region affect feather carotenoid content and composition in a western moult-migrant, the Bullock's oriole (<i>Icterus bullockii</i>)	LaZerte, Stefanie Learning to cope with urban noise: Vocal adjustment in black-capped chickadees correlates with prior noise experience and may improve audibility in noisy conditions	Donovan, Kaley Songbird conservation on the landscape scale in southeast Ohio's public forestland using habitat suitability index models	Martinez, Ari Evaluating the influence of an alarm-calling bird on the cohesion and habitat use of mixed species flocks in a neotropical rainforest	Jones, Blake Learning about predators: Florida scrub-jays (<i>Aphelocoma coerulescens</i>) form lasting memories of a single predatory encounter.
11:15		McKinnon, Laura Assessing Shorebird Vulnerability to Potential Climate-Induced Changes in Food Availability	Tonra, Christopher Adventitious molt in an overwintering migratory bird: color change, carotenoid content, and implications for seasonal interactions.	Amar, Arjun Resolving an urban human-wildlife conflict: an experimental test of using falconry to reduce Egyptian Geese on golf courses	Saldanha, Sarah Foraging habitat selection of Breeding Bank Swallows in New Brunswick, Canada	Tinoco, Boris Effects of hummingbird morphology on specialization in pollination networks vary with resource availability	Goodman, Nickolas Time-Activity Budgets of Stiff-Tailed Ducks in Puerto Rico
11:30	Ziolkowski, David Things Everyone Using BBS Data Should Know.	Perkins, Marie Mercury exposure in Arctic-breeding shorebirds	Saracco, James Identification and Conservation of Landbird Molting Grounds in North America	Derryberry, Elizabeth Singing in the city: Investigating the mechanisms of how birds avoid masking in urban environments.	Schepker, Travis Are local site conditions or landscape structure more important in predicting waterbird distribution? Testing competing hypotheses across the non-breeding season	Burle, Marie-Helene Sex, age and populations: morphological variation in the endangered Tuamotu Sandpiper	Hyman, Jeremy Boldness in response to alarm calls in urban populations of song sparrow (<i>Melospiza melodia</i>)
11:45	Link, William Analyzing BBS data: Hierarchical models and model selection	Grond, Kirsten Disease Risk of Shorebirds in the Western Hemisphere	Butler, Luke Causes and consequences of variation in molt dynamics: implications for avian conservation	Sumasgutner, Petra Street-wise: productivity, individual health, diet and prey abundance of Black Sparrowhawks (<i>Accipiter melano-leucus</i>) in a newly colonized urban population	Reitsma, Leonard Mindful silviculture: creating habitat for greater avian biodiversity	Stanley, Calandra Drivers of overwintering space use strategies of wood thrush (<i>Hylocichla mustelina</i>)	Stoddard, Mary Egg Camouflage in Plovers and Terns: Insights from Computer Vision and Edge Detection

12:00-1:30pm Lunch Break, on your own.

WEDNESDAY Session A (10:30 am–12:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 8 Georgetown West	Room 9 Georgetown East	Room 10 Gunston East	Room 11 Gunston West	Room 12 Cardozo	Room 13 Fairchild East/West	Room 14 Cabinet
	Conservation	Molecular Ecology	Parental Care	Breeding Biology & Sexual Selection	Foraging & Food Habits	Human Dimensions	Climate
Mod	Paxton, Eben	Kaiser, Sara	Mock, Douglas	Murphy, Michael	Renfrew, Rosalind	Seavy, Nathaniel	Leu, Matthias
10:30	Sevillano, C Diversity, Ecology, and Conservation of Bird Communities of Polylepis Woodlands in the Northern Andes of Peru	Kaiser, Sara Unexpected kin relationships in a group-living Old World tropical babbler	Johnson, L. Scott The discovery of hatching and the transition to feeding young by males in the cavity-nesting Mountain Bluebird	Hall, Jared Parental Behavior and Attendance Patterns of Nesting White-tipped Doves (<i>Leptotila verreauxi</i>) in the Lower Rio Grande Valley of Texas	Williams, Tyler Clark's Nutcracker Seed Use and Limber Pine Meta-population Structure in Rocky Mountain National Park: Predicting Future Trends	Shaffer, Jill Effects of Wind-Energy Facilities on Breeding Grassland Bird Distributions	Duclos, Timothy Direct and indirect influences of climate on bird species abundance along elevation gradients in the northern Appalachians
10:45	Rosa, Patricia Mimicking the sounds of oil extraction: A play-back experiment assessing effects of oil development noises on nesting success and abundance of grassland songbirds	Han, Kin-Lan Are nuthatches good at dispersing?	Mumme, Ronald Simultaneous rectrix molt is associated with uniparental desertion of late-season young in Hooded Warblers	Phillips, Jennifer Natural and sexual selection on performance of songs in urban white-crowned sparrows	Castañeda, Xeronimo Determining hunting habitat preference of barn owls (<i>Tyto alba</i>) in a vineyard agroecosystem	Bowerman, William Historic and Emerging Sources of Mortality in Bald Eagles in Michigan, 1987-2011	Merker, Samuel Investigating factors limiting species distributions at low-latitude range margins
11:00	Nichols, K. Sami Bird-Building Collision Risk: An Assessment of Phylogenetic and Behavioral Factors Using Two Citizen-Science Data Sets	Venkatraman, Madhvi Impact of European settlement on genetic variation and population size of an endemic bird species of the California Channel Islands: <i>Aphelocoma insularis</i>	Ng, Christoph Parental Behavior of Chestnut-collared Longspurs at Nests in Response to Oil and Gas Infrastructure	Marini, Kristen City life and chickadees: effects of urbanization on reproductive success and dawn chorus behaviour in mountain chickadees (<i>Poecile gambeli</i>)	O'Daniels, Sean On the Visual Ecology of Woodpeckers	Frank, Cristina Avian Protection and Identifying Electrocution and Collision Risk Areas for Raptors	Davis, Kyle Size Variation with Altitude in the Rufous-Collared Sparrow
11:15	Mulholland, Tracy Effects of Anthropogenic Noise Exposure on Secondary Cavity Nesters	Taylor, Sabrina Hybridization and genetic structure of Mottled Ducks in the western Gulf Coast	Lundblad, Carl Is hatching asynchrony adaptive? Latitudinal gradients in breeding behavior of Burrowing Owls.	Winkler, David A mechanistic predictive model for laying date in birds	David, Santiago Foraging niche structure and coexistence in a highly diverse community of Amazonian antbirds (<i>Thamnophtidae: Aves</i>)	Anthony, Matthew Historical analysis of birders' attitudes towards ornithology with implications for Citizen Science	Steen, Valerie Preparing for an Uncertain Future: Assessing Responses of Migrating Shorebirds to Climatic Fluctuations in the Prairie Pothole Region
11:30	Foote, Dustin Melding Research and Education in a Zoological Setting	Kovach, Adrienne Gene flow and Adaptation in a Tidal Marsh Specialist	Ritchie, Alisha Intrinsic and extrinsic factors influencing parental provisioning rates of a migratory songbird, Purple Martin (<i>Progne subis</i>)	Walters, Eric Temporal variability and cooperative breeding: testing the bet-hedging hypothesis in the acorn woodpecker	Herman, Rachael Individual Specialists, Population Generalists, and Gentoo Penguin Foraging Ecology Across the Scotia Arc	Douglas, David The effects of onshore wind farms on breeding shorebirds	Hayward, James Climate change, cannibalism, reproductive synchrony, and tipping points in seabirds
11:45	Paxton, Eben Collapsing avian community on a Hawaiian island	Van Doren, Benjamin Conserved genomic landscapes of genetic diversity and divergence across an avian family	Mock, Douglas Resolving Sexual Conflict over Biparental Care	Murphy, Michael Seasonal decline of clutch size by a migratory passerine: The relative importance of environmental and female quality.	Renfrew, Rosalind Winter diet derived from stable isotopes across the breeding range of a long-distance migratory grassland songbird	Sandhaus, Estelle Condor Kids: At the Intersection of Research, Conservation, & Education	Leu, Matthias Spatial and temporal factors influencing shrubland-bird habitat use on the wintering grounds in the southwestern U.S.

12:00-1:30pm Lunch Break, on your own.

WEDNESDAY Session B (1:30 pm–3:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	North American Breeding Bird Survey: Fifty Years and Counting for Bird Conservation—Highlights and New Research	Shorebirds in a Changing World: Connecting Research and Conservation	Empowering population-level inference through study of avian life histories with integrated population models	Birds in Coupled Human and Natural Systems	Application of climate response models to bird conservation in the Americas	Avian Influenza at the Interface of Wild Birds, Poultry, and Humans	Behavior
Mod	Pardieck & Sauer	Grond	Weegman & Ross	Beissinger & Martin	Wilsey & Langham	Prosser & Takekawa	Stoddard, Mary
1:30	Handel, Colleen Increasing Power of the Breeding Bird Survey: Joint Analysis of Roadside and Off-road Data to Assess Avian Population Trends in Alaska	Nol, Erica Retraction of the range of a sub-arctic breeding shorebird: are the causes always clear?	Gebreselassie, Fitsum Abadi An introduction to integrated population models in avian biology	Beissinger, Steven Rails in a Working Landscape: Links Between Metapopulation Dynamics, Landowner Decisions, Drought, and Disease Ecology.	Wilsey, Chad Model-based assessment of climate sensitivity for grassland birds	Prosser, Diann Review of Avian Influenza and Global Perspective	Bonderud, Erica Female mountain bluebirds paired to more colourful males produce male-biased broods
1:45	Mitchell, Greg Combining Breeding Bird Survey data and crop mapping to assess how amount and diversity of agriculture affects avian diversity in central Canada	Lank, David Implications of Raptor Population Increases for Management of Migratory Shorebirds	Baillie, Stephen Using integrated population models to understand the demographic mechanisms driving population changes at large spatial scales		Stralberg, Diana Identifying climate-change refugia and conservation priorities for boreal passerines	Swayne, David Intercontinental Spread of H5N8 from Asia to North America	Moser-Purdy, Christopher Enemies aren't always dear: Male song sparrows vary the dear enemy effect across different periods of female fertility
2:00	Rodriguez-Contreras, Vicente Filling the gaps: BBS in Mexico	Flemming, Scott Evaluating the large-scale effects of hyperabundant geese on sympatric-nesting shorebirds	Wilson, Scott Integrated Population Modeling to Assess Demographic Variation and Contributions to Population Growth for Endangered Whooping Cranes		Velo, Sam Integrating dynamic vegetation models with abundance models to identify priorities for avian conservation and habitat management	Harris, M. Camille Wild Bird Highly Pathogenic Avian Influenza Surveillance in the US (Winter 2014-Spring 2015)	Johnson, Allison Heterospecific sociality mediated by song discrimination in fairy-wrens (Malurus sp.)
2:15	Rosenberg, Kenneth Use of Breeding Bird Survey Data in Avian Conservation Assessments	Kennedy, Lisa Can Snow Geese and Shorebirds Coexist in a Changing Arctic?	Converse, Sarah Integrated population modeling for species with complex life histories: application to Atlantic Yellow-nosed albatross	Benkman, Craig The evolutionary dynamics of a key life history trait, and the ecological consequences of climate change in fire-prone forests	Heinrichs, Julie Mechanistic modeling and conservation implications of climate change for the endangered Black-capped vireo	DeLiberto, Thomas Highly Pathogenic Avian Influenza Surveillance in Wild Birds Across the United States	Dossman, Bryant Seasonal rainfall influences inter- and intra-seasonal territorial dynamics of a migratory bird.
2:30	Sauer, John Integrating Breeding Bird Survey and Demographic Data to Inform Wood Duck Management	Pierce, Allison How land ownership, land use, and the potential for a trophic cascade impact conservation models for Mountain Plover.	Coates, Peter Using a hierarchical integrated population model to help guide conservation actions: an example of greater sage-grouse in the Bi-State Distinct Population Segment of California and Nevada	Rodewald, Amanda Socioecological drivers of urban bird communities: trait and density-mediated consequences of human inputs.	Panjabi, Arvind Projecting Desert Wintering Capacity for Grassland Birds Under a Changing Climate	Culhane, Marie The mysterious arrival of H5N2 highly pathogenic avian influenza in the Mississippi flyway	Hudson, Emily Introductory whistle is sufficient for species recognition in golden-crowned sparrow nestlings
2:45	Pardieck, Keith Migratory bird conservation planning in the Northern Plains using spatial models developed from stop-level BBS data	Senner, Nathan Relaxed Selection and the Cost of Migration in the Anthropocene	Rushing, Clark Using integrated population models to estimate seasonal survival and full-annual-cycle drivers of population dynamics in migratory birds		Ribic, Christine Climate impacts on grassland bird demography are mediated by patch size	Stallkencht, David Potential barriers to the establishment of exotic highly pathogenic influenza A viruses in North American wild bird populations.	Scholes, Edwin Seeing the female perspective: Directional appearance of visual ornaments in the courtship phenotype of Wilson's Bird-of-Paradise, <i>Cicinnurus republika</i> .

3:00-3:30pm Refreshment Break, Columbia Ballroom.

WEDNESDAY Session B (1:30 pm–3:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 8 Georgetown West	Room 9 Georgetown East	Room 10 Gunston East	Room 11 Gunston West	Room 12 Cardozo	Room 13 Fairchild East/West	Room 14 Cabinet
	Conservation	Genomics	Ecotoxicology	Songs & Vocalizations	General Ecology	Management	Migration & Stopover
Mod	Rimmer, Chris	Oh, Kevin	Guglielmo, Christopher	Mennill, Daniel	Catlin, Daniel	Darrah, Abigail	Fournier, Auriel
1:30	van Rees, Charles Population Structure and Movement Ecology of the Hawaiian gallinule (<i>Gallinula galeata sandvicensis</i>)	Aguillon, Stephanie Using genomics to characterize differentiation and hybridization in the Northern Flicker	Norbury, Veronica Ecotoxicological Impacts of Run-Of-River Dams on American Dippers and Mountain Stream Food Webs	Ferguson, Stephen Local dialects of a geographically variable, female-specific call elicit greater aggression	Twining, Cornelia When less is more: Omega-3 long-chain polyunsaturated fatty acids support aerial insectivore performance more than food quantity	Bailey, Robyn Do predator guards on nest boxes improve reproductive success of birds?	Aloni, Irith February precipitation in the wintering grounds of the Lesser Whitethroat as a migration cue
1:45	Funk, Erik Using phylogenetic distinctiveness to prioritize species conservation in the largest family of songbirds (Thraupidae)	Seibert, Sara ddRADseq identifies gene associated with avian malarial infection in Red-billed Teal	Jackson, Allyson Move over aerial insectivores: aquatic nutrient and mercury subsidies to forest songbirds traced through stable isotopes	Paul, Nadine What does the Ovenbird say? Flight song structure varies within and among individuals	Wood, Nicole The Ecological Impacts of the Invasive Mute Swan on Submerged Aquatic Vegetation, Fish, and Abiotics in Great Lakes Coastal Wetlands	Nareff, Gretchen Cerulean Warbler and Associated Species Response to Silvicultural Prescriptions in the Central Appalachian Region	Kramer, Gunnar Nonbreeding isolation and population-specific migration routes among three populations of Golden-winged Warblers
2:00	Schulwitz, Sarah Timing of isolation of the Jackson Hole, Wyoming Greater Sage-grouse population	FitzGerald, Alyssa Phylogeography of the Gray-cheeked Thrush (<i>Catharus minimus</i>)/ Bicknell's Thrush (<i>C. bicknelli</i>) species complex	Morrissey, Christy Oil contaminant impacts on pre-migratory fuelling in two shorebird species	Reichard, Dustin Female Dark-eyed Juncos produce male-like song in a territorial context during the early breeding season	Pattinson, Nicholas Seasonal physiological and behavioural characteristics of a small bird in an unpredictable, arid habitat	Martin, James Adaptive harvest and habitat management of northern bobwhites: balancing population recovery and cultural heritage	Cardenas Ortiz, Laura Fall migration and migratory connectivity of Canada Warbler moving through northern Colombia
2:15	Reynolds, Mark When is additional shorebird habitat most needed in California's Sacramento Valley?	Campagna, Leonardo Divergent phenotypes despite (mostly) homogeneous genomes: insights from a continental avian radiation	Bonisoli Alquati, Andrea Transcriptomic response to oil contamination in Louisiana Seaside Sparrows	Hedley, Richard Is there more to song matching than meets the ear? Evidence from a complex singer	Mathewson, Heather New insights into the ecology of a species at the edge of its range	Williams, Kate Laying the Groundwork for Responsible Development of Offshore Wind Energy in the United States: Baseline Studies of Avian Distributions and Movements	Mancuso, Melanie The Energetic Importance of Apalachicola Bay Barrier Islands for Transient Birds during Spring Migration
2:30	Powell, Luke Interspecific competition between resident and wintering warblers: Evidence from a 3D removal experiment	Toews, David Plumage genes and little else distinguish the genomes of hybridizing golden-winged and blue-winged warblers	Okichich, Amy Acute Toxicity of Gossypol on Northern Bobwhites	Odom, Karan Differences in female and male duetting behavior in a tropical breeding songbird	Phillips, Emily The Relationship between Fledging Age and Nest Temperature in Western Bluebirds	Fiss, Cameron Habitat selection of Golden-winged Warbler fledglings in managed forests: the importance of structural diversity in local landscapes.	Whittam, Becky Over 8,000 songbirds die at a gas flare on the Bay of Fundy coast
2:45	Rimmer, Chris Narrowing the Search for Overwintering Bicknell's Thrush in the Caribbean	Gulson-Castillo, Eric Large bills may aid thermoregulation in Asian tropical forest birds	Guglielmo, Christopher Crude oil on feathers impairs takeoff performance and increases endurance flight energy costs in the Western Sandpiper (<i>Calidris mauri</i>)	Mennill, Daniel Vocal learning in wild birds: a four-year playback experiment	Catlin, Daniel Carryover Effects of Reproductive Performance and Density Dependence Influence Breeding Propensity in a Short-lived Species	Hathcock, Charles Hazards to Birds from Open Metal Pipes	McGowan, Conor Decision analysis for habitat management of migratory waterfowl using a full annual cycle model.

3:00-3:30pm Refreshment Break, Columbia Ballroom.

WEDNESDAY Session C (3:30 pm–5:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	North American Breeding Bird Survey: Fifty Years and Counting for Bird Conservation—Highlights and New Research	Shorebirds in a Changing World: Connecting Research and Conservation	Empowering population-level inference through study of avian life histories with integrated population models	Birds in Coupled Human and Natural Systems	Application of climate response models to bird conservation in the Americas	Avian Influenza at the Interface of Wild Birds, Poultry, and Humans	Behavior
Mod	Pardieck & Sauer	Grond	Weegman & Ross	Beissinger & Martin	Wilsey & Langham	Prosser & Takekawa	Stoddard, Mary
3:30	Smith, Adam Do I always want the best model? The conservation implications of alternative models for status and trend estimates from the Breeding Bird Survey	Burle, Marie-Helene Translocation priorities for endangered shorebird altered by floral physiology	McConnell, Mark Estimating Northern Bobwhite Recruitment Using Integrated Population Models	Francis, Clinton The functional significance of soundscapes in coupling biodiversity, psychological ecosystem services and conservation	Peterson, A. Townsend Measuring rather than Predicting: Before-and-after Comparisons of Avifaunas to Detect Climate Change Effects	Spackman, Erica Highly Pathogenic Avian Influenza Challenge Studies in Waterfowl	Lara, Carlos Does social status modulate sperm characteristics in the wild?
3:45	Veech, Joseph How well do route survey areas represent landscapes at larger spatial extents? An analysis of land cover composition along Breeding Bird Survey routes	Johnston, Richard Changing habitat for non-breeding shorebirds along the Pacific coast of the Americas: a GIS approach	Hatfield, Jeff Estimating golden-cheeked warbler immigration using integrated population models: implications for the spatial scale of conservation	Munoz, Jenny Understanding the feedback loop between birds and coffee culture in Colombia	Iknayan, Kelly Influence of a century of climate and habitat change on desert birds	Densmore, Christine Avian Influenza Virus in the Aquatic Environment: Biosurveillance Using Potential Biotic and Abiotic Reservoirs	Lantz, Samantha Rapid environmental disturbance increases social connectivity in a tropical passerine bird
4:00	Hines, James Dynamic Modelling of BBS Data: Effects on Inference	Gratto-Trevor, Cheri Answering conservation questions for a species at risk, the Piping Plover	Boomer, Scott Integrated population modeling as a basis to inform waterfowl harvest regulations	Heath, Joel Community-driven research and interactive mapping tools for sea ice knowledge with Inuit and Cree in Hudson Bay, Canada	Pearce-Higgins, James Variation in climate change impacts	Slemons, Richard Long-term efforts toward understanding the natural history of influenza A viruses in Delmarva waterfowl	Davis, Kayla Hatch Year Roseate Tern (<i>Sterna dougallii</i>) Behavioral Responses to Anthropogenic Disturbances and Natural Events
4:15	Saracco, James Integrated Population Models for Broad-scale Bird-monitoring Data in North America	Mizrahi, David Migratory connectivity and demographic properties in Semipalmated Sandpipers: implications for conservation	Ross, Beth Combining multiple data sources to determine drought and land-use impacts on Lesser Prairie-Chickens	Wood, Christopher Understanding birders to better understand birds	Herzog, Sebastian Exposure- and trait-based evaluation of local climate change vulnerability in tropical Andean birds: key vulnerabilities over replicated elevational gradients	Stallkencht, David Evidence for a seasonal peak in relative abundance of H7 subtype influenza A virus in blue-winged teal (<i>Anas discors</i>) along the United States Gulf Coast and potential implications to poultry production	Geary, Brock Brown pelican (<i>Pelecanus occidentalis</i>) foraging and movement ecology in the northern Gulf of Mexico
4:30	PANEL DISCUSSION	Warnock, Nils A waterbird crisis of global proportions: filling in the Yellow Sea and implications for North American birds	Chandler, Richard Spatially explicit integrated population models for understanding the factors limiting Canada Warbler populations in the Southern Appalachian Mountains		Jensen, Caitlin The National Park Stage: Conserving Current and Future Bird Assemblages	van Dijk, Jacintha The role of waterfowl movements in the spread of avian influenza virus	Huffeldt, Nicholas Per Sex-specific, inverted rhythms of activity in a polar breeding seabird
4:45		Clay, Rob The Western Hemisphere Shorebird Reserve Network: using science to support shorebird conservation across the hemisphere	Weegman, Mitch Integrated population models reveal local weather conditions and not climatic effects explain variation in adult survival and fledging success in an aerial insectivore	Martin, Kathy Ornithological studies using Coupled Human and Natural Systems in the Americas: summary and synthesis of opportunities and challenges	Willis, Stephen The potential impacts of future climate change on bird communities across Latin American Important Bird Areas: adapting management for change	Choi, Chang-Yong Predicting persistence of the highly pathogenic avian influenza virus in the post-breeding ground of Swan Geese (<i>Anser cygnoides</i>) through analysis of satellite telemetry data and agent-based epidemiological model	Niemasik, Esther Genetic fitness returns for brown-headed nuthatches (<i>Sitta pusilla</i>) are impacted by group size and heterospecific competition.

WEDNESDAY Session C (3:30 pm–5:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 8 Georgetown West	Room 9 Georgetown East	Room 10 Gunston East	Room 11 Gunston West	Room 12 Cardozo	Room 13 Fairchild East/West	Room 14 Cabinet
	Conservation	Genomics	Endocrinology	Songs & Vocalizations	General Ecology	Management	Migration & Stopover
Mod	Rimmer, Chris	Winker, Kevin	Guglielmo, Christopher	Luttrell, Sarah	Catlin, Daniel	Darrah, Abigail	Fournier, Auriel
3:30	Vazquez Miranda, Hernan Comparative conservation genomics of the Endangered California Gnat-catcher and three co-distributed birds in Baja California	Hanna, Zachary Extent of Introgression Detected in Spotted Owls and Western Barred Owls	Taff, Conor Rapid Physiological and Behavioral Flexibility in a Wild Bird: Optimizing Phenotypes in a Dynamic World?	Luttrell, Sarah Comparison of call types between subspecies of Marsh Wren (<i>Citothorus palustris</i>) suggests variation in behavior, not acoustics	Street, Phillip Late summer habitat as a limiting factor for fitness in Greater Sage-grouse	Andes, Alicia Using Video Cameras to Evaluate Nest Fate Classification of Least Terns and Piping Plovers on the Missouri River	Nemeth, Zoltan Cognitive, behavioral and physiological responses to disturbance and novelty vary with life history in a songbird
3:45	Burgio, Kevin Integrating multiple dimensions of biodiversity and considerations of climate change for parrot conservation	Clucas, Gemma Are penguins really all that philopatric?	Elderbrock, Emily Corticosterone treatment influences nestling behavior and sibling competition in Florida scrub-jays	Celis Murillo, Antonio The role of nocturnal song in extra-pair mating of diurnal birds	James, Douglas Status of the Egyptian Goose (<i>Aplochen aegyptiacus</i>) in Northwestern Arkansas	Stephens, Jaime Effect of river restoration on riparian bird density and nest success on the Trinity River, California, USA	Zenzal, Theodore Resource Use and Defense by Ruby-throated Hummingbirds (<i>Archilochus colubris</i>) during Autumn Migration
4:00	Pejchar, Liba Hawaii's introduced birds: ecological replacements for native species?	Lansverk, Allison Domestication and adaptation to captivity in the Zebra Finch (<i>Taeniopygia guttata</i>)	Madliger, Christine Baseline corticosterone levels do not reflect environmental quality and fitness simultaneously in a declining aerial insectivore: implications for conservation applications	Logue, David Within-day improvement in a behavioural display: wild birds 'warm up'	Bayly, Nicholas The elevational distribution and winter ecology of the Canada Warbler in the Andes of Colombia: the basis for defining conservation priorities	Wilcox, Jennifer Short-term Changes in Breeding Bird Community Following Variable Timber Harvest in Bottomland Forests of Arkansas	DuBay, Shane Differential altitudinal migration and elevational range size are associated with differences in thermal tolerance in Tarsiger bush-robins
4:15	Des Brisay, Paulson The effects of oil development on demographic structure and stress physiology of a threatened mixed-grass prairie songbird: the chestnut-collared longspur (<i>Calcarius ornatus</i>)	Chesser, Robert A UCE-based genus-level phylogeny of suboscine birds	Small, Thomas Reproductive success and lifespan in a long-lived passerine: sex specific consequences of stress-response phenotypes	Duke, Cameron Is there functional significance among different song types in Song sparrows (<i>Melospiza melodia</i>)?	Rockwell, Sarah Habitat selection of riparian songbirds at restoration sites along the Trinity River, CA, and the effect of invasive Himalayan blackberry	Clarke, Michael The Burning Question: Do all mosaics cater equally well for birds?	Fudickar, Adam Mechanisms of heteropatry in migratory and sedentary dark-eyed juncos (<i>Junco hyemalis</i>)
4:30	Langin, Kathryn Evaluating evolutionarily significant units in an alpine-endemic bird: a conservation genomics approach	Moyle, Robert Genomic insights into speciation in a widespread Pacific island bird lineage	Brown, Megan Captive environment enhances reproductive performance in captive whooping crane (<i>Grus americana</i>) pairs	Villegas-Bilbao, Mariana Vocal divergence in the Yungas Manakin along an Andean elevational gradient	Adams, Evan Distribution and Abundance of Breeding Marsh Birds of the Gulf of Mexico	Campos, Brent Avian Community Response to Mechanical Fuel Treatments in the Sierra Nevada, USA	Dokter, Adriaan Herbivores fuelling for long-distance migration: prisoners or masters of their food supply?
4:45	Hernandez-Palma, Angelica Matrix and area effects on the nutritional condition of understory birds in Amazonian rain-forest fragments	Braun, Edward The genome of <i>Bambusicola thoracicus</i> and insights on molecular evolution in Phasianidae	Horton, Brent Morph-specific variation in VIP expression in the brain of the behaviorally polymorphic white-throated sparrow correlates with reproductive strategy.	Jones, Harrison Call relevance and foraging ecology determine reliance on social information in an avian eavesdropping network	LaZerte, Stefanie Science, engagement, education: Open, web-based visualization and analysis of animal movement data	Darrah, Abigail An interactive decision support tool to predict the demographic consequences of exclosure use in U.S. Atlantic Coast Piping Plovers	Fournier, Auriel Migratory Connectivity of Sora, Virginia and Yellow Rails

WEDNESDAY Session C

(3:30 pm–5:00 pm)

WEDNESDAY Session D

(5:30 pm–7:00 pm)

Lightning Symposia

	Room 17 International Ballroom
	Early Professional Mini-Talks <i>The Early Professionals Committee of the AOU is hosting this third-annual special symposium to highlight the exciting research performed by professionals in the beginning stages of their careers.</i> #EPMiniTalks
Mod	Butler & Kaiser
3:30	Butler, Michael Welcome to the Early Professionals Mini-Talk Symposium
3:35	Chen, Nancy Evolutionary genomics of pedigreed wild populations
3:40	Dokter, Adriaan Movement ecology going big
3:45	Contina, Andrea Modern ornithology and extensive interdisciplinary approach
3:50	McEntee, Jay Muddy boots, singing birds, and big trees: Integrative study of bird speciation and diversification
3:55	Goyert, Holly Facilitative foraging strategies in marine birds
4:00	Adams, Evan Creating a Monster: Combining Data from Multiple Sources for Stronger Inference
4:05	van Rees, Charles The Landscape Ecology and Conservation of Hawaiian waterbirds
4:10	Cramer, Emily Sexual selection before and after copulation in passerines
4:15	Moseley, Dana Listening to the receiver in birdsong and acoustic ecology
4:20	Abraham, Elizabeth Isotope analysis: a springboard for human impact studies
4:25	Dale, Katherine Small animals and big data: Fusing computer science with field ecology
4:30	Jones, Blake Assessing the relationships among behavior, cognition, and physiology in the field.
4:35	Cortes, Maria Geographic Variation and population genetics in Neotropical Orioles
4:40	Wolfe, Jared Using long-term bird capture data to identify climate change winners and losers
4:45	Liu, Irene Sperm as tools of conflict, cooperation, and conservation
4:50	Winger, Benjamin Evolutionary consequences of dispersal and migration in birds
4:55	Hauber, Mark Reflections on the Early Professionals Mini-Talk Symposium

Lightning Symposia

	Room 10 Gunston East
	Lightning Symposium: The Role of Modern Zoos in Avian Conservation
Mod	Kerr & Hallager
5:30	Hallager, Sara Experience Migration on Bird House Plateau
5:35	Good, Shane A Natural Pair: Zoo Professionals and Ornithologists Working Together to Save Local Bird Populations
5:40	Sheppard, Christine Zoos: Important conservation partners in actively addressing wild bird mortality from collisions with glass
5:45	Kreger, Michael Because it's all about the birds: Building partnerships between the U.S. Fish and Wildlife Service and zoos
5:50	10 minute Q&A
6:00	Elvin, Sandra Achieving Conservation through the AZA-Saving Animals From Extinction Program
6:05	Palfrey, Katy The role of conservation breeding in the recovery of threatened avian species
6:10	Sweeney, Roger Hornbills: A role for zoos in supporting field conservation
6:15	Lacy, Anne Learning from experience: Adaptive management for Whooping Crane conservation
6:20	10 minute Q&A
6:30	Mooers, Arne How might zoos best steward the (Avian) Tree of Life?
6:35	Coyle, Brian Red Siskin Initiative: Recovering a highly endangered and iconic bird through captive breeding, genomics and agroforestry
6:40	Martinsen, Ellen The Role of Zoological Park Collections in Pathogen Surveillance and Study
6:45	Callicrate, Taylor Condors, cranes, and computers: using next-generation tools to enhance zoo contributions to conservation
6:50	10 minute Q&A

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WEDNESDAY Session D (5:30 pm–7:00 pm)

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Lightning Symposia

Room 11 Gunston West	
Lightning Symposium: Birds & Farms: Science & Romance	
Mod	Wilson & Weidensaul
5:30	Wilson, Bill Why Birds and Farms?
5:35	Will, Tom Full Life Cycles: Migratory Connections in Birds and Coffee
5:40	Hruska, Johnathan The Conservation of Upland Forest in West-Central Nicaragua: "El Nisperal" Coffee Farm as a Case Study
5:45	Fallon, Katie Making Connections: Birds, Farms, and People
5:50	10 minute Q&A
6:00	Latham, Jonathan Revisiting the effects of insect-resistant GMO crops in agriculture
6:05	Wilson, Allison Birds and the GMO Food Web
6:10	Stutchbury, Bridget What Science Tells US About Bird-Friendly® Farms
6:15	Dayer, Ashley Beyond knowledge: Understanding what might influence people's bird-friendly coffee purchasing behaviors
6:20	10 minute Q&A

Lightning Symposia

Room 13 Fairchild East/West	
Lightning Symposium: Keeping Common Birds Common I: Innovative Science in the Service of Conservation – Approaches	
Mod	Rosenberg & Rushing
5:30	Rosenberg, Kenneth Conservation Status of the North American Avifauna
5:35	Rich, Terrell Partners in Flight Species Vulnerability Assessment: A Long-term Foundation for Prioritizing Conservation Action
5:40	Panjabi, Arvind Avian Conservation Assessment highlights diversity and vulnerability in Central American Forests
5:45	Alexander, John Partners in Flight as a Catalyst for Ecosystem Conservation
5:50	10 minute Q&A
6:00	Stanton, Jessica Predicting the future: 'half-life' projections and urgency metrics for North American birds
6:05	Rushing, Clark Advances in full-annual-cycle modeling to inform bird conservation
6:10	Bayly, Nicholas Migration stopover strategies within the Neotropics: filling the black hole in our knowledge of annual cycles
6:15	Ruiz-Gutierrez, Viviana A Vision for an Integrated Monitoring Framework for the Western Hemisphere
6:20	10 minute Q&A
6:30	Bonnot, Thomas Conservation decisions for multiple species with multiple uncertainties
6:35	Reynolds, Mark Using Big Data to Drive Conservation of the Pacific Flyway in California
6:40	Parr, Michael Alliance for Zero Extinction
6:45	Keller, Becky Migratory Bird Joint Ventures: Bridging science and implementation to conserve North American birds
6:50	10 minute Q&A

WEDNESDAY Session D (5:30 pm–7:00 pm)

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Lightning Symposia

	Room 16 Dupont
	Lightning Symposium: Full Life Cycle Conservation through Education Making Connections for Migratory Bird Conservation Across the Western Hemisphere
Mod	Bonfield
5:30	Bonfield, Susan Unifying the Voice for Migratory Bird Conservation Across the Western Hemisphere through Festivals
5:35	Leavelle, Karen Sister Parks: Creating Connectivity for Migratory Bird conservation between US and Costa Rica national parks and reserves.
5:40	Deinlein, Mary Full Life Cycle Conservation through Education: Making Connections for Migratory Bird Conservation Across the Western Hemisphere
5:45	Contreras, Sarahy Amigos Alados: Students of the Americas Protecting Migratory Birds
5:50	10 minute Q&A
6:00	Chu, James Full Life Cycle Conservation through Education
6:05	Beavers, John Full Life Cycle Conservation through Education
6:10	Sorenson, Lisa Advancing Caribbean Bird Conservation through the Media
6:15	Douglas, Leo How does a two-day bird education event affect the long-term knowledge, attitudes, and behaviors of high school students? Evidence from 13 Jamaican high schools.
6:20	10 minute Q&A

Lightning Talks

	Room 12 Cardozo
	General Lightning Session
Mod	Kerns
5:30	Johnson, Douglas Can We Count Birds?
5:35	Clarkson, Charles Using randomly-located point counts to enhance bird atlases: A case study in Rhode Island
5:40	Whatton, James Louse on Snowy Owl Highlights Importance of Documentation During Specimen Preparation
5:45	McGann, Andrew New geospatial and sensor technologies for quantifying bird behavior
5:50	Kearns, Laura Migration patterns of greater sandhill cranes (<i>Grus canadensis tabida</i>) from Ohio
5:55	5 minute Q&A
6:00	Mallon, Julie Stopover behavior of soaring birds is driven by weather
6:05	Gambino, Laura Flowering plant richness explains hummingbird migration better than a remotely sensed proxy
6:10	Johns, David Experimental evidence of energy expenditure–feather corticosterone relationships
6:15	Auer, Tom Challenges in Big Data Ornithology: Grounds for a Technical Working Group?
6:20	5 minute Q&A

	Room 15 Embassy
	General Lightning Session
Mod	Powell
5:30	Keys, Rob If we build it THEY will come: Restored tall grass prairies and grass-land birds
5:35	Foley, Gabriel Habitat selection in Canada's boreal forest by the Common Nighthawk
5:40	Moseley, Dana Casting a sonic net: deterring birds from food sources using acoustic ecology
5:45	Malpass, Jennifer Conserving our urban birds: Lessons from the OSU Yard Birds Project
5:50	CANCELED
5:55	5 minute Q&A
6:00	Priam, Judith Pelicanus occidentalis' nesting disturbance on a small island in the Guadeloupe archipelago.
6:05	Lobato-García, José Alberto Organization of College-Level Research Groups for the Long-Term Study of Birds
6:10	McDonald, Laurel Landscape composition influences area sensitivity by songbirds in Manitoba's endangered tall-grass prairie ecosystem
6:15	Kamm, Matthew Quadcopter Drone Photography as a Means of Characterizing Breeding Habitat in the American Kestrel (<i>Falco sparverius</i>)
6:20	Powell, Luke Does primary Lower Guinea rainforest harbor a unique Afrotropical bird community? A primary/secondary forest comparison effort from the Biodiversity Initiative
6:25	5 minute Q&A

POSTER PRESENTATIONS *Poster presentations begin at 5:00 pm

- Cohen, Jonathan**
State Uncertainty Models For Understanding Nonbreeding Site Use By The Piping Plover
- Bartkovich, Mercedes**
Estimating Breeding Origins and Stopover Patterns of Four Migrant Songbird Species in Northern Alabama Using Stable Isotope Analysis
- Gesicki, David**
Nocturnal Flight Behavior of Migratory Songbirds in Relation to Wind Along the Southwest Coast of Lake Erie
- Schofield, Lynn**
Describing Migratory Behaviors During Stopover Using Automated Radio Telemetry
- Mendez, Devin**
Temporal and Spatial Patterns of Spring Northbound Veeries (*Catharus fuscescens*) from a single Delaware breeding population
- Peña-Peniche, Luis**
Characterization of climate niche Baird's Sparrow (*Aves: Emberizidae*) during their migratory cycle
- Snell, Katherine**
Minimum temperature influences initiation of long distance fall migration in individual-based simulated tracks
- Matta-Pereira, Miguel**
Long-term trends in Nearctic-Neotropical warbler migration through a mountain pass in northern Venezuela.
- Medel, Javier**
Discovery of an important migratory corridor for raptors in South America
- Solomon, Lauren**
Full-service hotels, convenience stores, or fire-escapes: evaluating fall stopover sites for Neotropical migratory songbirds in the northern Yucatan Peninsula
- Tracy, Diane**
Lightweight GPS tags show migratory use of desert wash and other habitat types by western yellow-billed cuckoos
- Seewagen, Chad**
Mobilization of mercury from lean tissues during simulated migratory fasting in a model songbird
- Laughlin, Andrew**
Combining Doppler radar with eBird to quantify winter occupancy and autumn migration dynamics of an aerial insectivore
- Kimmit, Abigail**
Do differences in female reproductive timing influence gene flow in seasonal sympatry?
- Ellis, Hugh**
Time-activity and energy budgets of Eared Grebes at Salton Sea, California
- Adams, Zachary**
Relationship of Invasive Berry Producing Plants on Bird Communities and Observer Bias
- Fetterman, Alison**
Assessing Habitat Quality for Migratory Landbirds in Southeastern Pennsylvania
- Droke, Justin**
Comparison Between Spring Migration Strategies of Mallards and American Black Ducks Wintering in the Finger Lakes Region
- Gahbauer, Marcel**
Changes in warbler migration over ten years of standardized monitoring at McGill Bird Observatory, Quebec
- Junda, James**
Molt-migration of thrushes, warblers and other passerines in eastern Canada
- Smith, Kimberly**
Occurrence of Northern Saw-whet Owls in northwestern Arkansas during fall migration

POSTER PRESENTATIONS *Poster presentations begin at 5:00 pm

- 23 **MacPherson, Maggie**
Surfing the Heat Wave or the Green Wave: Divergent Ecological and Evolutionary Consequences for Nearctic Neotropical and Austral Migrant Kingbirds
- 24 **Allen, Brian**
Habitat Selection by American Woodcock during Fall Stopover on Cape May Peninsula, New Jersey
- 25 **Deutschlander, Mark**
Are annual and seasonal variation in energetic condition in parulids during spring stopover due to weather?
- 26 **LeBlanc, Delaina**
Understanding migratory connectivity of Red Knots (*Calidris canutus*) in the northern Gulf of Mexico
- 27 **Wellik, Michael**
Airspace use by night migrating landbirds in relation to the southwestern shore of Lake Erie, OH.
- 28 **Gutierrez Ramirez, Mariamar**
Refueling performance of spring trans-Gulf migrants and the influence of lean body mass on stopover duration
- 29 **Hatch, Margret**
A comparison of morphological and physiological traits between males and females of three sexually monomorphic songbirds
- 30 **Jahn, Alex**
Do intra-tropical migratory Fork-tailed Flycatchers (*Tyrannus savana*) perform molt-migration in South America?
- 31 **Fischer, Sarah**
Comparing migration phenology using bird-window collision rates on a university campus in Indiana
- 32 **Barbosa, Karlla**
Does urbanization affect timing of bird migration in Brazil's Atlantic Forest?
- 33 **Connell, Eileen**
Connecting Breeding and Winter Locations of a Migrant Songbird through Population Genetics
- 34 **Horns, Joshua**
Geolocator tracking of great reed warbler (*Acrocephalus arundinaceus*) identifies key regions of importance to migratory wetland specialist throughout the Middle East and Sub-Saharan Africa
- 35 **Knox, Sean**
Waterfowl Migration Chronology and Associated Wetland Food Production at Great Swamp National Wildlife Refuge
- 36 **LePage, Heather**
Light-level geolocator data from a Mongolian population of Northern Wheatear (*Oenanthe oenanthe*) reveals further evidence of migratory connectivity
- 37 **Phillips, Laura**
Critical Connections: Conserving Migratory Birds in Alaska's Parklands
- 38 **Smith, Robert**
Factors influencing spring migratory phenology in Common Yellowthroats (*Geothlypis trichas*) at a northerly stopover/breeding location
- 39 **Lugo, Alicia**
Habitat occupancy by the American kestrels (*Falco sparverius*) at the Mexican highland plateau: effects of vegetation structure, prey abundance, and landscape composition
- 40 **Ortiz, Antonio**
Factors influencing habitat occupancy by the Golden Eagle (*Aquila chrysaetos*) in the Mexican high plateau region.
- 41 **Carmona, Eliphaeth**
Effect of mesquite removal on grassland birds at Grassland Priority Conservation Area Janos.
- 42 **Loman, Zachary**
Evaluation of a fine-grained landscape conservation planning tool for songbird conservation in the Northeastern United States.
- 43 **Voltura, Elise**
Red-crowned Parrot (*Amazona viridigenalis*) ecological niche model in the Lower Rio Grande Valley, Texas using aerial imagery for conservation planning in an urban landscape.
- 44 **Hallman, Tyler**
Comparing models of avian abundance from citizen science and professional survey datasets
- 45 **Gruppenhoff, Ashley**
Reproductive success of a neotropical migratory bird in response to a changing climate
- 46 **Howard, Jennifer**
Species-specific effects of the 2015-16 El Niño event on seabirds breeding at Isla Española, Galápagos
- 47 **Newcomb, Kira**
Climate Change Impacts and Productivity in Hummingbirds
- 48 **Jaffe, Nicolas**
Avian Response to Extreme Weather Events: A Case Study using MAPS data
- 49 **Musgrave, Maria**
Hatch Date Timing in Response to Temperature in Two Secondary-cavity Nesting Birds
- 51 **Joos, Cara**
Using occupancy and natural population models to target regional grassland bird conservation.
- 52 **Grady, Kathleen**
Evaluation and Guidance for Riparian Restoration in Coastal California Using Birds as Indicators of Restoration Success
- 53 **Merkord, Christopher**
Cattle Grazing and Grassland Birds in the Northern Tallgrass Prairie
- 54 **Rivers, Jim**
Evaluating Space Use and Reproductive Success of the Threatened Marbled Murrelet in Western Oregon
- 55 **Cline, Brittany**
Tidal marsh birds as indicators of human disturbance: Constructing multimetric indices (MMIs) that integrate avifaunal response with wetland vegetation and geomorphic monitoring variables to assess the ecological condition of tidal marshes and their specialist bird communities
- 56 **St-Amand, Julien**
Endangered Williamson's Sapsuckers prefer large live Douglas-firs for foraging in montane forests in Canada
- 57 **Arengo, Felicity**
Flamingo die-off in the Andes: did a shifting mosaic of wetlands reach a tipping point?
- 58 **Omland, Kevin**
Conservation Biology of the Critically Endangered Bahama Oriole: Estimating Current Population Size and Evaluating Threats
- 59 **Ruvalcaba-Ortega, Irene**
Home range analysis of *Ammodramus* sparrows wintering on the Chihuahuan Desert of Mexico
- 60 **Dvorak, Tyler**
Pairing Bioacoustics with Traditional Avian Survey Methods to Assess the Status and Breeding Habitats of an Endemic Vireo
- 61 **Sanghera, Nuvraj**
The restoration of small coastal islands for waterbirds: Audubon California's Aramburu Island Enhancement Project
- 62 **Shedd, Douglas**
Post-fledging population numbers and habitat use in the Chough (*Pyrrhocorax pyrrhocorax*) on Valentia Island, County Kerry, Ireland
- 63 **Shirkey, Brendan**
Population monitoring, ecology, and habitat relationships of sora and Virginia rails in northwestern Ohio
- 64 **Trail, Pepper**
Dying for Love: Illegal International Trade in Hummingbird 'Chuparosa' Love Charms
- 65 **Hager, Stephen**
Urbanization shapes the effect of building size on bird-window collisions
- 66 **Irizarry, Amariys**
Avian response to shade-layer restoration in coffee plantations in Puerto Rico

POSTER PRESENTATIONS *Poster presentations begin at 5:00 pm

- 67 **Kroner, Andria**
Life History and Demography of the Mariana Crow (*Corvus kubaryi*)—Implications for Conservation
- 68 **Wilson, Maya**
Population biology, life history, ecology, and conservation of the endangered Bahama Swallow (*Tachycineta cyaneoviridis*)
- 69 **Armstrong, Ellie**
Avian Knowledge Northwest and eBird Northwest: engaging professionals and the public in data collection, citizen science, storage, and analyses
- 70 **Kim, Mi Ae**
NOAA Fisheries' National Seabird Program: Science and Management to Support Seabirds
- 71 **Dufour-Pelletier, Samuel**
Compensatory measures for wildlife conservation: testing the effect of deadwood and cavity supply on cavity users in managed boreal forest
- 72 **Lepczyk, Christopher**
History of Vehicle Collisions on the Endangered Nene (*Branta sandvicensis*)
- 73 **Lozon, Darien**
The influence of habitat and landscape associations on breeding birds in managed grasslands of Southwest Michigan
- 74 **Maenza-Gmelch, Terryanne**
Hudson Highlands West Important Bird Area: Harriman and Sterling to Black Rock and Storm King, New York
- 75 **Panjabi, Arvind**
Conservation across a managed landscape: a full-annual-cycle approach to examining grassland bird communities in North America
- 76 **Percy, Katie**
Least Tern and Wilson's Plover Nesting Success in a Coastal Land Loss Crisis
- 77 **Spiegel, Caleb**
The Atlantic Marine Bird Cooperative: Facilitating over 10 years of collaboration to understand and conserve marine birds in the northwest Atlantic
- 78 **Vitz, Andrew**
A Strategy for Grassland Bird Conservation in Massachusetts
- 79 **Volpe, Noelia**
First steps towards reintroducing the Green and Red Macaw (*Ara chloropterus*) to Argentina
- 80 **Woodward, Hope**
Wild Horse and Burros on National Forest System Lands: Impacts and Opportunities for Management and Research
- 81 **Bracey, Annie**
Conservation and Management of Common Terns (*Sterna hirundo*) in the North American Great Lakes
- 82 **Fernandez, Christopher**
Conservation action implementation, funding, and population trends of birds listed on the Endangered Species Act
- 83 **Hartley, Mitch**
The importance of the US Fish and Wildlife Service's wetland habitat grant programs for migratory bird conservation in North America
- 84 **Evans, Dean**
Chimney Swift Communal Roosting Varies with Atmospheric Conditions and Season
- 85 **Fantle-Lepczyk, Jean**
Identifying key demographic attributes for recovery of the endangered Nightingale reed-warbler via population viability analysis
- 86 **Roels, Steven**
Recovery of Bird Diversity and Activity in a Tropical Forest Restoration
- 87 **Bennett, Kevin**
Impacts of free-ranging domestic cat abundance on avian survival and breeding success
- 88 **Jacks, Lindsay**
Lights Out Baltimore: The Impacts of Buildings on Birds
- 89 **Roberts, Ashton**
Use of Drones to Collect Nocturnal Illumination for Bird-Window Collision Studies
- 90 **Bomberger Brown, Mary**
Flight initiation distances of nesting Piping Plovers (*Charadrius melodus*) in response to human disturbance
- 91 **Settlecowski, Amie**
Influence of landscape-change on genetic structure in Bachman's Sparrow, an ephemeral habitat specialist
- 92 **Shriver, Greg**
Optimizing tidal marsh bird monitoring in the Northeastern, USA.
- 94 **Erickson, Richard**
On the edge of extinction: Can the Tricolored Blackbird (*Agelaius tricolor*) persist in Mexico?
- 95 **Snider, Allison**
Six years after Deepwater Horizon: Diet analysis of the Seaside Sparrow (*Ammodramus maritimus*) using DNA barcoding
- 96 **Anholt, Allison**
Avian Use of a salt marsh island following a trial beneficial reuse of dredged material project
- 97 **Byerly, Paige**
The Effectiveness of Barrier Island Saltmarsh Restoration in Creating Avian Habitat
- 98 **Vierling, Kerri**
The role of vegetation structure and canopy composition on Red-naped Sapsucker occupancy across an aspen-conifer gradient
- 99 **Rosenblatt, Connor**
Field type influences distribution of wintering birds in the Northeast
- 100 **Fierro, Karolina**
Cumulative probability of nest survival explains territory use in orange-crowned warblers (*oreothlypis celata*), Arizona.
- 101 **Bryant, Lee**
Is Louisiana Waterthrush habitat selection and fitness related to Eastern Hemlock decline in Great Smoky Mountains National Park?
- 102 **Purcell, Kathryn**
White-headed Woodpecker Habitat Selection in the Southern Sierra Nevada, CA
- 103 **Elmore, Jared**
Avian community structure as a bio-indicator of habitat disturbances in wetland areas
- 104 **Margenau, Eric**
Avian community shift in a reclaimed mine landscape in southern West Virginia
- 107 **Jensen, William**
Distribution of migrating marsh birds within and among moist-soil managed wetlands in Kansas
- 108 **Pontius, Michael**
Determining the effects of anthropogenic noise on avian abundance and productivity at the landscape scale
- 109 **Ehnes, Mandy**
Filling the gap: Emerald ash borer canopy damage affects avian community composition in urban woodlots
- 112 **Dunham, Stephen**
Female Spruce Grouse Habitat Selection during the Brood-Rearing Season in Managed Conifer Forests
- 114 **Reitsma, Leonard**
Using population and habitat analyses at three spatial scales to address New Hampshire statewide declines in Canada Warblers (*Cardellina canadensis*)
- 116 **Vazquez-Reyes, Leopoldo**
Eroding the differences: Human perturbation promotes biotic homogenization in resident bird communities of Neotropical Dry Forest

POSTER PRESENTATIONS *Poster presentations begin at 5:00 pm

- 119 **Igl, Lawrence**
The infusion of information from the literature to improve and support management decisions that affect grassland birds.
- 120 **Bakermans, Marja**
Breeding bird communities in sites created by Natural Resources Conservation Service (NRCS) conservation practices targeted for Golden-winged Warbler
- 121 **Farthing, Trevor**
Coastal Bermudagrass Suppression in Texas Grasslands for Native Bird Habitat Restoration
- 122 **Guilfoyle, Michael**
Ashtabula Harbor Breakwater Restoration: An Approach for Creating and Attracting the State-listed Common Tern (*Sterna hirundo*) to New Nesting Habitat
- 123 **Khan, Bushra**
Management of threats faced by avian fauna at Mangla Dam: A neglected wetland for migratory birds
- 124 **Latif, Quresh**
Decision support framework to inform fire and land management planning with woodpecker habitat dynamics
- 125 **Brautigam, Kathryn**
Habitat Use and Distribution of Sandhill Crane (*Grus canadensis*) on The Southern High Plains of Texas And New Mexico
- 126 **McClure, Christopher**
The power and peril of nest boxes for managing and monitoring birds
- 127 **Griffin, Meta**
An Evaluation of Early Successional Habitat Management for Breeding Bird Communities at Great Swamp National Wildlife Refuge
- 128 **Halkin, Sylvia**
Using Ornithology Class Census Data to Track Avian Use of a Suburban Park Facing Development Pressures
- 129 **Fornari, Ella**
Teaching Evolution with a Museum Zoology Collection: The Moore Laboratory of Zoology Online Woodpecker Module
- 130 **Carr, Jennie**
Makengue Reserve, Nicaragua: education and outreach opportunities for bird diversity, behavior and evolution
- 131 **Heath, Joel**
People of a Feather - A feature documentary about a unique Inuit community the eider ducks they rely on for subsistence
- 132 **van Vliet, Heidi**
Declines in Butterflies and Insectivorous Birds in Areas of High Pesticide Use in California's Central Valley
- 133 **Houtz, Jennifer**
Evaluating the Influence of Forest Herbicides on Offspring Sex Ratio in an Early-Successional Forest Songbird
- 134 **Vyas, Nimish**
Rodenticide hazards to non-raptor species
- 136 **Newberry, Gretchen**
Common Nighthawk nesting ecology in an agriculturally dominated landscape and susceptibility to land-use change
- 137 **Taylor, Capwell**
Color Association in Mercury-dosed Zebra Finches
- 138 **Cristol, Daniel**
A test of the early stress hypothesis using mercury exposure and spatial memory in Zebra Finches
- 139 **Paris, Ohad**
The Effect of timing of mercury exposure during development on breeding in adult zebra finches
- 140 **Perkins, Marie**
Using dried blood spots to assess mercury exposure in birds
- 141 **Morrissey, Christy**
Population structure of Sanderling (*Calidris alba*) at a major stopover site in Chaplin Lake, Saskatchewan to determine pollutant threats
- 142 **Ramsden, Danielle**
Mercury and Molt: no strong Hg trend across songbird primary feathers
- 143 **Botero, Juan**
The Role of Mercury in Oxidative Stress: an Analysis Using Exercised Zebra Finches
- 144 **Bohannon, Meredith**
Long-term ecosystem health monitoring using avian indicators: Implications of experimental design
- 145 **Low, Katie**
Using feathers to monitor mercury: weak correlations to internal tissues suggest limitations
- 146 **Hathcock, Charles**
Chemicals in Eggs of Cavity-Nesting Passerine Species at and around Los Alamos National Laboratory Lands
- 147 **Sauer, Amy**
Monitoring Spatial Gradients and Temporal Trends of Mercury in Songbirds of New York State
- 148 **Dertien, Jeremy**
Camera Trap Sampling and Lagopus spp. Habitat Use
- 149 **Rozek, Jessica**
No evidence of critical slowing down in two endangered Hawaiian honeycreepers
- 151 **Marban, Paul**
Initial testing of a minimally invasive surveillance system used to monitor a Maryland state endangered species, the common tern (*Sterna hirundo*)
- 152 **Byrd, Allison**
Restore the Call: Multiregional Translocation of Common Loon (*Gavia immer*) Chicks
- 153 **Gilbert, Andrew**
A Mobile Avian Survey Data Collection Software Application (SeaScribe)
- 154 **Mojica, Elizabeth**
Crippling and Nocturnal Biases in a Study of Sandhill Crane (*Grus canadensis*) Collisions with a Transmission Line
- 155 **Robinson Willmott, Julia**
Surveying the Seabirds of Ka'ula Island, Hawai'i, using High Resolution Digital Aerial Oblique Imagery
- 156 **Dykema, Zachary**
Sex-Ratio Bias of Northern Saw-whet Owl (*Aegolius acadicus*) Spring Captures at Whitefish Point Bird Observatory
- 157 **Rumelt, Reid**
Mining Metadata: Digital Media Collections as Sources of Biological Knowledge
- 158 **Dale, Katherine**
Using thermal infrared cameras to detect avian chicks at various distances and vegetative coverages: A pre-field assessment
- 159 **Dudley, Steve**
How social are ornithologists?
- 160 **Vizi, Andrej**
International Waterbird Census on Skadar Lake, Montenegro
- 161 **Friar, Margaret S**
Roof-top Nesting in a Declining Population of Herring Gulls (*Larus argentatus*) in Portland, Maine, USA
- 162 **Morgan, Kate**
Feasibility of Three Types of Nesting Platforms for the Great Blue Heron (*Ardea herodias*) in North Central Georgia
- 163 **Bowerman, William**
What 55 Years of Bald Eagle Population Data Tells Us About Environmental Changes
- 165 **Burns, Christian**
Estimating Habitat Suitability and Breeding Success of a Migrant Songbird in New Hampshire
- 166 **Matseur, Elizabeth**
Black-backed Woodpecker Abundance (*Picoides arcticus*) in the Black Hills of South Dakota and Wyoming

POSTER PRESENTATIONS *Poster presentations begin at 5:00 pm

- 168 **Shirkey, Brendan**
King Rail Trapping and Detection in northwest Ohio, USA
- 171 **Stantial, Michelle**
Understanding Spatial and Temporal Distribution of Red Foxes (*Vulpes vulpes*) in Piping Plover Nesting Habitat in Southern New Jersey
- 172 **Moen, Noelle**
Long term assessment of livestock removal on avian and vegetation communities of riparian habitats in a Great Basin wildlife refuge
- 173 **Higgins, Conor**
Local scale vegetation change effects on forest bird dynamics in Mid-Atlantic National Parks
- 174 **Matthews, Anna**
Response of central Texas grassland birds to varying agriculture effort at a county level from 2013 to 2015
- 175 **Nielson, Patrice**
Presence and Habitat Use of Secretive Marshbirds in Urban Marshes of the Washington, DC Metro Area
- 176 **Herbert, John**
Abundance and Distribution of Non-breeding Mallards in the Lower Mississippi Alluvial Valley
- 177 **McCollum, Kathryn**
Occupancy Analysis and Density Estimation of Kori Bustards (*Ardeotis kori*) and Helmeted Guineafowl (*Numida meleagris*) for Use in Landscape Conservation Planning in the Northern Tuli Game Reserve, Botswana
- 179 **McKellar, Ann**
Power analysis of shorebird survey data from Chaplin and Reed Lakes, Saskatchewan
- 180 **Patterson, Emily**
Fire Ecology and Birds: Biodiversity of Bird Species in the St. Olaf College Natural Lands
- 181 **Kratter, Andrew**
The 2012-13 irruption of Razorbills into Florida
- 182 **Goyert, Holly**
Density-dependence and changes in carrying capacity in Alaskan seabird populations
- 183 **Wargo, Brian**
Using Inscriptions to Bridge Birders and Scientists: A Detailed Analysis of Two Competing Methodologies to Delineate Raptor Populations In the Eastern Flyway
- 185 **Berigan, Liam**
Citizen science provides insights into the decline of House Sparrows in North America
- 186 **Marvel, Keeli**
20-year Trends for Riparian Birds in Utah
- 187 **Robertson, Greg**
Density surface modelling of seabirds in the Labrador Sea
- 188 **Stanton, Jessica**
Adding uncertainty to North American landbird population size estimates
- 189 **Owen, Joel**
Modeling Parrot Nest-Site Selection
- 190 **Brauch, Jessica**
Evaluation of Population Monitoring Strategies for Greater Sage-Grouse (*Centrocercus urophasianus*) in Northwestern Colorado: Genetic Mark-Recapture as an Alternative to Traditional Lek Counts
- 191 **Brouwer, Nathan**
Insights into full-annual cycle population modeling using the Louisiana waterthrush
- 193 **Keenan, Patrick**
Correlations Between Total Mercury (Hg) measured in whole blood (WB) and packed cell volume (PCV) in passerines with a focus on Northern Waterthrushes (*Parkesia noveboracensis*)
- 194 **Cutshaw, Larynn**
The effect of capture method on microbial abundance in plumage of Eastern Yellow Robins (*Eopsaltria australis*)
- 195 **Burnett, Jessica**
Detecting broad-scale regime shifts using the North American Breeding Bird Survey
- 196 **Correll, Maureen**
Fine-scale mapping of coastal plant communities: a step towards conservation of salt-marsh obligate birds
- 197 **Lorenz, Teresa**
Ultra-lightweight (400 g), Lithium Polymer Batteries for Avian Research
- 198 **Rutter, Jordan**
"Man's Best Friend": A Threat To Shorebirds?
- 199 **Ryon, Thomas**
Building Design for Energy Efficiency and the Potential Benefit to Birds
- 200 **Bernick, Andy**
Marine and hydrokinetic energy development and potential impacts to diving birds: a regulatory perspective
- 201 **Williams, Justin**
Using field environmental philosophy to bring ornithology, ethics, and conservation together
- 202 **Lacy, Anne**
Assessment of the Impact to Cranes from a Newly Constructed Transmission Line
- 203 **Sullivan, Kimberly**
Why are there so many women graduate students and so few women professionals in ornithology?
- 204 **Contreras Cuevas, Gustavo**
Birds of theTejar-Garnica City Park Complex And The Role Of eBird and gray literature in understanding Avifaunulas
- 205 **Cuevas, Jesus**
Bird diversity conservation in riparian urban parks at the Lake Chapala, Western Mexico.
- 206 **Brooks, Daniel**
Ecology, Behavior, and Reproduction of Invasive Egyptian Geese (*Alopochen aegyptiaca*) in Texas
- 207 **Newberry, Nicholas**
The Economic Role of Birds in Final Housing Sale Prices in a Suburban Environment
- 208 **Sousa, Bridget**
The Incredibly Adaptable Urban Junco: Dark-Eyed Junco Nesting Activity Within Active Construction Projects in Silicon Valley
- 209 **Fishel, Eric**
Breeding bird and plant associations with urban residential land management practices in Columbia, Missouri
- 210 **Whatton, Megan**
Habitat Network: Re-imagining and Transforming America's Yards
- 211 **Grabarczyk, Erin**
What drives altered signaling in noise? A study of male House wren (*Troglodytes aedon*) note use and song composition across a noise gradient
- 212 **Hannam, Kristina**
With multiple ways to respond to masking anthropogenic noise, is a species' characteristic response similar across populations? An examination of Song Sparrows, American Robins and Red-winged Blackbirds.
- 213 **Contina, Andrea**
Using Next-Generation Radar technology to study avian migration in relation to light pollution

THURSDAY Session A (10:30 am–12:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	Surviving the heat: integrating physiology, behavior, and morphology to predict population responses to climate change	Understanding and engaging America's birdwatchers: What is the path to conservation action?	Avian indicators: What can birds tell us about ecosystem health and environmental change?	Conservation of Caribbean Forest Endemic Birds — Bringing Science and Conservation Together	Cooper Ornithological Society Young Professional Award Session	Life Histories	Behavior
Mod	Wolf & McKechnie	Rich & Kaufman	Gurney & Ross	Nelson & Douglas	Johnson, Matt	Garcia, Victoria	Walters, Eric
10:30	INTRODUCTION	Rich, Terrell Meeting bird conservation needs through better public policy in the United States	Soos, Catherine Do feathers of arctic nesting species track changes in a rapidly changing environment?	Nelson, Howard Red List status of forest endemic birds in the Caribbean	Baldassarre, Daniel Connecting pattern and process in the study of avian speciation	LaBarbera, Katie Fieldwork and computer simulation reveal cryptic life history variation along an elevation gradient in the Dark-eyed Junco in California	Fogarty, Dillon Impacts of olfactory predator communities on nest-site selection and nest success of a ground nesting bird
10:45	Danner, Ray Heat limits behavioral performance	Dietsch, Alia The role of societal values in shaping conservation-related attitudes and behaviors	Evers, David Developing a Global Mercury Monitoring Plan for Birds: Contributions to the Minamata Convention on Mercury	Mortensen, Jennifer Clear differentiation between island races of the White-breasted Thrasher (<i>Ramphocinculus brachyurus</i>), an endangered Antillean passerine		Tavera, Eveling Effects of migration distance on life history strategies of Western and Semipalmated Sandpipers in Perú	Kelly, Janice Filling in the gaps of conspecific cue use for habitat selection: experiments with the Yellow Warbler (<i>Setophaga petechia</i>).
11:00	Rat, Margaux The impact of elevated temperatures on social networks of a communal passerine, the Sociable Weaver <i>Philetairus socius</i>	Scott, David Understanding Conservation Activities among Birdwatchers Using the Recreational Specialization Framework	Villard, Marc-André What do birds indicate about landscape change resulting from intensive forest management?	Rivera-Milán, Frank Population Assessment of the Grenada Dove (<i>Leptotila wellsi</i>) and Hook-Billed Kite (<i>Chondrohierax uncinatus mirus</i>) using Distance Sampling and Repeated Count Methods		Tompkins, Emily Male and female genetic and non-genetic effects on breeding phenotypes in the Nazca booby (<i>Sula granti</i>)	Bailey, Jacob Using Radio Frequency Identification (RFID) Technology To Investigate Gap Crossing Decisions in Chickadees
11:15	Cunningham, Susan Fitness costs of behavioral thermoregulation and threshold temperatures revealed by behavioral data sets	Dayer, Ashley The Surveys Say Birdwatchers are Conservationists	Coates, Peter Wildfire, Wildlife, and the Wild West—Fire, Climate, and Invasive Grass Impact an Indicator Species by Reshaping Sagebrush Ecosystems	Rimmer, Christopher Hispaniolan Forest Endemics — Rare, Vulnerable and Understudied	Hosner, Peter Avian diversification in the Philippine archipelago	Oteyza, Juan Adult survival probability explains parental risk-taking behavior in tropical and temperate songbirds.	Halley, Matthew Multi-generational kinship, multiple mating, and flexible modes of parental care in a breeding population of the Veery (<i>Catharus fuscescens</i>), a trans-hemispheric migratory songbird
11:30	Thompson, Michelle Can heat dissipation behaviour be used as an indicator of underlying physiological stress?	Fenwick, George Do Birders Give Back? (or, Honestly, I'd rather just take a bird walk)	Ross, Megan Phenological mismatch and density-dependent nutrition: explaining decadal declines in gosling production by Ross's and lesser snow geese in Canada's central arctic	Haakonsson, Jane Conservation Status of Grand Cayman and Cayman Brac Parrots		English, Philina Of moths and moon: interannual variation in vital rates a nocturnal aerial insectivore	Fischer, Jason Foraging effort of adults varies with nestling age for an insectivorous songbird
11:45	Tattersall, Glenn Bills as radiators of body heat	Miller, Holly Views on conservation engagement among dedicated birders: Findings from workshops informing the North American Waterfowl Management Plan	Gurney, Kirsty Phenology of breeding in arctic shorebirds – can they keep up with climate change?	Goetz, James A decade of advances in Black-capped Petrel (<i>Pterodroma hasitata</i>) Research and Conservation		Garcia, Victoria Reproductive senescence in three cooperatively breeding species	Latimer, Christopher Behavioral plasticity of winter bird foraging across a gradient of habitat fragmentation

12:00–1:30pm Lunch Break, on your own.

THURSDAY Session A (10:30 am–12:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 8 Georgetown West	Room 9 Georgetown East	Room 10 Gunston East	Room 11 Gunston West	Room 12 Cardozo	Room 13 Fairchild East/West	Room 14 Cabinet
	Drones & Emerging Tools	General Ecology	Conservation	Habitat Relationships	Movements & Dispersal	Population Biology	Morphology, Physiology & Molt
Mod	Bird, David	Clark, Anne	Alexander, John	Rohrbaugh, Ron	Valente, Jonathon	Studds, Colin	James, Helen
10:30	Eberts, Erich Predator (Corvus brachyrhynchos) Electrical Shock Aversion System for Endangered California Least Terns (Sternula antillarum browni)	Bennett, Ruth Sexual segregation in overwintering Golden-winged Warblers (Vermivora chrysoptera) at multiple spatial scales.	Koper, Nicola Effects of oil infrastructure and noise on grassland songbirds in Alberta, Canada	Lenske, Ariel Using automated radio telemetry to link food availability, reproductive success, and habitat use of Barn Swallows	Rousseau, Josee Large scale migration patterns of Rufous Hummingbirds	Wang, Silu The footprints of a moving Setophaga warbler hybrid zone: an analysis of plumage and behavior over space and time	Windsor, Rebecca Consistency of Structural Color Across Molts: The Effects of Environmental Conditions and Stress on Feather Ultraviolet Reflectance
10:45	Mackenzie, Stuart A Cooperative Approach to Automated Radio Telemetry - The Motus Wildlife Tracking System	Burke, Tianna Bank Swallow (Riparia riparia) health and productivity: could aggregate pits be key in species recovery?	Crisol, Eduardo Birds help agriculture... and vice versa? Lessons learnt from macadamia production areas in eastern Australia	Serno, Kimberly The effects of roads on bird community composition in Pennsylvania's core forest	Robinson, Samantha Come rain or no water, I will survive: nonbreeding lesser prairie-chicken survival and space use	Hardy, Michael The Effects of Simulated Translocations on the Population Viability of Greater Prairie-Chickens in Central Wisconsin, USA	Miller, Colleen Northern Cardinal bill morphology variation modeled spatially and temporally in a climatic context
11:00	Newman, Christian Digital Aerial Surveys: Employing Ecological First Principles to Monitor Offshore Bird Populations	Munoz, Jenny The role of facilitation in the structure of tropical bird communities: a case study of mixed-species flocks	Koczek, Alison Nest fates influence re-nesting characteristics in a tidal marsh sparrow	Hunt, Kelsi Let the good times roll: piping plover (Charadrius melodus) demographic response to historic flooding on the Missouri River	Brightsmith, Donald The scales of Amazon conservation: Lessons from macaw movements in Southeastern Peru	Verheijen, Bram Effects of habitat heterogeneity on movements and survival of fledgling Dickcissels	Terrill, Ryan The influence of coloration and life-history in the evolution of prealternate molt in Parulidae
11:15	Korczak-Abshire, Maigorzata Using Unmanned Aerial Vehicles to monitor avian indicator species in Antarctica	Hadley, Adam Old growth forest at the landscape scale mitigates local species loss, community shifts and biotic homogenization of a Neotropical forest bird community	Lee, Myung-Bok Factors affecting avian diversity and species abundance in tropical agricultural landscapes: importance of crop heterogeneity and type	Laughlin, Caitlin Avian Responses to Understory Fire Frequency in Oak Woodland	Pegan, Teresa Unexpected post-fledging site visitation in Tree Swallows: new insights in a well-studied system	Bell, Christopher Testing the effect of increasing predator abundance on prey populations using census data	Sly, Nicholas Independent evolution among the modular subcomponents of avian plumage
11:30	Wilson, Andy The feasibility of using drones to count songbirds	Chin, Sean Investigating the effects of urban features on bird window collisions	Mendia, Shannon Trade-offs in ecosystem services: damage from black bears in a Douglas fir forest increases forest structural complexity and improves habitat for cavity-nesting birds	Youngberg, Erin Sylvatic plague in black-tailed prairie dogs and the effects on density and trends of grassland birds in the Mountains to Plains area of northern Colorado	Muzaffar, Sabir Foraging and Diving Ecology of the Socotra Cormorant in the eastern Arabian Gulf: conservation implications.	Dugger, Katie Age-specific survival of Adélie penguins in relation to colony size, reproductive status, and environmental variation	Fernandez-Juricic, Esteban The visual system of the hawk-eyed songbird, the Tree Swallow
11:45	Bird, David Can Drones Help Our Birds?	Clark, Anne Wintering American Crows Produce "Hot Moments" of Nitrogen in the Urban Ecosystem	Alexander, John Forest Landbirds as a Multi-species Surrogate for Measuring Ecological Conditions along a Spotted Owl Habitat Suitability Gradient	Rohrbaugh, Ron The Role of Hybridization in Shaping Habitat Selection Patterns and Population Dynamics in Golden-winged Warblers	Valente, Jonathon Evaluating the relationship between breeding bird distributions and functional connectivity in fragmented forest landscapes	Studds, Colin Reliance on the Yellow Sea predicts population collapse in a migratory flyway	James, Helen The evolutionary relationships and locomotory mode of the "mole-duck," Talpanas lippa, of Kauai

12:00-1:30pm Lunch Break, on your own.

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	Surviving the heat: integrating physiology, behavior, and morphology to predict population responses to climate change	Understanding and engaging America's birdwatchers: What is the path to conservation action?	Full annual cycle population ecology	Synthesizing science to inform conservation of songbird migrants around the Gulf of Mexico	Mitochondrial discordance, barcode gaps, and the nature of avian species	Separating birds and aircraft: uniting science and conservation for safer skies	Bird Ecosystem Services: New Approaches and Future Directions
Mod	Wolf & McKechnie	Rich & Kaufman	Woodworth & Norris	Cohen & Buler	Hill	Dolbeer	Whelan & Tomback
1:30	Luther, David Males with larger bills sing at higher rates in a hot and dry environment	Hagner, Charles What birders want: Editing a magazine about birds for backyard birdwatchers, listers, and ornithologists	Hostetler, Jeffrey The population consequences of migratory connectivity	Moore, Frank A Place to Land: Stopover Ecology and Conservation of Migratory Songbirds	Zink, Robert The nature of the speciation process in birds	Begier, Michael History of bird-aircraft collisions and the role of Bird Strike Committee-USA within the International Civil Aviation Organization	Sekercioglu, Cagan Why Birds Matter: Avian Ecological Function and Ecosystem Services
1:45	Gardner, Janet Temporal changes in avian body size over the last 50 years are associated with heat dissipation in Australian passerines	Sanchez, Constance Engaging Birders and Local Communities in the Conservation and Stewardship of the U.S. Important Bird Areas Network	Sedinger, James Cross-seasonal demographic effects and fitness in Black Brant			Dolbeer, Richard The National Wildlife Strike Database: a scientific foundation for basic and applied ornithology related to birds and aviation safety	McLane, Adam Agent-based modeling of Clark's Nutcracker foraging behavior to determine thresholds for whitebark pine restoration
2:00	Wolf, Blair Physiological challenges for desert bird communities in a rapidly warming world	Cooper, Caren Managing birdwatchers as a citizen science resource for avian research and conservation	Woodworth, Brad A year-round population model reveals that winter temperatures limit population growth rate of a migratory songbird	Buler, Jeffrey Where and for how long do migrating landbirds stopover along the northern Gulf of Mexico? A radar perspective	Kerr, Kevin Variation in mitochondrial genes in relation to species boundaries	Dove, Carla The science and art of identifying bird remains: an essential component of bird-aircraft hazard mitigation efforts and a potential data source for ornithologists	
2:15	Gerson, Alexander Differential use of hyperthermia as a thermoregulatory strategy in birds exposed to high temperature.	Kaufman, Kenn The birds and the bucks: Using birder economics to build support for regional conservation efforts	Boyle, Alice Climatic drivers of tropical avian demography in very wet environments: a case history from a population of Central American White-ruffed Manakins (<i>Corapipo altera</i>)			Demers, Chris Aircraft Turboprop Engine Standards for Bird Strikes: Progress and Challenges	Pansing, Elizabeth Efficacy of Clark's nutcracker dispersal varies with community type and geographic region
2:30	Oswald, Krista Threats of climate change to a Fynbos-endemic bird: physiological responses show low heat tolerance thresholds irrespective of season in the Cape rockjumper (<i>Chaetops frenatus</i>)	Duberstein, Jennie Alone we can do so little; together we can do so much: Birders, conservationists, hunters, and a new paradigm for wetland and waterfowl conservation	Kus, Barbara Connecting Breeding and Wintering Populations of the Endangered Least Bell's Vireo	Farnsworth, Andrew Passage of migrating landbirds through the gulf coast region: traffic rate, direction, speed, and altitude of flight.	Carling, Matt Discordance of autosomal, sex-linked and mitochondrial genes	Brammell, Sarah Techniques used in bird hazard management programs at airports: passive, active, administrative	Kross, Sara Vertebrate pest control services from raptors
2:45	McKechnie, Andrew Phylogenetic variation in heat tolerance and evaporative cooling capacity among Kalahari Desert birds	Rowden, John Planting hope: Restoring the ecological function of our communities and supporting bird conservation by landscaping with native plants	Wunder, Mike Integration by parts: toward the estimation of spatially explicit population processes in Mountain Plovers	Fink, Daniel Identifying passage locations and habitat preferences of trans-Gulf migrants using broad-scale stopover observations		King, Ryan Advances and challenges in the use of avian radar to reduce bird strikes	Wood, Eric Extreme variations in spring temperature affect ecosystem regulating services provided by birds during migration

3:00–3:30pm Refreshment Break, Columbia Ballroom.

THURSDAY Session B (1:30 pm–3:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 8 Georgetown West	Room 9 Georgetown East	Room 10 Gunston East	Room 11 Gunston West	Room 12 Cardozo	Room 13 Fairchild East/West	Room 14 Cabinet
	Sexual Selection	Community Ecology	Conservation	Habitat Relationships	Phylogenetics	Population Biology	Evolution & Genomics
Mod	Derryberry, Elizabeth	Sofaer, Helen	Ribic, Christine	Bomberger Brown, Mary	McCormack, John	Dinsmore, Stephen	Safran, Rebecca
1:30	Harris, Grady Social and display behavior of the Golden-winged Manakin <i>Mniotilta chrysotus</i> and its implications for the evolution of cooperative courtship display in manakins (family Pipridae)	Barenblitt, Abigail Influence of forest stand complexity on forest songbird diversity within large tracts of forest in Pennsylvania	Tremblay, Junior A. Simulating spatio-temporal dynamics of boreal bird habitats under natural and anthropogenic disturbances in a climate-change context	Sanders, Lindsey Is a mesopredator release underlying increased songbird nest predation near natural gas development?	Oswald, Jessica Willet be one species or two?: A genomic view of the evolutionary history of <i>Tringa semipalmata</i>	LaManna, Joseph Costs of fear: Behavioral and life-history responses to risk and their demographic consequences vary across species	Safran, Rebecca Divergent phenotypes and their influence on genome-wide divergence in barn swallows.
1:45	Lipshutz, Sara Differential aggression between hybridizing, sex-role reversed species	Garey, Laura Little birds, big impacts: investigating the ecological consequences of tidal-marsh sparrow extirpation from local food webs	Strum, Khara Population and habitat objectives for breeding shorebirds in California's central valley	Slevin, Morgan Prothonotary Warbler nest selection, survival and demographic rates in east-central Arkansas	Taylor, Rebecca Allochrony and speciation in the band-rumped storm-petrel (<i>Hydrobates spp.</i>) species complex	Katzner, Todd Environmental correlates of breeding success of a long-distance migrant small falcon	Enbody, Erik Structural mechanisms of plumage ornament production between sexes and across sister species of tropical passerine birds
2:00	Randall, Jeannine Does blue-green eggshell color influence provisioning strategies of male mountain bluebirds (<i>Sialia currucoides</i>)?	Palacio, Ruben Dario San Antonio 100 years later: Bird Extinctions and Climate Change	Roberts, Samuel Estimating the persistence of Seaside and Saltmarsh Sparrow populations in Forsythe National Wildlife Refuge, New Jersey	Sesser, Kristin Can we reduce greenhouse gas emissions from rice and still maintain waterbird habitat?	Selvatti, Alexandre Out of Africa: An African origin of the Old World Suboscines (Passeriformes: Eurylaimides) and the successful diversification of the ground-foraging pittas (Pittidae)	Rotenberg, James Coastal Areas are a Population Source for eastern Painted Bunting	Seeholzer, Glenn Complex patterns of population divergence underlying dramatic phenotypic cline in an Andean songbird
2:15	Bolen, Donella Social influences on variation of female mating preferences in the American Goldfinch (<i>Spinus tristis</i>)	Carlisle, Jason How the West was one, or was it? Multi-species conservation under the sage-grouse umbrella	Hewett Ragheb, Erin Identification and exclusion of nest predators of Florida dry prairie birds using video surveillance and predator deflection fencing	Gawlik, Dale Foraging habitat of wading birds in an intertidal zone: are freshwater models applicable?	Wang, Ning Phylogenomics and mitogenomics place enigmatic phasianids (Aves: Galliformes)	Franks, Samantha Timing is everything: The sensitivity of 21 breeding bird species to changing seasonal timing is linked to population change over three decades	Oh, Kevin Genomic insights into neutral and adaptive variation in sage-grouse: implications for ecology and conservation
2:30	Hund, Amanda Parasite mediated sexual selection and speciation in the barn swallow species complex.	Covy, Nora Flocks of the Flatirons: Understanding how rock climbing influences presence and behavior of avian species	Seavy, Nathaniel How many birds is enough? Developing population targets for common birds to guide ecosystem management and restoration	Karubian, Jordan Avian diversity in forest fragments	Reddy, Sushma The impact of taxon sampling and data type on difficult problems in phylogenomics: Birds in a bush revisited?	Benson, Thomas Interspecific variation in nest survival is not driven by nest predator identity or nest-site characteristics in shrub-nesting birds	Doyle, Jacqueline Can single nucleotide polymorphisms reveal population structure across divergent habitats in Prairie Falcons (<i>Falco mexicanus</i>)?
2:45	Lombardo, Michael Age-related patterns of sexual dimorphism in Tree Swallows	Colorado Z., Gabriel Assembly patterns of mixed-species avian flocks in the Andes	Ribic, Christine Proactive Management of Kirtland's Warbler under Changing Environmental and Management Conditions	Meyer, Kenneth Swallow-tailed Kite conservation: Case studies from 28 years of applied research	Rodríguez-Gómez, Flor Using phylogenomic markers to test the taxonomy and evolution of <i>Atthis</i> hummingbirds spanning the Isthmus of Tehuantepec in Mexico	Dinsmore, Stephen The role of colony position on Least Tern nest survival in Mississippi	Price, Jordan Nest evolution in the earliest passerines

3:00-3:30pm Refreshment Break, Columbia Ballroom.

THURSDAY Session C (3:30 pm–5:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	Surviving the heat: integrating physiology, behavior, and morphology to predict population responses to climate change	Understanding and engaging America's birdwatchers: What is the path to conservation action?	Full annual cycle population ecology	Synthesizing science to inform conservation of songbird migrants around the Gulf of Mexico	Mitochondrial discordance, barcode gaps, and the nature of avian species	Separating birds and aircraft: uniting science and conservation for safer skies	Bird Ecosystem Services: New Approaches and Future Directions
Mod	Wolf & McKechnie	Rich & Kaufman	Woodworth & Norris	Cohen & Buler	Hill	Dolbeer	Whelan & Tomback
3:30	Talbot, William Surviving the heat: Nocturnal Sonoran Desert birds	Lanham, Joseph Range Mapping — Integrating Bird Conservation on Human Landscapes	Sandercock, Brett Seasonal Components of Survival in Migratory Upland Sandpipers	Deppe, Jill Estimating the functional role and quality of stopover sites around the Gulf of Mexico to inform conservation priorities for Neotropical migratory songbirds	Taylor, Scott Natural selection and the maintenance of reproductive isolation between hybridizing chickadees	Blackwell, Bradley Role of sensory ecology and behavioral theory in enhancing avian detection and response to aircraft approach	Betts, Matthew Strength of bird trophic cascades is mediated by forest management intensity
3:45	Albright, Thomas Mapping lethal dehydration risk in desert birds of the Southwest USA under current and future climates: integrating physiology and microclimate	Samis, Carrie Connecting the Dots—A Case Study for Inclusion and Relevance as Critical Tools for the Future of Bird Conservation	Desprez, Marine Linking demography and foraging behaviors in a long-lived seabird, the black-browed albatross	McWilliams, Scott What is good quality habitat for migrating songbirds? A nutritional and physiological perspective		Weller, John Conflicting regulations: balancing aviation safety and threatened/ endangered species using airport habitats	Kormann, Urs Corridors restore animal-mediated pollination in fragmented tropical forest landscapes
4:00	Sekercioglu, Cagan The effects of climate change on tropical birds	Regan, Ron The Blue Ribbon Panel on Sustaining America's Diverse Fish and Wildlife Resources	Cleasby, Ian Climatic conditions produce contrasting influences on demographic traits in a long distance Arctic migrant	Cohen, Emily Migratory connectivity of spring migrants on the northern coast of the Gulf of Mexico		Atwell, Nick Threatened/endangered species and critical habitats on airports: a case study in unintended consequences	Garfinkel, Megan Future directions for bird-provisioned pest control studies in conventional agricultural systems
4:15	PANEL DISCUSSION	Fitzpatrick, John Could Birders Become the Next NRA?	Arcese, Peter Multi-decadal trends in full-life cycle drivers of population growth and size: lessons for the next century	Mehlman, David Preliminary analysis of the conservation status of Gulf of Mexico stopover areas	Stoeckle, Mark Species 2.0: Successive replacements keep species young and make them older at the same time?	Harmon, Lisa Bird hazard or national resource? Inter-agency collaboration for a wildlife hazard management plan and Greater Sage-grouse conservation efforts at the Jackson Hole Airport	Belaire, J. Amy Cultural ecosystem services and disservices of birds in urban neighborhoods
4:30	PANEL DISCUSSION	PANEL DISCUSSION	Thogmartin, Wayne A generalizable energetics-based full-annual-cycle model of avian migration to facilitate continental-scale waterbird conservation.	Barrow, Wylie Setting Gulf Coast Habitat Objectives for Migrating Landbirds		PANEL DISCUSSION	Johnson, Matt Hearts, minds, or wallets? Balancing intrinsic, cultural, and economic values in narratives of bird conservation
4:45			PANEL DISCUSSION	Woodrey, Mark Common Monitoring Objectives for a Gulf of Mexico-wide Avian Monitoring Network			PANEL DISCUSSION

THURSDAY Session C (3:30 pm–5:00 pm)

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Symposia & General Sessions

	Room 8 Georgetown West	Room 9 Georgetown East	Room 10 Gunston East	Room 11 Gunston West	Room 12 Cardozo	Room 13 Fairchild East/West	Room 14 Cabinet
	Management & Policy	Community Ecology	Conservation	Habitat Relationships	Phylogeography	Population Biology	Evolution
Mod	Pavlacky, David	Brauch, Jess	Ribic, Christine	Karubian, Jordan	McCormack, John	Dinsmore, Stephen	Safran, Rebecca
3:30	Pope, Jackson Collecting the Sounds of Nature: Building an Online Archive of Bird Song Records	Thomsen, Sarah The enemy of my enemy: indirect interactions mediate how seabirds become prey on an oceanic island	Ralston, Joel Taxonomic status and habitat associations of the declining Newfoundland Gray-cheeked Thrush (<i>Catharus minimus minimus</i>)	MacLean, Sarah Urbanization and water availability drive avian community composition in the California Central Valley	Batthey, Christopher Phylogeography of the Rufous Hummingbird (<i>Selasphorus rufus</i>): Insights on Migratory Connectivity and a Recent Wintering Range Expansion	Akresh, Michael Carry-over effects of winter habitat on breeding season phenomena vary annually and among sex and age classes in prairie warblers	Catanach, Therese Phylogenetic analysis of the <i>Degeeriella</i> complex (Insecta: Phthiraptera): The problem of defining genera of lice based on the classification of their hosts.
3:45	Herse, Mark Relative effects of landscape characteristics on within-season occupancy dynamics of a rare and highly mobile grassland bird: a multi-scale approach	Jusino, Michelle Shroom with a view: fungal communities associated with Acorn Woodpeckers and their excavations	Ramesh, Vijay Where the Wild Birds are: Spatial Mismatch and Range Contractions of the Western Ghats Avifauna	Chronowic, Daniel Occurrence and Habitat Selection of Upland Sandpiper (<i>Bartramia longicauda</i>) in Southern Ontario, Canada	Younger, Jane Cryptic diversification within the <i>Newtonia</i> of Madagascar: evidence from ultra-conserved elements, nuclear introns and mitochondrial sequences	Sedinger, Benjamin Using Capture-Mark-Recapture Data to Estimate the Population Growth Rate for Wood Ducks in Western Nevada	Kenyon, Haley Does body size divergence in sympatry cause a corresponding divergence in song among closely related species of birds, worldwide?
4:00	Wendt, Carrie Examining barn owl nest box occupancy at three spatial scales in Napa Valley vineyards	Gomez, Juan Pablo Deterministic turnover of tropical bird communities along a steep rainfall gradient	Thompson, Hillary A day in the life of a Whooping Crane: habitat use and movements on the wintering grounds	Williams, Sean In mixed-species flocks in Amazonian Peru, the habitat preference of a single species is responsible for space use patterns of the whole flock	Johnson, Oscar Phylogeographic patterns of Amazonian river-island birds	Wheeler, Michael Modeling transition rates of sandhill cranes using a multi-state model and estimating population trends with N-mixture models	Chiver, Ioana Sex differences in androgen activation of complex courtship in a tropical bird
4:15	Gast, Laura Transforming Citizen Science into Informative Range Maps	Wagner, Marlene Salmon subsidize songbird success	Farwell, Laura Breeding songbird response to Marcellus-Utica shale gas well and infrastructure development	Brown, Holly Day herons do not mitigate glare by adjusting body orientation while foraging.	Spellman, Garth Geographic variation in the worn-out, shabbily dressed trumpeter (better known as the Rock Wren)	Wommack, Elizabeth Molecular Analysis of the Population Structure and Modern Changes in Population Size of the American Kestrel (<i>Falco sparverius</i>) Across North America	Weckstein, Jason Parasites as markers of avian host ecology and evolution: Examples from the micro and macroevolutionary histories of parasitic chewing lice (Insecta: Phthiraptera)
4:30	Preston, Kristine Using Science to Inform Coastal Cactus Wren Management in Southern California	Ralph, C.J. A direct investigation of the role of competition in Hawaiian forest birds	Ng, Janet Identifying current and future conflict risk between wind energy development and Ferruginous Hawk nesting habitat	Hucks, Katrina Modeling bird distributions in response to coastal restoration scenarios	Winker, Kevin Ultraconserved elements (UCEs) illuminate the population genomics of a recent, high-latitude speciation event	Sillett, Scott Survival of passerines during spring and fall migration: the importance of seasonal interactions	Barker, Keith Biogeography outperforms mating systems in explaining rates of morphological evolution in Icteridae
4:45	Pavlacky, David Can grazing management for the Lesser Prairie-chicken serve as an umbrella for the conservation of the grassland avifauna in the southern Great Plains?	Graham, Catherine Linking patterns and processes across scales: a case study with Neotropical hummingbirds	Frantz, Mack Louisiana Waterthrush & Benthic Macroinvertebrate Response to Shale Gas Development	Yeany, David Forest Interior Bird Habitat Relationships in the Pennsylvania Wilds	McCormack, John Testing for hidden histories of gene flow using genomic markers	Chang, Alexander Body condition in Snowy Owls wintering on the Canadian prairies is greater in females and older individuals and leads to sex-biased mortality	McEntee, Jay The conservation of behavioral traits, and their roles as selective regimes for female plumage conspicuousness, in the Passeriformes

THURSDAY Session D (5:30 pm–7:00 pm)

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Lightning Symposia

	Room 10 Gunston East
	Lightning Symposium: Automated radio telemetry in bird research and conservation
Mod	Taylor & Mackenzie
5:30	Ward, Michael Using automated telemetry to investigate small scale behaviors
5:35	Feura, Jared Estimating Clapper Rail (<i>Rallus crepitans</i>) survivorship using automated radio telemetry
5:40	Morbey, Yolanda Sex differences in the stopover behaviour of Black-throated Blue Warblers during spring migration
5:45	Tremblay, Junior A Pre-migratory movements and migration routes of Bicknell's Thrush (<i>Catharus Bicknelli</i>) revealed by the Motus wildlife tracking system.
5:50	10 minute Q&A
6:00	Dossman, Bryant Assessing Plasticity in the Migratory Behavior of a Songbird Wintering in the Caribbean Using the Motus Wildlife Tracking System.
6:05	Saldanha, Sarah Communal roosting in breeding and pre-migratory Bank Swallows in New Brunswick
6:10	Mitchell, Greg Automated telemetry reveals regular and extensive movements by Bank Swallows to wetland roosting habitat during breeding: implications for conservation
6:15	McWilliams, Scott Southbound Merlin (<i>Falco columbarius</i>) migration in southern New England and the mid-Atlantic
6:20	10 minute Q&A
6:30	Brown, Morgan Automated radio telemetry reveals expanded scale of movement across multiple species and life-history stages.
6:35	Loring, Pamela Boats, buoys, and beyond: extending coverage of nanotag tracking stations into offshore environments
6:40	Smith, Paul Tracking 2.0: Using Tracking Data to Improve Population Monitoring of Long-Distance Migrant Shorebirds
6:45	Gonzalez, Ana The gift that keeps on giving: using Motus tags on wintering migrant birds in Colombia
6:50	Gomez, Camila A coordinated radio-telemetry system tracks the intercontinental flights of migratory songbirds
6:55	5 minute Q&A

Lightning Symposia

	Room 13 Fairchild East/West
	Lightning Symposium: Keeping Common Birds Common II: Innovative Science in the Service of Conservation – Case Studies
Mod	Rosenberg & Rushing
5:30	Jones, Malcolm Science and decision-making at the Joint Venture scale
5:35	Giocomo, James Advancing grassland bird conservation at the ecoregional scale
5:40	Will, Tom The Conservation Atlas for Midwest Grasslands: A New Mapping Tool to Support Strategic Decisions and Cross-sector Collaboration
5:45	Joos, Cara Using occupancy models to plan regional multi-species grassland bird conservation
5:50	10 minute Q&A
6:00	Evans, Brian The Rusty Blackbird Blitz: Using six years of citizen science data to predict the wintering and stopover habitat for a formerly common species
6:05	Wright, James Do migratory Rusty Blackbirds have a third stationary period in their annual cycle? Automated telemetry reveals the 'stopover' ecology of a species in decline
6:10	Gonzalez, Ana Migratory connectivity of the Canada Warbler unveiled using stable isotopes analysis of feathers
6:15	Sandoval, Luis Urban development effect on Costa Rican bird species: evidence from multiple points of view
6:20	10 minute Q&A
6:30	Mini, Anne Implementing Landscape-Scale Conservation for Forest-Breeding Birds through Prioritized Habitat Restoration
6:35	Burger, Michael Forest stewardship for stewardship species of the Atlantic Flyway
6:40	Beardmore, Carol Using eBird to find relationships between priority migratory species and resident birds in western Mexico for conservation project planning
6:45	Lebbin, Daniel Prioritizing and implementing projects for the rarest bird species in the Americas
6:50	10 minute Q&A

THURSDAY Session D (5:30 pm–7:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Lightning Talks

	Room 11 Gunston West
	General Lightning Session
Mod	Ungvari-Martin
5:30	Provost, Kaiya Genetic and behavioral divergence among Northern Cardinal populations: testing the permeability of a biogeographic barrier
5:35	Benz, Brett Phylogenetic relationships of myzomelid honeyeaters reveal contrasting patterns of diversification in Australasia
5:40	Ruskin, Katharine Abundance and demographic rates are not correlated across the global range of a species
5:45	Amar, Arjun Just Google it: using Google Images to describe geographical variation in visible traits of birds
5:50	Smith, Brian Asymmetric gene flow during the protracted diversification of dry-forest-bird assemblages in northwest Peru
5:55	5 minute Q&A
6:00	Ruelas Inzunza, Ernesto Metrics of Neotropical Bird Wings: Ecological and Evolutionary Correlates
6:05	Mason, Nicholas Endemism in the Pacific lowlands of Mexico: Phylogeography of the White-collared Seedeater (<i>Sporophila torqueola</i>)
6:10	Chua, Vivien Patterns and mechanisms of population diversification in Bornean montane birds
6:15	Cortes, Nandadevi Geographic and Morphological variation within the <i>Icterus chrysater</i> complex (Yellow-backed Oriole)
6:20	Perktas, Utku Integrating morphology, phylogeography, and ecological niche modeling to explore population differentiation in North African Common Chaffinches
6:25	5 minute Q&A
6:30	Brunner, Alicia Seasonal changes in habitat utilization of Swainson's Warblers in response to moisture and prey abundance
6:35	Ungvari-Martin, Judit Movement, isolation and gene flow of habitats specialist species among patches of white sand forests
6:40	Heathcote, Alexandra Ecology, behaviour and morphology of landbirds in Grenada
6:45	Wiegardt, Andrew Elevational Movements of Songbirds After the Breeding Season
6:50	5 minute Q&A

Lightning Talks

	Room 12 Cardozo
	General Lightning Session
Mod	Ballentine
5:30	Ballentine, Barbara Investigating behavioral variation in urban and rural populations of eastern bluebirds
5:35	Montes-Medina, Adolfo Christian Mechanism for vocal discrimination in nesting calls of the Lilac-Crowned Parrot
5:40	Mitchell, Adam The Harsh Weather Hypothesis: A Proximate Mechanism for Slow Post-Natal Development of High Elevation Birds
5:45	Rohwer, Vanya Trade-offs between plumage quality and time spent in the nest in baby birds
5:50	Fish, Alexander Fledgling Bachman's sparrow survival, movement, and habitat selection in a landscape managed with frequent fire
5:55	5 minute Q&A
6:00	Hague, Michael Parental adjustments in the face of danger: is it for the birds?
6:05	Montgomerie, Robert The peahen is a persnickety shopper
6:10	Blizard, Misha Plumage pattern dimorphism in a shorebird exhibiting sex-role reversal (<i>Actitis macularius</i>)
6:15	Liu, Irene Using targeted-sequence approaches to test for positive selection in reproductive proteins of <i>Agelaius</i> blackbirds
6:20	Ames, Elizabeth Linking Winter Habitat, Phenology, and Post-Fledging Survival in a Migratory Songbird
6:25	5 minute Q&A
6:30	Buechley, Evan Importance of Ethiopian shade coffee farms for forest bird conservation
6:35	Adams, Bryce Predicting and describing gradients of forest breeding birds: linking ordination space to environmental gradients
6:40	Sari, Eloisa Parental characterization of hybrids from the Helmeted Manakin and the Swallow-tailed Manakin using DNA sequencing
6:45	Mauck, William Phylogenomics of Lories and Lorikeets (Order: Psittaciformes)
6:50	5 minute Q&A

POSTER PRESENTATIONS *Poster presentations begin at 5:00 pm

- 1 **McClusky, Waverly**
Keeping birds away from food using sonic technology: a potential for protecting crops
- 2 **Brussee, Brianne**
Heterospecifics influence parental behaviors and nest survival in a mixed-species colony on Alcatraz Island, California
- 3 **Ward, Michelle**
Female hooded warbler (*Setophaga citrina*) behavior in response to a foreign object in the nest
- 5 **Roche, Christopher**
Social structure among resident Carolina Chickadees (*Parus carolinensis*) and irruptive Black-capped Chickadees (*P. atricapillus*)
- 6 **Proppe, Darren**
Conditioning songbirds to human-dominated environments: Can we train for success?
- 7 **Aberle, Matt**
The Effects of Anthropogenic Activity, Social Instability, and Social Behavior, on the Transmission of an Infectious Bacterium in a Songbird Host
- 8 **Gable, Connor**
Do House Wrens use spider egg cases as a way to control ectoparasitic mites in their nests?
- 9 **Wszola, Lyndsie**
Anthropogenic predation risk and habitat structure interact to shape avian spatial decisions
- 10 **McCune, Kelsey**
Mexican Jays and Western Scrub-Jays differ in quantity, but not quality of social interactions
- 11 **Bobay, Lia**
The Effect of Winter Weather Variation on Long-Distance Migratory Behavior
- 12 **Anderson, Rachel**
The Effects of Ambient Temperature on Morning Incubation Behavior of Hooded Warblers (*Setophaga citrina*)
- 13 **Hope, Sydney**
The effect of incubation temperature on Wood Duck duckling behavior
- 14 **Tutterow, Jessica**
Does the microbial community of nestlings' fecal sacs influence parental nest sanitation behavior of a songbird?
- 15 **Hightower, Jessica**
The sound of fear: bioacoustics reveal fine-scale responses of songbirds to predator cues across a logging gradient in Borneo
- 16 **Kahn, Zach**
Sing for your spouse: Acoustic paternity guarding in a duetting songbird
- 17 **Albrecht-Mallinger, Dan**
Leks on the Landscape: Variation in lek structure in four manakin species along a strong rainfall gradient the Panama Canal Zone
- 18 **Arellano, Caleb**
Sibling play preferences: Brood size effects on sibling social networks and later cognitive development in a wild parrot population.
- 19 **Polekoff, Sarah**
Differences in exploratory behavior as a personality trait between chickadee sister species
- 20 **Berlow, Mae**
A comparison of lethal and non-lethal sampling of avian gut microbial communities
- 21 **Windhoffer, Eva**
Evidence of Predation and Disturbance in Nesting Waterbird Colonies on a Louisiana Barrier Island System using Video Monitoring
- 22 **Cowell, Sammy**
Tag-Team Takeover: Usurpation of Woodpecker Nests by Western Bluebirds
- 23 **Rahinsky, Tonya**
Augmentation of nest site availability for four species of cavity nesting birds: Barred Owl (*Strix varia*), Eastern Screech-Owl (*Megascops asio*), Hooded Merganser (*Lophodytes cucullatus*), and Wood Duck (*Aix sponsa*)
- 24 **Meneses Ramírez, María del Rocío**
Hummingbird nesting response to restoration efforts in riparian habitats in arid lands
- 25 **Schaefer, Richard**
American Kestrel nesting habitat and nestling provisioning in the West Gulf Coastal Plain
- 26 **Stokes, Jared**
Breeding Home Range Size of Scissor-tailed Flycatchers (*Tyrannus forficatus*)
- 27 **Ferguson, Lisa**
Response of beach-nesting birds to beach elevation enhancement post Hurricane Sandy
- 28 **Angell, Emily**
Fire seasonality influences some aspects of reproduction, but not overall productivity, of the endangered Red-cockaded Woodpecker
- 29 **Bejarano Alegre, Vanesa**
Latitude-dependent tradeoffs between investment in molt and reproduction in Fork-tailed Flycatchers (*Tyrannus savana*)
- 30 **Berkunsky, Igor**
Breeding ecology of the Blue-crowned Parakeet (*Thectocercus acuticaudatus*) in the Argentinean Chaco
- 31 **McCullough, Jenna**
Breeding Biology of The Black-Throated Tody-Tyrant (*Hemitriccus granadensis*) With Notes on Mating Displays
- 32 **Szczys, Patricia**
Common Tern and Arctic Tern Hybridization Produces Fertile Offspring
- 33 **Pellegrini, Anne**
Relationship between habitat characteristics and nest survival in the Southwestern Willow Flycatcher
- 34 **Mones, Spyncer**
Relationship between nestling characteristics and blood hemoglobin concentration in Carolina Chickadees
- 35 **Hart, Megan**
Seaside Sparrow (*Ammodramus maritimus*) nest success following the Deepwater Horizon oil spill
- 36 **Campos Cerda, Felipe**
To feather one's nest: the relationship between nest type and the avian early microbiome.
- 37 **Awais, Muhammad**
Breeding Biology of House Crow (*Corvus splendens*) at Hazara University, Mansehra, Pakistan
- 38 **Liang, Dan**
Breeding biology of Fire-tailed Myzornis in an alpine environment in Southwest China
- 39 **Salgado-Ortiz, Javier**
Breeding biology of a year-round resident population of the Loggerhead Shrike (*Lanius ludovicianus*) from central Mexico
- 40 **Lopez, Aldana**
Comparison of sexual characters in two sister species of the genus *Tachycineta* that differ markedly in their mating system
- 42 **Shutler, Dave**
The Parental Choreography Hypothesis

POSTER PRESENTATIONS *Poster presentations begin at 5:00 pm

- 43 **Nemec, Shelby**
The effect of breeding experience on the reproductive success of female Carolina Chickadees
- 44 **Tipton, Joseph**
Maternal care in different contexts: Incubation constancy and nestling provisioning by female Carolina Chickadees
- 45 **Deaner, Lauren**
Evaluating remote camera picture frequency to estimate incubation patterns
- 46 **White, Aija**
Local resources may limit parental flexibility in provisioning behavior
- 47 **Mouton, James**
Plastic responses of parents and offspring to nest predation risk differ across species.
- 48 **Heckscher, Christopher**
Reproductively unsuccessful female Veeries incur a seasonal carry-over cost: A full life cycle approach using remote tracking technology
- 49 **Sumasgutner, Petra**
Family morph matters: factors determining survival and recruitment in a long-lived polymorphic raptor
- 50 **Koch, Rebecca**
Exploring the function of carotenoid signals using carotenoid- and ornament-free birds
- 52 **McGhee, Amanda**
Climate and breeding effort explain annual variation of carotenoid content in female Prothonotary warblers (*Protonotaria citrea*)
- 53 **Greene, Virginia**
The Effect of Mercury Exposure on Mate Choice in Birds
- 54 **Abolins-Abols, Mikus**
Hormone and melanocyte signaling in a social feather ornament
- 55 **Whittingham, Linda**
Experimental Evidence that Colorful Males Sire More Extra-pair Young in Swallows
- 57 **Coomes, Casey**
Female white crowned-sparrows (*Zonotrichia leucophrys*) show preference for high minimum frequency songs
- 59 **Koch, Robert**
SWIFT: A small, low-cost acoustic recorder for terrestrial wildlife monitoring applications
- 60 **Snell, Cara**
Altered mountain chickadee (*Poecile gambeli*) song in regions of sympatry does not reduce aggression from black-capped chickadees (*Poecile atricapillus*)
- 61 **Bergen, Elizabeth**
Predictors of attack in an aggressive vocal display by satin bowerbirds (*Ptilonorhynchus violaceus*)
- 62 **Kulkarni, Apoorva**
Assessing the evidence for a split repertoire in a tropical wood-warbler
- 63 **Moran, Ines**
Quiet Violence: Do soft songs predict physical aggression in Savannah Sparrows?
- 64 **Otter, Ken**
The value of simplicity – do variant song types affect interactive signalling in white-throated sparrows?
- 65 **Shank, Evangeline**
The Structure and Function of Female Song in Eastern Bluebirds (*Sialia sialis*)
- 66 **Witynski, Max**
Verdins recognize divergent songs: relating the window of recognition to life history in the only New World member of the Remizidae
- 67 **Doser, Jeff**
Use of Soundscape Recordings to Analyze Daily Temporal Variation in Avian Vocalizations in Western New York
- 68 **Strauss, Amy**
Acoustic adaptation as a driver of song divergence in Galapagos finches
- 69 **Wilson, Scott**
Songbird response to vegetation recovery on reclaimed well sites in the boreal forest of Alberta.
- 70 **Fishbein, Adam**
Using Operant Conditioning Methods to Measure Song Perception in Birds
- 71 **Landsborough, Blaine**
Intraspecific variation in the nocturnal flight calls of migratory passerines
- 73 **Eadie, John**
Sex allocation in a conspecific brood parasite
- 74 **Korey, Heather**
Monitoring Migrating Passeriformes of the Eastern Flyway for Avian Influenza
- 75 **Ayala, Andrea**
Occurrence of Newcastle Disease Virus Vaccines in Free-ranging Wild Birds
- 76 **Liu, Tyng**
Prevalence of avian haemosporidia across a hybrid zone in the western United States
- 77 **Collins, Michael**
Avian haemosporidian prevalence and its relationship to host traits
- 78 **Gould, Geoffrey**
Implications of Emerging Diseases for the Conservation of Declining Populations:
A Case Study of West Nile Virus and Lesser Prairie-Chickens
- 80 **Pacheco, Maria**
Ascertaining the diversity and rate of evolution of mitochondrial genes in avian Haemosporidian parasites
- 81 **Moyers, Sahnzi**
Feeder density influences pathogen transmission in house finches *Haemorrhous mexicanus*
- 82 **Bevins, Sarah**
Wild birds and high pathogenic avian influenza
- 83 **Rice, Carrick**
Ectoparasites in a Colonial Blackbird Species
- 84 **Slowinski, Samuel**
Sedentary dark eyed-juncos (*Junco hyemalis*) maintain a higher prevalence of *Plasmodium* infections throughout the winter and early spring than migratory juncos in a seasonally sympatric population
- 85 **DeSimone, Joely**
Do tree swallows buffer their offspring against ectoparasites?
- 86 **Sweet, Andrew**
Patterns of evolution between a group of New World doves and their parasitic feather lice
- 87 **Mitchell, Preston**
Host Associations and New Geographic Localities of Avian Chewing Lice from Benin

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- 88 **Bebus, Sara**
Stress response in Florida scrub-jays (*Aphelocoma coerulescens*) predicts behavioral response following capture
- 89 **Vernasco, Ben**
Individual Variation in Testosterone and Cooperative Behavior in a Neotropical Lekking Bird, the Wire-Tailed Manakin
- 90 **Moore, Ignacio**
Pathogenic cloacal bacteria as a cost of testosterone in a tropical bird
- 91 **Power, Sean**
How do seasonal birds get so fat? Investigating the physiological mechanisms driving fat gain
- 92 **Khan, Memuna**
Androgen metabolite measurement in Eastern Bluebird (*Sialis sialis*) nestlings.
- 93 **Clifton, Kalen**
An Investigation of the Effect of Environmentally Relevant Methylmercury Exposure on Thyroid Hormones in Zebra Finches
- 94 **Myers, Brian**
Applications of behavioral and morphological data across a hummingbird hybrid zone
- 95 **Núñez-Rosas, Laura**
Mating systems, male territoriality and agility as predictor of sexual size dimorphism in hummingbirds
- 96 **Zvornicanin, Jasmin**
Tight and diffuse coevolution: Exploration of hummingbird beak and floral morphology.
- 97 **Curry, Claire**
Geographic and genomic clines, population structure, and range expansion in a temporally complex titmouse (*Paridae*) hybrid zone
- 99 **Rocha-Méndez, Alberto**
When molecules do not follow morphology: Phylogeography of the *Atlapetes albinucha* complex (*Aves*, *Emberizidae*).
- 100 **Griffith, Emily**
The Evolution of Tarsal Spurs in Galliformes
- 101 **Griffiths, Carole**
Falcon Song: Size Matters
- 102 **Morrison, Erin**
The diversification of flux control at branch points in carotenoid metabolic pathways in birds
- 103 **Jensen, Ashley**
Population Genetic Structure and Diversity of Ruffed Grouse
- 104 **Imfeld, Tyler**
The relationship of species diversification and morphological evolution in New World oscines
- 106 **Schroeder, Katie**
The role of microhabitat in the evolution of sound propagation of rail calls
- 107 **Brzeski, Kristin**
Variation in DNA methylation and mercury exposure in urban and rural dwelling songbirds
- 108 **Fowler, Melinda**
Assessing individual variation in parental care using multiple physiological metrics
- 109 **Ospina, Emilie**
The role of incubation behavior in shaping developmental physiology in a wild Passerine
- 110 **Pollock, Henry**
Thermal physiology does not explain population declines of understory insectivorous birds in Neotropical forests
- 111 **Pistone, John**
Use of select venous blood analytes to assess the effects of parasite load and habitat on bird health
- 114 **Reichart, Letitia**
Preliminary Analysis of Plasma Metabolites for Baltimore Orioles During Two Stages of The Annual Cycle
- 115 **Van Brocklin, Marika**
Measurement of Creatine Kinase Levels for Baltimore Orioles During Spring Migration and Breeding in South Central Nebraska
- 116 **Griego, Michael**
Variation in body composition affects refueling performance and basal metabolic rate in Grey Catbirds (*Dumetella carolinensis*) during migratory stopover
- 117 **Harkness, Bronwyn**
An Assessment of Population Genetic Structure in Black Guillemots in North America
- 118 **Gayk, Zach**
Genomic insights into natural selection in the common loon (*Gavia immer*): evidence for aquatic adaptation
- 119 **McLaughlin, Jessica**
Using ultra-conserved elements to estimate gene flow in Beringian birds
- 120 **Liebgold, Eric**
To swab or not to swab: Amplification of DNA using buccal swabs instead of blood in New World Warblers (*Family Parulidae*)
- 121 **Trevelline, Brian**
Molecular Analysis of Nestling Diet in a Long-Distance Neotropical Migrant, the Louisiana Waterthrush (*Parus motacilla*)
- 122 **Welke, Catherine**
Montane barriers to gene flow: preliminary data on genetic variation in white-crowned sparrows
- 123 **Sauve, Drew**
An investigation into the genetic basis of partial migration in Western Bluebirds (*Sialia mexicana*) using candidate genes
- 124 **Driver, Robert**
Spatiotemporal variation in hatching success and nestling sex ratio in chickadee populations across a moving hybrid zone
- 125 **Piña Ortiz, Alberto**
The Population Genetic Structure of the Red-Billed Tropicbird (*Phaethon aethereus*) in the Gulf of California, México
- 126 **Chavez-Treviño, Alejandro**
Amplification of Toll-Like Receptor extracellular región in grassland sparrow in the Desierto Chihuahuense grassland.
- 127 **Cheek, Rebecca**
Mitochondrial DNA suggests recent origins in two coastal avian subspecies in northwestern North America.
- 128 **Beehler, Bruce**
Molecular Systematics and the Realignment of the Avifauna of the New Guinea Region
- 129 **Cayetano-Rosas, Hector**
Genetic, morphological and ecological differentiation of the Squirrel Cuckoo in Mexico
- 130 **McFarland, Kent**
Documentation of a Hybrid Bicknell's Thrush (*Catharus bicknelli*) and Veery (*C. fuscescens*) using Morphological, Behavioral, and Genetic Data
- 131 **Shakya, Subir**
Tapping the Tree to Gain Insight into Woodpecker Evolution
- 132 **French, Cooper**
Assessing Population Structure and Hybridization in Migratory and Resident Species of the genus *Pipilo*

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- 134 Lim, Haw Chuan**
Sundaland's east-west rainforest population structure: Variable manifestations in four polytypic bird species examined using RAD-Seq and plumage analyses
- 135 Kimball, Rebecca**
Complex adaptation to high altitude: A case study using complete mitogenomes
- 136 Natola, Libby**
Rangewide population genetic structure in three sapsucker species
- 137 Barrera De la Garza, Tania**
Phylogeographic Analysis of the Green Violetear (*Colibri thalassinus*)
- 138 Miyaki, Cristina**
Multilocus phylogeographical analysis of the species complex *Amazona aestiva*/A. *ochrocephala* (Aves, Psittacidae)
- 139 Keith, Katrina**
A reassessment of the systematics and biogeographic history of *Troglodytes* wrens.
- 140 Moncrieff, Andre**
Description of putative zones of introgression between plumage morphs in *Lepidothrix coronata*
- 142 Antalffy, Janine**
Evolutionary biogeography of the white-browed laughingthrush in china's sichuan basin
- 143 Oakley, William**
Modeling Distributions of Disjunct Populations of Nelson's Sparrow (*Ammodramus nelsoni*)
- 144 Machado-Stredel, Fernando**
Improving our knowledge of species ranges: ecological niche modelling of a South American wren
- 145 Miranda, Hector**
Mitogenomic Phylogeography of the Peacock-Pheasants Polyplecton of Southeast Asia
- 146 Kopuchian, Cecilia**
Demographic history inferred from genome-wide data together with morphological analyses reveals two lineages of sheldgeese endemic to a glacial refugium in the southern Atlantic: Taxonomic and Conservation Implications
- 147 Gonzalez, Sara**
Influence of Land Use on Aquatic Subsidies to a Terrestrial Consumer
- 148 Belman, Dianna**
Environmental Conditions Explain Multimodal Signaling in the Northern Cardinal (*Cardinalis cardinalis*)
- 149 Miller, Eliot**
Understanding the dominance hierarchy among North American feeder birds
- 150 Anderson, Daina**
Is Wetland Restoration All It Is Quacked up to Be? A Waterbird Community Perspective
- 153 Clipp, Hannah**
Comparing Waterbird Communities of Two Created Wetlands in West Virginia
- 154 Nell, Colleen**
Tree diversity and identity mediates insectivorous bird communities and top-down suppression of herbivores
- 155 Starkloff, Naima**
Bird communities in anthropogenic hill forest habitats in Sri Lanka: A comparison of conservation potential of analog forests, plantations and preserves
- 156 Byrd, Faith**
A survey of insects and arachnids found in the nests of Carolina Wrens (*Thryothorus ludovicianus*) in urban and rural environments
- 157 Chitwood, Ryan**
Modeling survival and recruitment of Black-throated Blue Warbler (*Setophaga caerulescens*) populations at warm-edge range margins
- 158 Ritterson, Jeffrey**
Habitat-specific Survival of Golden-winged Warblers (*Vermivora chrysoptera*) in the Nonbreeding Season.
- 159 Strasser, Erin**
Winter survival of Baird's and grasshopper sparrows in the Chihuahuan Desert: Is this where populations are limited?
- 161 Wiley, Anne**
Persistent foraging segregation between closely-spaced seabird populations: A stable isotope perspective from the last millennium
- 162 Tuma, Molly**
Seasonal Survival in a Black-capped Chickadee (*Poecile atricapillus*) Population in Central Minnesota 1969-2012.
- 164 Johnson, Chelsea**
Long-term trends in body condition of raptors during fall migration along the Kittatinny Ridge in Pennsylvania
- 165 Craig, David**
Exploring Migratory Connectivity in North American Caspian Terns
- 166 Pearse, Aaron**
Timing, Location, and Causes of Mortality in migratory Whooping Cranes
- 167 Bath-Rosenfeld, Robyn**
Estimating population density of a Magnificent Frigatebird (*Fregata magnificens*) colony in St. Giles Islands, Tobago using photographic surveys
- 168 Bennett, Breanna**
Effect of PIT tags on survival of adult Carolina Chickadees
- 170 Gray, Brandon**
Intraspecific variation in morphology and foraging behavior in a Neotropical migrant
- 171 Johnson, Cecilia**
Prealternate molt of the Western Tanager: age and sex differences in timing, latitude, and intensity
- 172 Garrod, Holly**
Molt patterns in relation to breeding phenology for a tropical bird species, the Hispaniolan Woodpecker (*Melanerpes striatus*)
- 173 Daggett, Elena**
Feather growth bars as an indicator of social status in the Island Scrub-Jay (*Aphelocoma insularis*)
- 174 Wuenschel, Andrea**
The Under-appreciated Undertail Covert: Swallow Identification by Contour Feathers
- 175 Bleau, Adam**
Comparisons of habitat selection and behaviors between mallard (*anas platyrhynchos*) and American black duck (*anas rubripes*) in the finger lakes region during winter
- 176 Worm, Alexander**
Differential Habitat Selection Behavior at the Periphery of an Expanding Songbird Population
- 177 Boynton, Chloe**
Breeding productivity, phenology and habitat use of two co-occurring aerial insectivores
- 178 Kennedy, Dale**
Dispersal and behavior of post-fledging House Wrens

POSTER PRESENTATIONS *Poster presentations begin at 5:00 pm

- 179 Pérez, Adelaida**
Effect of endozoochory by birds on seed germination of plants of the cloud forest, Veracruz, México
- 180 Stein, Kristie**
Growth and survival of nestlings in two island populations of Black-crowned Night-Herons in southwestern Lake Erie
- 181 Kusack, Jackson**
Monitoring House Finch movements across a variable landscape using radio-frequency identification technology
- 182 Schubert, Spencer**
Western Scrub Jay scatter hoarding and post-dispersal acorn fate: when habitat matters.
- 183 Delancey, Clayton**
Identifying habitat preferences of Cerulean Warblers (*Setophaga cerulea*) in southern Indiana
- 184 Goodenough, Katharine**
Regional and post-breeding movements of Black Skimmers nesting in the Peruvian Amazon
- 185 Laplante, Marie-Pier**
Going the distance: what drives within-winter movements of snow buntings?
- 186 Guilfoyle, Michael**
Seasonal Movements of Double-crested Cormorants (*Phalacrocorax auritus*) in Urban and Rural Colonies
- 187 Cormier, Dominic**
Broad-scale post-fledging movements of two closely related warbler species with opposing life-history strategies.
- 188 Obermayer, Brennan**
Dispersal strategies of juvenile Bald Eagles (*Haliaeetus leucocephalus*) determined from satellite tracking
- 189 De Leon-Giron, Gonzalo**
Prey delivery to Golden Eagle nests in Baja California, Mexico
- 190 Rodríguez-Estrella, Ricardo**
National strategy for monitoring and conservation of the Golden Eagle in Mexico
- 191 Norman, Brandon**
A Swift New Predator: Herring Gull Predation at a Chimney Swift Communal Roost
- 192 Winter, Russell**
Hunting Behaviors and Foraging Success of Winter Irruptive Snowy Owls in New York
- 193 Driscoll, Hannah**
Nesting Success of Hooded Warblers: The Influence of Foraging Territories
- 194 Bjornen, Katie**
Avian Response to Insect Damage on Jack Pines (*Pinus banksiana*)
- 195 Wunderle, Joseph**
Diet Composition Shifts With Rainfall In Kirtland's Warbler Suggest that Predaceous Arthropods Are A Default Food Item During Winter Droughts
- 197 Coppola, Philip**
Prey Species and Size Selection by Snail Kites in the Everglades
- 198 Contreras-Martinez, Sarahy**
Spatio-temporal dynamics of hummingbird (*trochilidae*), in pine-oak post-fire forest in Western Mexico
- 199 Nishikawa, Elise**
Dealing with (un)seasonal drought: comparing two understory insectivores in Central Panama
- 200 MacDonald, Sean**
Do Non-Native Birds Facilitate Seed Dispersal for Critically Endangered Hawaiian Lobeliads?
- 201 Abbott, James**
Land snail bottom up control of avian diversity and Harpy Eagle (*Harpia harpyja*) nesting in the Bladen Nature Reserve, Belize
- 202 Vazquez-Reyes, Leopoldo**
Human perturbation promotes ruderal strategies in resident bird communities of Neotropical seasonal forests
- 203 Pizo, Marco Aurelio**
A comparison of bird communities in actively and passively restored tropical forests
- 204 Arcilla, Nicola**
Impacts of illegal logging on tropical forest birds in a biodiversity hotspot
- 205 Dreelin, Andrew**
Synthesizing Natural History and Citizen Science Yields Insights into the Life History and Distribution of the Spot-fronted Swift (*Cypseloides cherriei*)
- 206 Farley, Kathleen**
Improving Detectability Studies in Avian Tropical Cloud Forest Communities
- 208 Hsiung, Angela**
Altitudinal Migratory Behavior of a Neotropical Resident Bird Species in Costa Rica
- 209 Wilcox, Rebecca**
Spatial and temporal variation in movement patterns within the seed dispersal community on Oahu, Hawaii
- 210 Sotnychuk, Nadya**
Understanding the Global Prevalence of Plumage Microbes
- 211 Ransom, Tami**
Scale-dependent responses to forest structure in two ground-nesting warblers
- 212 Simons, Brittany**
Nest tree preference as a mechanism of expansion for Great-tailed Grackle
- 213 Frizzell, Stephanie**
Use of the University of North Georgia, Gainesville Campus, and Tumbling Creek Woods by Birds of Prey: February – April 2016
- 214 Afshari, Sebastian**
Large Area Survey for Habitat Analysis by Low Cost UAV Technology
- 215 Elphick, Chris**
The conservation status of tidal marsh birds in the northeastern United States
- 216 Lee, Jeffrey**
Space invaders: House sparrow density shifts along urban-agricultural landscapes in native and non-native cities
- 217 Rodríguez Hernández, Karla**
Relation of the characteristics of Urban Green Areas and Artificial Nest Predation in Mexico City
- 218 Drovetski, Sergei**
Comparing Two Genetic Markers used in the Identification of Diving Ducks (*Aythya*) Involved in Birdstrikes

ROUNDTABLES

Applications of Unmanned Aerial Systems (Drones) to Bird Studies

Ranging from hand-launched autonomous airplanes to terrestrial robots to under-water machines, small unmanned vehicle systems (UVS) are increasingly being employed in avian research and management. Some examples of applications being carried out in various regions of the world today include censusing breeding, wintering and migrating populations of colonially nesting waterbirds and seabirds, mapping breeding and foraging habitat of threatened species, examining nest contents of raptorial birds breeding in inaccessible locations, detecting signals from songbirds bearing radio-transmitters, and dispersing nuisance birds. This Round Table Discussion will provide an opportunity for ornithologists to explore possible applications of UVS of all types and sizes and to discuss the limitations faced by those wishing to utilize UVS in terms of costs, size, practicality in the field, regulations, etc.



Moderator: David Bird
Room 4: Jefferson West
***Time:** 7:15pm–8:30pm

Choosing a National Bird for Canada

There are movements afoot in Canada to select a national bird as part of the Canada celebrations for its 150th year of existence in 2017. The overall aim of this Round Table Discussion is to discuss the choosing of a national bird for Canada with the following specific objectives to be addressed: 1) Should Canada have a national bird? 2) What should be the criteria for choosing a national bird? 3) Does the gray jay fit those criteria? And 4) Should the gray jay be renamed as the Canada jay? All ornithologists are welcome to join in this discussion.



Moderator: David Bird
Room 4: Jefferson West
***Time:** 8:30pm–10:00pm

Best Practices for Surveying Neotropical Bird Communities

Counting birds is challenging, particularly in some Neotropical habitats where species are often quite rare, have restricted times of day or season in which they vocalize (if they vocalize at all), and the density of vegetation obscures our ability to see most birds. We will discuss methods for effectively surveying tropical birds with an emphasis on methods useful for benchmark surveys in this era of rapid environmental change.

Moderator: W. Douglas Robinson
Room 9: Georgetown East

Creating an Artificial Bird for Use by Aircraft and Engine Manufacturers in Certification Testing

The aerospace industry will be attempting to develop an artificial bird for use in engine and airframe impact/ingestion development and certification testing, and is inquiring about relevant studies in the avian science community. Currently, the industry generally employs gelatin based spheroids to simulate birds in impact and ingestion development tests, and these simulated bird test objects, while useful as a cost effective, reproducible engineering development tool, are not considered sufficiently representative of actual bird structure for certification use. In addition, the availability of appropriate birds for development and certification testing is increasingly becoming an issue. Development of an artificial bird that accurately represents actual birds is expected to result in refinements in bird impact damage tolerance, eliminate the need to raise and euthanize birds for impact/ingestion testing, and allow consistency in results across different manufacturers certification test results.

Moderator: Chris Demers
Room 10: Gunston East

Making Her Voice Heard: Increasing Awareness and Documentation of Female Bird Song

Bird song research has historically focused on temperate male songbirds, however, recent work shows that female song evolved early in songbird evolutionary history and more and more studies point to its prevalence worldwide. Despite growing interest in female bird song, reports of female song remain relatively sparse because it can be difficult to detect in monomorphic or poorly-studied species. This roundtable aims to improve and facilitate studies of female bird song by identifying methods to increase awareness of and improve consistent documentation of female song among researchers, birders, and citizen scientists.

Moderators: Karan Odom, Lauryn Benedict
Room 11: Gunston West

Patterns of Sociality Across the Genus *Corvus*

Implications for Adaptability, Cognition, Culture and Conservation Crows and ravens have been the subject of numerous studies of cognition, gaining the reputation as "feathered apes", but the number of species studied is few and the current field studies of their varied social structures are fewer. This roundtable will focus on using the genus *Corvus* to study relationships between social patterns, cognition, cultural variation and adaptability. It will also consider how such studies can help conserve critically endangered *Corvus* sp. This round table should interest anyone broadly interested in the evolutionary relationship of avian social structure and cognition, and the conservation of animal cultures

Moderators: Anne Clark, Kevin McGowan
Room 12: Cardozo

Rhythm 2.0: Software and Technology to Support Studies of Avian Incubation

Do you study incubation or other behaviors by using data loggers? Join an international community of researchers helping plan the scope of functionality for Rhythm2.0, free software to speed the reduction of logged data for behavioral research. Add to the brainstorming on wikispaces (<http://incubationsoftware.wikispaces.com>), and come to the NAOC roundtable to finalize development plans in person.

Moderator: Caren Cooper
Room 13: Fairchild East/West

Synthesizing Science to Inform Conservation of Songbird Migrants Around the Gulf of Mexico

Scientists and conservationists will discuss ways to advance conservation of migratory birds by incorporating new science into planning and delivery. Our goal will be to identify strategies for improving communication and advancing collaboration between the community of scientists working with migratory birds around the Gulf of Mexico and the agencies and foundations prioritizing and implementing acquisition and restoration of habitat in that region. The facilitated discussion will begin with an overview of programs, agencies, and foundations involved in land restoration and conservation on the U.S. coast of the Gulf of Mexico.

Moderators: Emily Cohen, Jeffrey Buler, John Tirpak, Randy Wilson, David Mehlman
Room 14: Cabinet

The Canada Warbler International Conservation Initiative Integrating Planning and Action on the Breeding and Wintering Grounds

The roundtable discussion will focus on determining the best approach to integrating the existing wintering ground and breeding ground conservation plans for the Canada Warbler into a single full lifecycle document. Attendees will be asked to identify all conservation actions that are currently underway throughout the range to facilitate coordination of those that contribute to the objectives in the conservation plan, and to support a gap analysis of priority issues not yet addressed. Ideally this will result in a concept for grant proposals to implement the Canada Warbler Conservation Action Plan.

Moderators: Judith Kennedy, Ted Cheskey
Room 15: Embassy

USGS Bird Banding Lab Bandit 4.0 Update and Question and Answer Discussion

The U.S. Geological Survey, Bird Banding Lab has released the newest version of its bird banding data submission software, Bandit 4.0. This roundtable is intended to help banders as a Bandit help session. The general format will include a short introductory presentation covering what's new in this version of Bandit followed by a question-and-answer period.

Moderators: Matt Rogosky, Elaine Nakash
Room 16: Dupont

FRIDAY Session A (10:30 am–12:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	Linking Scientists with Practitioners: Current Anthropogenic Issues and the Best Management Practices and Decision Support Tools for Bird Conservation in Practice	Network Theory in Ornithology	Variation in nestling development strategies, the ignored vital rate	Cuban avian diversity: research and conservation challenges for resident and migrant birds	Brood Parasitism	Urban Ecology	Behavior
Mod	Gehring & Dayer	Shizuka & Levin	de Zwaan & Aldredge	Inigo-Elias & Jimenez	Whitfield, Mary	Mathewson, Heather	Wiebe, Karen
10:30	Morrissey, Christy Agricultural intensification as a driver of precipitous declines of farmland birds in North America	Shizuka & Levin Introduction to the symposium.	Martin, Thomas Causes and considerations of variation in nestling growth strategies among temperate and tropical songbirds	Rodríguez, Aryamne Serrano Management and conservation of cavity nesting birds in Monte Cabaniguan Wildlife Refuge, Las Tunas, Cuba	Abernathy, Virginia Coevolution in Action: Defenses Against Brood Parasitism in a New Host of the Eastern Koel	Walters, Mitch To hear a mock-ingbird: The effects of urban noise pollution on Northern Mockingbird acoustic and visual signaling	Warning, Nathaniel Facultative nest modification by Rock Wrens (<i>Salpinctes obsoletus</i>)
10:45		Taylor, Caz Using networks to understand declines in migratory birds.		Mugica, Susana Cuban Bird diversity and habitat conservation through the Cuban National System of Protected Areas (SNAP)	Mandru, Michael Egg crypsis within host nests by the parasitic Brown-headed Cowbird	Lerman, Susannah Tracking urban bird community change within a socioecological framework in Phoenix, Arizona	Hallinger, Kelly Perceived predation risk modulates benefits of extra-pair paternity in Tree Swallows (<i>Tachycineta bicolor</i>)
11:00	Loss, Scott The State of the Science on Cat Predation of Birds	Knight, Samantha Constructing a range-wide migratory network in an aerial insectivore to assess which seasons drive long-term changes in abundance	de Zwaan, Devin Causes and consequences of nestling development variation in an alpine songbird population	Quevedo, Alexander Llanes Genetic characterization of Cuban colonies of American flamingos: impacts on its management and conservation.	Reboreda, Juan Planning host exploitation: temporal distribution of prospecting visits by parasitic cowbirds	Adalsteinsson, Solny Anthropogenic hazards in urban landscapes reduce juvenile songbird survival after independence from parental care	Jones, John A case of mistaken identity: Understanding the stimulus of agonism between two wood warblers
11:15	Lepczyk, Christopher Contemporary Cat Management and What It Means for Birds	Fletcher, Robert Advances in network analysis isolate the roles of movement and reproduction for population connectivity in an endangered bird	Aldredge, Robert Warm ambient temperatures reduce the variation in offspring growth caused by hatching asynchrony	Jiménez, Ariam Advances in the study and conservation of waterbirds and shorebirds in Cuba	Peer, Brian Increased strength of Shiny and Brown-headed Cowbird eggshells prevents damage during laying	Barber, Colleen European Starling nestlings adjust vocalizations in response to noise but do not show a physiological stress response	Dale, Catherine Migratory strategy is related to aspects of dietary flexibility in a partially migratory passerine
11:30	PANEL DISCUSSION	Rodríguez-Flores, Claudia Hummingbird-plant interaction network: Exploring the pattern from an evolutionary and morphological perspective	Bowman, Reed Fitness effects of early rearing conditions and growth differ between urban and wildland habitats in Florida Scrub-Jays	Hernández, Alina Perez Bird migration across western Cuba	Sorenson, Michael Contrasting Patterns of Genetic Divergence in Obligate Brood Parasites: Implications for the Genetics of Host-Specific Adaptation	Jensen, Meghan Genomic Adaptation of Cooper's Hawks to Urban Environments	Roberto-Charron, Amélie Unraveling the migratory pathways of the Canada Warbler across the Americas
11:45		Hobson, Elizabeth Socio-ecological inter-specific association networks: disentangling drivers of species association patterns in mixed species parrot flocks		Segovia Vega, Yasit What a permanent banding monitoring scheme tell us about migration, territoriality and effects of hurricanes on birds of tropical dry forests of south-eastern Cuba.	Whitfield, Mary Is target mist-netting an effective control method for reducing Brown-headed Cowbird parasitism?	Webb, Matthew Relationships among attributes of glass prototypes and avian detection in an experimental flight tunnel.	Wiebe, Karen Northern flickers only work when they need to: how individual traits and landscape disturbances affect excavation rates

12:00-1:30pm Lunch Break, on your own.

FRIDAY Session A (10:30 am–12:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 8 Georgetown West	Room 9 Georgetown East	Room 10 Gunston East	Room 11 Gunston West	Room 12 Cardozo	Room 13 Fairchild East/West	Room 14 Cabinet
	Breeding Biology	Conservation	Diseases and Parasites	Evolutionary Ecology	Migration & Stopover	Physiology	Abundance, Occupancy & Trends
Mod	Clark, Robert	Wolfe, Jared	Townsend, Andrea	Correll, Maureen	Perlut, Noah	Johns, David	Greig, Emma
10:30	Cox, James Nestling cross-fostering as a tool for manipulating population sex ratios in a cooperatively breeding passerine	Karp, Daniel Climate change and habitat conversion interact synergistically to favor the same tropical bird species	Matthews, Alix Feather mite abundance varies by ecological context, but symbiotic nature of mite-host relationship does not differ in two warbler species	Lim, Marisa Lineage age explains speciation rates in hummingbirds	McCabe, Jennifer The influence of wind selectivity on migratory behavioral strategies	O'Connor, Ryan Evaporative cooling capacity and heat tolerance in two southern African Caprimulgids	Ethier, Danielle Spatio-temporal variation in mechanisms driving regional-scale population dynamics of a model grassland bird: Bobolink (<i>Dolichonyx oryzivorus</i>)
10:45	Becker, Adam Annual Survival and Breeding Dispersal in Scissor-tailed Flycatchers: Associations with Sex and Reproductive Success?	Meneses, Luis The role of conservation areas in maintaining local populations of Magellanic woodpeckers in southern Chile	Takano, Oona Host associations and biogeography of parasitic avian chewing lice from Sub-Saharan Africa	Hofmeister, Natalie Environmental variability influences the evolution of the glucocorticoid receptor in African starlings	Althouse, Melissa Evaluating Anthropogenic Disturbances to Minimize Effects on Staging Seabirds	Sorenson, Graham Linking foraging patterns with energetic physiology in an Arctic seabird: Effects of varying ice conditions	Peach, Michelle Single-visit dynamic occupancy models: An approach to account for imperfect detection with Atlas data
11:00	Shustack, Daniel Habitat Selection and Nest Site Fidelity: Are we asking the right question?	Lebbin, Daniel Safeguarding the rarest bird species in the Latin America and the Caribbean from Extinction	McNew, Sabrina Galapagos mockingbirds lose tolerance to introduced nest parasites in dry years.	Megna, Libby Predicting reproductive isolation among passerines from song divergence and climatic niche divergence	Johnston Gonzalez, Richard Escape performance and structure of shorebird communities	Garcia-Heras, Marie-Sophie Carotenoid-based coloration, diet and healthiness in nestlings of a threatened and endemic Southern African raptor, the Black Harrier.	Sanchez-Clavijo, Lina Habitat-specific demography for resident birds in tropical agroforestry systems: is there evidence for ecological traps?
11:15	Diez Méndez, David Testing the relative effects of partial incubation and within-nest egg movements on hatching asynchrony	Reiley, Bryan Can private-land habitat restoration be used to meet population goals for conservation priority species?	William, Kern Evaluation of acute phase protein changes and blood loss values as indicators of parasite related effects in nestling European Starlings	Walsh, Jennifer Mate compatibility and fitness in a hybrid zone between saltmarsh and nelson's sparrows	Sjöberg, Sissel Ecological factors primarily determine timing of departures in nocturnally migrating songbirds	Hennin, Holly Manipulating baseline corticosterone alters reproductive decisions and reproductive success in an Arctic-nesting seabird	Shave, Megan Orchard nest boxes increase American Kestrel presence in a fruit-growing region of Michigan
11:30	Bulluck, Lesley Nest takeover by egg burial in a box nesting population of Prothonotary Warbler (<i>Protonotaria citrea</i>)	Gifford, Gemara Conservation value of tropical agroecosystems to migratory and resident birds in the Guatemalan Highlands	Franklin, Alan The role of wild birds in disseminating pathogenic and antimicrobial-resistant bacteria: A review	Benvenuti, Bri Nesting Plasticity in a Tidal Marsh Sparrow	Nelson, Allison Birds of a Feather Don't Always Flock Together: Migration patterns of San Francisco Bay Area Hermit Thrushes differ across a fine spatial scale	Keele, Emma Measurement of Triglyceride and Beta-Hydroxybutyrate in Baltimore Orioles a Migratory Songbird in South Central Nebraska	Burner, Ryan Elevational community structure on three Bornean mountains
11:45	Clark, Robert Nest site choices and consequences revealed by cross-fostering experiments in tree swallows	Wolfe, Jared Effects of variation in canopy cover, habitat perturbations and climate on California Spotted Owl (<i>Strix occidentalis occidentalis</i>) demography	Ham Dueñas, José Microgeographic and temporal variation in haemosporean prevalence in the Black-Throated Sparrows (<i>Amphispiza bilineata</i>) at Mexican dryland habitats	Correll, Maureen A Pleistocene disturbance event explains patterns of diversity in tidal marsh birds	Pletschet, Sandra Ground validation of avian roost rings located using weather surveillance radars	Johns, David Influences of Individual Quality and Energetic Carry-Over Effects on Reproductive Success	Freiday, Timothy Use of Adaptive Sampling Methods to Improve Estimates of Abundance and Occupancy of King Rails (<i>Rallus elegans</i>) in the Delmarva Peninsula

12:00-1:30pm Lunch Break, on your own.

FRIDAY Session B (1:30 pm–3:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	Linking Scientists with Practitioners: Current Anthropogenic Issues and the Best Management Practices and Decision Support Tools for Bird Conservation in Practice	Network Theory in Ornithology	Current and future prospects on avian de-extinction and genetic rescue	Knowing your S#&%: Comparing traditional and next-generation methods for understanding bird diets	Macrosystems Ornithology–Scaling from Individuals to Ecosystems	Metabolic Ecology	Behavior
Mod	Gehring & Dayer	Shizuka & Levin	Johnson & Novak	Welch & Powell	Kelly & Zuckerberg	Boyce & Stager	Clayton, Dale
1:30	Dietsch, Thomas Managing Solar Energy while Conserving Birds: State of the Science and Management to Reduce Impacts	Levin, Iris Phenotypic manipulation of male barn swallows: A social network experiment	Chase, Tom Inflecting main-stream conservation with genomic solutions	Sherry, Thomas Gut contents reveal dietary opportunism and diffuse competition among migratory Parulid warblers wintering in Jamaican shade coffee farms	Kratz, Tim NSF's MacroSystems Biology and Early NEON Science program supports regional to continental scale studies	Stager, Maria Juncos as Models for Pattern and Process in Metabolic Flexibility	Huang, Ping Phenotypic integration among melanistic morphological trait, stress hormone profiles and personality in male Northern Cardinals (<i>Cardinalis cardinalis</i>)
1:45		Ryder, Brandt Understanding how hormone-regulatory networks shape behavioral phenotype and social network structure in a lek breeding bird	Barrow, Mark From Discovery to Surveillance to Intervention: A Bird's Eye View of Modern Avian Extinction	Haribal, Meena Quality of sapsucker-sap: What can sap tell us about sapsucker-plant interactions?	Fink, Daniel Harnessing citizen-science data for cross-scale, full life cycle research and conservation	Swanson, David Metabolic Flexibility and Biogeography in Birds	Swift, Kaeli Wild American crows use age to assess relative risk communicated by dead conspecifics
2:00	Hale, Amanda Adverse effects of wind energy facilities on birds: state of science and management techniques for minimizing impacts	Evans, Julian The influence of individual characteristics on group dynamics in wild black-capped chickadees	Novak, Ben Revive & Restore's 'The Great Passenger Pigeon Comeback': predicting conservation gains of de-extinction through researching natural history	Hobson, Keith Dietary and energetic inferences from the isotopic analysis of bird breath	Zuckerberg, Benjamin Novel seasonal land-cover associations through dynamic species distribution modeling	McKechnie, Andrew Seasonal metabolic acclimatization in southern African birds: inter- and intraspecific variation	Petrelli, Alissa First to Flush: How are songbird flight initiation distances influenced by ambient sound?
2:15		Curry, Robert Utility of social network analysis for investigating behavior in Carolina Chickadee winter flocks	van de Lavoie, Marie-Cecile Primordial germ cells as a route to access the avian genome	Narango, Desiree Do exotic plants explain dietary shifts in nestlings of an insectivorous bird?	Horton, Kyle Avian flight strategies, exploring how migrants cope with wind drift across a latitudinal gradient	Vezina, Francois Metabolic variation in snow buntings during phenotypic adjustments for wintering and migration	Curry, Claire Behavioral responses to anthropogenic noise in two species of grassland songbirds in the Canadian mixed-grass prairie
2:30	Gehring, Joelle Reducing Avian Collisions with Communications Towers	Cramer, Emily Characterizing spatial and temporal variation in sexual selection in black-throated blue warblers using a sexual network approach	Cooper, Caitlin Generation of gene edited birds in one generation using sperm transfection assisted gene editing (STAGE).	Trimbath, Ryan A Tale of Two Colonies: Using Stable Isotopes to Study Herring Gull Diet Over 30 Years of Rapid Change in the Great Lakes	Pearce-Higgins, James Integrating data to study large-scale population responses to climate change	Gerson, Alexander Do environmental conditions experienced in flight affect flight metabolism, body condition at stopover, and refueling rate?	Prior, Nora Context- and behavior- dependent effects of male testosterone treatment on long-term pair-maintenance behavior in zebra finches
2:45	Nielsen, Lori State of science and recommendations for bird electrocution and collision risks with power lines	Wilkins, Matt Comparing phenotype networks across barn swallow populations: sexual selection and phenotypic integration	Godwin, John SRY Mice: Genetic approaches to controlling invasive rodent populations on islands	Gomez, Camila Metabarcoding and compound-specific stable isotope analysis of amino acids reveal how diet shapes the migratory strategies of birds	Ross, Jeremy Severe weather ecology: Global insights from localized chaos	Wolf, Blair Metabolic aspects of thermoregulation in the heat and how evaporative pathways affect heat tolerance	Clayton, Dale Does allopreening control avian ectoparasites?

3:00-3:30pm Refreshment Break, Columbia Ballroom.

FRIDAY Session B (1:30 pm–3:00 pm)

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Symposia & General Sessions

	Room 8 Georgetown West	Room 9 Georgetown East	Room 10 Gunston East	Room 11 Gunston West	Room 12 Cardozo	Room 13 Fairchild East/West	Room 14 Cabinet
	Breeding Biology	Conservation	Diseases and Parasites	Evolutionary Ecology	Migration & Stopover	Physiology	Biogeography
Mod	Miller, Karl	Strong, Allan	Townsend, Andrea	Olsen, Brian	Diehl, Robert	Grond, Kirsten	Sheldon, Frederick
1:30	Ruhl, Patrick Nursery or Buffet: To what Extent are Worm-eating Warblers Using Early Successional Habitat on Summer Breeding Grounds?	Schepers, Matthew Mitigating the negative effects of road noise on songbird abundance with song playback	Fair, Jeanne California Condor Microbiome	Harvey, Johanna Diversification and distributional limits of avian malaria across contrasting regions of Africa	Muheim, Rachel A unified theory on the use of orientation cues by migratory songbirds	Barve, Sahas Elevational movement patterns drive hemoglobin concentration in Himalayan birds: A Tensing and Hillary story	Cooper, Nathan Light-level geolocation reveals wintering distribution, migration routes, and primary stopover locations of an endangered long-distance migratory songbird
1:45	Davis, Helen Influence of vegetative characteristics on predation and predator assemblage of bird nests.	Swift, Rose Do habitat and risk of predation explain spatial patterning of nests?	Ellis, Vincenzo Temporal variation in avian haemosporean parasite prevalence in relation to host breadth	Jones, Todd Variation in Nestling Body Condition and Wing Development at Fledging Predict Post-fledging, Cause-specific Mortality in the Dickcissel (<i>Spiza americana</i>)	Lemola, Elyse A new hypothesis for explaining differences in winter distributions of male and female ducks in North America	Cornell, Allison Individual variation in chick development at fledging: physiology, morphology, and flight ability	Williams, Heather A Temporally Explicit Species Distribution Model for a Sub-Saharan Avian Migrant, the Common Cuckoo
2:00	Shave, Amanda Does breeding phenology and strength of selection on first egg date vary with environmental conditions in a long-distance migratory songbird, the purple martin (<i>Progne subis</i>)?	Davidson, Benjamin Compromised song performance: an effect of both natural and anthropogenic noise	Paxton, Kristina Comparative Transcriptomics of Hawaiian Amakihi (genus <i>Hemignathus</i>) Populations Experimentally Infected with Avian Malaria	Conway, Meaghan Specialism in tidal marsh sparrows differs across niche axes: Implications for niche evolution in a changing landscape	Lyons, James Autumn migration ecology and biogeography of Red Knots at the Altamaha River Delta, Georgia, USA	Carter, Wales How does dietary linoleic acid affect metabolic rates in European Starlings (<i>Sturnus vulgaris</i>)?	Schrimpf, Michael Mapping Antarctic avian biogeography and species overlap with multi-state occupancy models
2:15	Hevia, Glenda Nest survival of the Two-Banded Plover (<i>Charadrius falklandicus</i>) population in Northern Chubut Province, Patagonia Argentina	Senzaki, Masayuki Traffic noise reduces foraging efficiency in wild owls	van Riper, Charles Geoscape: A new tool for tracking potential zoonotic disease and heavy metal contaminant sources in small wild birds	Friedman, Nicholas Smaller beaks for colder winters: Beak size of Australasian songbirds evolves in response to thermoregulatory challenges, not diet	DeGroot, Luke The relationship between refueling performance, migratory flight calls, weather, and competition at an inland stopover site	Hudon, Jocelyn How rhodoxanthin from exotic shrubs is altering the appearance of colorful birds in North America	Uehling, Jennifer Naturalized Parrots in the United States: Biophysical and Anthropogenic Influences on Their Distribution
2:30	Dor, Roi Breeding on an artificial island: reproductive success of terns in Israel	Woodman, Constance Beyond hacking: A method for creating survival behaviors in conservation release parrots	Shriner, Susan Maternal antibodies to influenza A viruses in Mallards	Fernando, Saminda Dynamics of a hybrid zone between an island endemic and its continental sister species of flame-back woodpeckers in Sri Lanka	Bodey, Thomas Paying the physiological cost – how oxidative stress affects reproduction in a migratory species	Tyrrell, Luke The eyes of flycatchers: A new and unique cell type confers exceptional motion detection ability	Hosner, Peter Evolution of vagility and convergent island gigantism in quail (Aves: <i>Coturnix</i>)
2:45	McRae, Susan Habitat use and thermal challenges to breeding in Atlantic coast King Rails	Strong, Allan The Bobolink Project: Payment for Ecosystem Services for Grassland Bird Conservation	Townsend, Andrea Prevalence, pathogenic potential, and fitness consequences of <i>Campylobacter</i> in migratory crows	Olsen, Brian Matryoshka niches: Niche correlates of hypothesized time since colonization of a novel ecosystem	Diehl, Robert Swainson's Thrushes show little response to winds when negotiating the Gulf of Mexico	Grond, Kirsten Early-life Microbial Colonization and Succession of the Avian Gastrointestinal Tract	Sheldon, Frederick 40 years hacking through the jungles of Borneo: finally, some biogeographic light

3:00-3:30pm Refreshment Break, Columbia Ballroom.

FRIDAY Session C (3:30 pm–5:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	Linking Scientists with Practitioners: Current Anthropogenic Issues and the Best Management Practices and Decision Support Tools for Bird Conservation in Practice	Network Theory in Ornithology	Current and future prospects on avian de-extinction and genetic rescue	Knowing your S#&%: Comparing traditional and next-generation methods for understanding bird diets	Macrosystems Ornithology–Scaling from Individuals to Ecosystems	Metabolic Ecology	Behavior
Mod	Gehring & Dayer	Shizuka & Levin	Johnson & Novak	Welch & Powell	Kelly & Zuckerberg	Boyce & Stager	Pruett-Jones, Stephen
3:30	Ryon, Thomas Managing Bird-Building Collisions at the National Renewable Energy Laboratory	Zonana, David Social networks and behavioral reproductive isolation across a quail hybrid zone	Howard, Jason B10K: The genome sequencing of all extant birds.	Trevelline, Brian Diet of migratory bird nestlings in a riparian habitat revealed by DNA metabarcoding and next-generation sequencing of feces	Bay, Rachael High-resolution “genoscapes” of neotropical migrants elucidate population-level distribution and migration patterns	Jimenez, Ana Rapid changes in cell physiology as a result of acute thermal stress in House sparrows, Passer domesticus.	Potticary, Ahva When maternal strategies are maternal effects: an example with cooperative breeding in a passerine bird
3:45	Chopp, Johnny Planning and Application of Conditions of Approval for Projects Affecting Migratory Birds	Kohn, Gregory Social networks across fission-fusion changes: Temporal organization and reproductive consequences.	Sutton, Jolene Back where they belong: Developing genomic resources to aid reintroductions of an ‘extinct in the wild’ species	Jedlicka, Julie Molecular scatology and high-throughput sequencing reveal bluebirds consuming predominantly herbivorous insects in California vineyards	Jarzyna, Marta Changes in functional and phylogenetic diversity of avian assemblages across continental scales	Gaffney, Ariel Experimental hypobaric alters inter-specific competitive dominance in elevational replacement hummingbird species	Leighton, Gavin Evolution of Sociality Leads to Expanded Call Repertoires in Avian Species
4:00	Howard, Randy Planning and Application of Conditions of Approval for Projects Affecting Prairie Grouse	McDonald, David The breakdown of male-male cooperation in a manakin lek network	Dunn, Peter What genes are important to immunity and survival in the endangered Attwater's prairie-chicken?	Welch, Andreanna Examining dietary overlap in resident and wintering migratory warblers using next-generation metabarcoding of feces	Broadfoot, Kyle Large-scale, remote observations of roosting Purple Martin populations and their emergence behavior	Pollock, Henry Patterns of variation in thermal sensitivity within and between a tropical and temperate bird assemblage	Demko, Alana Male and female signalling during territorial interactions in a Neotropical songbird, the Rufous-capped Warbler (<i>Basileuterus rufifrons</i>)
4:15	PANEL DISCUSSION	Shizuka, Daizaburo Across-year dynamics of population turnover and network structure in a winter society of migrant sparrows	Johnson, Jeff Heath Hen de-extinction: prospects and considerations based on whole genome analysis	Sullins, Daniel Identifying foods of a declining prairie grouse using DNA metabarcoding	Bridge, Eli Macro-scale analysis of Purple Martin roosting populations using NEXRAD	Boyce, Andy Live fast and die young? -- Does resting metabolic rate explain variation in adult survival probability within and across latitudes?	Gow, Elizabeth Parental feeding effort in relation to extra-pair mating and inbreeding: insights from a genetic pedigreed island population of song sparrows
4:30		PANEL DISCUSSION	Camacho, Alejandro De-extinction, legal dualisms, and reframing conservation policy	Wilson Rankin, Erin Using DNA metabarcoding to link avian diets with regulation of canopy food webs in fragmented Hawaiian forests	Buler, Jeffrey A macrosystems examination of stop-over distributions of migrating landbirds using a network of weather surveillance radars	Eddy, Doug Testing models of energetic cost and tradeoffs associated with malaria infection in Dark-eyed Juncos	Berg, Karl Comparative developmental biology of the vocal-flight-respiratory axis in a tropical bird community
4:45			PANEL DISCUSSION	PANEL DISCUSSION	Kelly, Jeff Environmental cues associated with continental-scale avian migration phenology	PANEL DISCUSSION	Pruett-Jones, Stephen Living in a Neighborhood: Comparative Marauding Behavior in Bowerbirds

FRIDAY Session C (3:30 pm–5:00 pm)

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Symposia & General Sessions

	Room 8 Georgetown West	Room 9 Georgetown East	Room 10 Gunston East	Room 11 Gunston West	Room 12 Cardozo	Room 13 Fairchild East/West	Room 14 Cabinet
	Breeding Biology	Conservation	Diseases and Parasites	Evolutionary Ecology	Migration & Stopover	Physiology	Biogeography
Mod	Miller, Karl	Strong, Allan	Townsend, Andrea	Olsen, Brian	Boyle, Alice	Butler, Michael	Sheldon, Frederick
3:30	Miller, Karl Proximity to Road Traffic Depresses American Kestrel Reproductive Performance	Foote, Jennifer Plover Paparazzi: Use of Game Cameras to Improve Nest Monitoring of Great Lakes Piping Plovers	Stanback, Mark The effect of Pro-tocalliphora larvae on the condition of Carolina Chickadee nestlings	Tigano, Anna The genomic basis of bridling and thermal adaptation in a dimorphic seabird	Grunzel, Dave Phenological synchrony during fall migration	Shankar, Anusha Hypothermic hummingbirds—an energy management story	Oliveros, Carl Tectonic collision and uplift of Wallacea triggered the global songbird radiation
3:45	Jenkins, Julianna Are postfledging songbirds selecting different habitat from nesting birds?	Anderson, David Landscape-level influences of Gyrfalcon (Falco rusticolus) occupancy in western Alaska	Ostrow, Emily Birds as potential vectors of Borrelia burgdorferi	Graham, Brendan Immigrant song: Dispersal, cultural diversity, and song variation in duetting male and female tropical birds	Leppold, Adrienne Fire Escapes, Convenience Stores, and 5-star Hotels: Comparing condition of migrant communities to identify stopover site conservation priorities	Freeman, Nikole Does early-life diet shape stress physiology? Insights from '15N and feather corticosterone across life-history stages	Huntley, Jerry A tale of the nearly tail-less: the biogeography of the Crombecs (genus: Sylvieta)
4:00	Sterling, Abby Using habitat features to predict and manage nest success of American oystercatchers and Wilson's plovers along the Georgia coast	Smith, Jennifer Does enrollment in the Safe Harbor Program affect breeding performance of endangered Red-cockaded Woodpeckers?	Hochachka, Wesley 22 years later: long-term dynamics of House Finch populations and virulence evolution in an endemic pathogen	Gadek, Chauncey Ecological and evolutionary consequences of broad elevational ranges in the tropics: a comparison of four songbird species on the Andean west slope	Rakhimberdiev, Eldar The tight fit of refueling and staging time: bar-tailed godwits need more worms at temperate migratory site to cope with climate change in the Arctic	Vitousek, Maren Corticosterone responses predict components of fitness in tree swallows	Guimaraes Capurcho, Joao Marcos Phylogeography of the Neopelma genus (Tyrant-manakins), connecting the Amazon, Cerrado, and Atlantic Forest histories
4:15	Williams, Madison Laying-sequence Variation in Yolk Carotenoids and Egg Characteristics in the House Sparrow (Passer domesticus)	Larned, Archer Nest microhabitat differences of a critically endangered ground nesting bird in native vs. altered habitat	Bush, Sarah The Life On Birds: Evolution of Feather Lice on Songbirds	Dial, Ken Effects of predation on the acquisition of flight ability during ontogeny in altricial birds	Smith, Joseph Phenological matching drives annual cycle timing in a long distance migratory shorebird	Elting, Rosalee Can Hummingbirds Increase Compensatory Nectar Consumption during Extreme Energetic Demand?	Chen, Chuanwu The effects of seasonal changes, migratory versus resident status, and island characteristics on the spatial structure of bird communities
4:30	Krauss, Nicole Resource based maternal effects in the Black-throated Blue Warbler (Setophaga caerulescens)	Guerrero, Simon Artificial nests and perches as tools for research, conservation and education	Herman, Jordan Tri-trophic ecology of native nest flies (Philornis trinitensis) in grassquits and mockingbirds of Tobago	Gleditsch, Jason Rapid evolutionary change of introduced forest birds on the Hawaiian island of Oahu	Schummer, Michael Weather Severity Indices For Projecting Changes in Autumn-Winter Distributions of Dabbling Ducks in the Mississippi and Atlantic Flyways During the Twenty-First Century	Garcia, Sarah Functional morphology of the avian syrinx: A comparative histological analysis of the syrinx in select passerines	Andersen, Michael Molecular phylogeny and biogeography of kingfishers (Alcedinidae)
4:45	Van Dellen, Amanda Too close for comfort?: A long term investigation of Black Brant nest survival, density-dependent effects and changing threats	Burnett, Joe Results Of A 20-Year California Condor Release Effort In Big Sur, CA	Salgado-Ortiz, Javier Incidence of hematozoa in a loggerhead shrike (Ianius ludovicianus) population from central Mexico.	Sumasgutner, Petra Habitat-linked fine-scale genetic structure, foraging behaviour and demographic responses to land-use changes in the Eurasian kestrel	Petrauski, Lori Changes in spring arrival dates of 117 bird species over 127 years in West Virginia	Butler, Michael Biliverdin levels are more closely related to nutritional variables than either immune challenges or oxidative damage	Cracraft, Joel Global avian biogeography: a test of two worldviews

SATURDAY Session A (10:30 am–12:00 pm)

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Symposia & General Sessions

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	Identifying unifying factors driving bird population declines: are life history traits all that matter?	Present research in ecology and conservation of birds in Mexico	Big Data Ornithology	Beyond the Treaty: The Future of Migratory Bird Conservation in North America	Applications of BBS	Systematics & Taxonomy	Breeding Biology
Mod	Gow & Michel	Ortiz-Pulido & Villasenor	Lepczyk & La Sorte	Levin & Allen	Sauer, John	Barrowclough, George	Augustine, Jacqueline
10:30	Gow, Elizabeth Introduction to the symposium: "Identifying unifying factors driving bird population declines: are life history traits all that matter?"	Villaseñor-Gómez, Jose Fernando Science and bird conservation in Mexico: the role of The Sociedad para el Estudio y Conservación de las Aves en México CIPAMEX (1947-2015)	La Sorte, Frank Advancing our understanding of avian migration ecology through Big Data	Madison, Mark History Leading to the Migratory Bird Treaty: The Battle for Birds, a Century of Bird Destruction Prior to 1916.	McClung, Maureen Impacts of shale gas development on breeding bird populations in the eastern United States	Tsai, Whitney Next-generation sequencing of museum skins uncovers Mexican endemic bird lineages	Giese, Jordan Factors Influencing Nest Survival of White-tipped Doves in the Lower Rio Grande Valley, Texas
10:45	Riding, Corey What do we know about unifying factors for bird vulnerability to anthropogenic collisions?	Arizmendi, Maria del Coro Hummingbird Conservation in Mexico: the national Protected Areas System	Tingley, Morgan Filling the Grinnellian niche: Capitalizing on Big Data to understand long-term range dynamics	Kennedy, Judith Migratory Bird Conservation Milestones in Canada	Mahony, Nancy Comparing grass-land bird population trends between native prairie and regional BBS – is it all about agriculture?	Salter, Jessie The evolution of bilateral ear asymmetry among Typical Owls (Strigidae)	Nemes, Claire Microhabitat use by Cerulean Warblers (Setophaga cerulea) in an experimentally-managed forest in Indiana
11:00	Wilsey, Chad Population Trends for North American Winter Birds	Caballero-Cruz, Pablo Are IBAs a good tool for bird conservation in Mexico?	Hepinstall-Cymerman, Jeffrey Intersection of Big Data, movement ecology, and resource selection research in birds	Loss, Scott Beyond the Treaty: Bird Conservation in Light of New Anthropogenic Threats	Henschell, Max Rising novelty and homogenization of bird communities in the U.S.	Musher, Lukas Phylogenomic analysis using ultra-conserved elements reveals cryptic diversity in the complex Neotropical genus Pachyrhamphus	Behnke, Tessa Reproductive costs for female Greater Sage-grouse in Northern Nevada and Southern Oregon
11:15	Parr, Michael Bringing Back the Forest Birds Challenges and Opportunities	Peterson, A. Townsend Repeat Inventories of Sites to Detect Avifaunal Change	Hurlbert, Allen The macroecology of resource availability for North American bird communities	Brigida, Danielle New Technology and Their Application to Conservation	Sofaer, Helen Validating multi-species distribution modeling under climate change	White, Emma Species Limits in Red Warblers	Walker, Lauren Habitat Use by Adult and Juvenile Black-capped Vireos: Natural Selection and the Importance of Considering a Broader Definition of Breeding Habitat
11:30	Easton, Wendy Common Currents in Ecology, Space and Time of Continental Land-birds in Decline	Duberstein, Jennie Detecting climate change impacts on birds and their habitats in northern Mexico and the southwest United States	Zuckerberg, Benjamin Searching for home: Boreal birds seek out familiar landscapes during irruptions	Francis, Charles Panel: Rising to Future Challenges in North American Migratory Bird Conservation	Haché, Samuel Differences in species diversity and abundance between ARU-based roadside and forest-edge avian point count surveys: implications for the North American Breeding Bird Survey	Maley, James Morphological, genetic, and ecological variation in Stripe-headed Sparrows	Jean-Gagnon, Frankie Sea ice conditions and individual state influence breeding decision in an arctic partial capital breeder
11:45	Arcese, Peter Climate, land use and life history drivers of population growth and distribution and their application to conservation prioritization	Lemus-Ramírez, Katia Are birds reliable bioindicators of remnants effects of mining activity? Study Case in central Mexico.	Lepczyk, Christopher Past, Present, and Future: A Synthesis of Big Data Ornithology		DeLuca, William Population trends influence climate niche breathe and the ability to track climate change for North American birds	Barrowclough, George Phylogeography and geographic variation in the Red-bellied Woodpecker (Melanerpes carolinus)	Augustine, Jacqueline Opportunities and challenges of using leukocyte profiles to determine an individual's health

12:00-1:30pm Lunch Break, on your own.

SATURDAY Session A (10:30 am–12:00 pm)

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Symposia & General Sessions

	Room 8 Georgetown West	Room 9 Georgetown East	Room 10 Gunston East	Room 11 Gunston West	Room 12 Cardozo	Room 13 Fairchild East/West	Room 14 Cabinet
	Movements & Dispersal	Migration & Stopover	Conservation	Habitat Relationships	Models & Methods	Evolution	Abundance, Occupancy & Trends
Mod	Paton, Peter	Gibson, Dan	Roby, Daniel	Saab, Victoria	Shaffer, Terry	Chen, Nancy	Dettmers, Randy
10:30	Evans, Brian Dispersal in the urban matrix: Assessing the influence of landscape connectivity on the settlement patterns of breeding songbirds	Johnson, Erik Assessing Migratory Connectivity of Prothonotary Warblers using Light-Level Geolocators	McLeod, Mary Anne Effects of Tamarisk Defoliation on Southwestern Willow Flycatchers Along the Virgin River	Lees, Alexander Land cover change and the homogenization of the Amazonian avifauna	Zhao, Qing Partitioning the effects of hunting and climate on waterfowl survival	Chen, Nancy Genomic consequences of population decline in the endangered Florida Scrub-Jay	Elliott, Lisa Evaluating the Grasshopper Sparrow as an indicator species for upland prairie birds
10:45	McKinnon, Emily Should they stay or should they go? An automated telemetry system provides insight into nomadic winter movements of Snow Buntings	Tucker, Anna Assessing the influence migratory connectivity and stopover site disturbance on population dynamics using a full annual cycle simulation model	Ahlering, Marissa Death of a Meadowlark: Are Conservation Lands Helping Grassland Bird Populations?	Abraham, Elizabeth Analysis of temporal range change in a neotropical passerine migrant using stable hydrogen isotopes	Thompson, Sarah Autonomous Recording Devices Reveal Complex Patterns in Avian Availability and Site Occupancy	Semenov, Georgy Genomic and morphological analysis of a hybrid zone reveals variable contribution of divergent traits in maintenance of partial reproductive isolation.	Winnicki, Sarah Grasshopper Sparrow (<i>Ammodramus</i> <i>savannarum</i>) breeding density: effect on nest survival, brood parasitism, extra-pair paternity, and cooperative care
11:00	Riggs, Randi Dispersal and Morphometrics of the Hawaiian Coot, <i>Fulica alai</i> , in the Fragmented Wetland Landscape of Oahu	Lam, Lawrence Variation in wing morphology of a trans-hemispheric migratory songbird and its significance in migration performance	Inigo-Elias, Eduardo Conservation of the Cuban Parakeet (<i>Aratinga euops</i>).	dos Anjos, Luiz Loss of understory insectivorous birds functional traits in fragmented forest landscapes.	Drolet, Bruno Estimating biases in nesting phenology predictions	Billerman, Shawn An Integrative Approach to Understanding Hybrid Zone Movement and Introgression in <i>Sphyrapicus</i> Woodpeckers	Hadley, Adam Microclimate predicts within-season distribution dynamics of montane forest birds
11:15	Jones, Landon Spatial Patterns of Seed Dispersal by Two Toucan Species in a Fragmented Tropical Forest Landscape	Gray, Carrie Determining Wintering Areas and Migration Routes of Red-throated Loons and Northern Gannets in Atlantic Offshore Waters Using Satellite Tracking	Martinez, Tanya Conservation practices induce dialect formation in the endangered Puerto Rican amazon (<i>Amazona vittata</i>)	Buchholz, Richard Home Range Use by Male Ocellated Turkeys in Disturbed and Intact Forest Habitats	Ruff, Zack A Model-Based Approach to Estimating Nest Detection Probability	Deane-Coe, Petra The genomic architecture of rapid adaptive divergence in swamp sparrows	Reader, Lindsey Ecological Determinants of Nestbox Occupancy and Reproductive Success in the Western Bluebird (<i>Sialia mexicana</i>)
11:30	Stahl, Justyn Sex-specific natal dispersal in the San Clemente Loggerhead Shrike	Thorup, Kasper Seasonal movements during the non-breeding season	Cox, Andrew The search for pragmatic professional optimism in avian conservation	Enslow, Chelsea Blood parasites and body fat reveal subtle effects of anthropogenic disturbance on an early successional species	Rigby, Elizabeth Evaluating performance of bird abundance estimators: a simulation including variability in detection	Shultz, Allison Evolution of the Innate Immune System Across the Bird Tree of Life	Jackson, Jerome Dynamics of Woodpecker-Staring interactions: A comparison of Old World and New World species and populations
11:45	Paton, Peter Assessing near-shore and offshore movements of Piping Plovers in southern New England	Gibson, Dan Full life cycle population model for an imperiled migratory shorebird suggests variable associations between winter habitat conditions and breeding season survival	Roby, Daniel Cormorants and threatened salmon in the Columbia River Estuary: a management conundrum	Hunt, Anjolene Forestry and conspecific attraction affect habitat use and selection by Canada Warblers (<i>Cardellina canadensis</i>) at multiple spatial scales	Shaffer, Terry Is The Waterfowl Breeding Population And Habitat Survey Conducted Too Early For Late-nesting Duck Species?	Griffin, Josie Population differentiation and evidence of adaptive divergence in subspecies of Song Sparrow (<i>Melospiza melodia</i>)	Dettmers, Randy Mountain Birdwatch: assessing changes in abundance of high-elevation songbirds using citizen science data in the Northeastern US

12:00-1:30pm Lunch Break, on your own.

SATURDAY Session B (1:30 pm–3:00 pm)

NOTE: Only the presenting author is listed in this program due to space constraints. Please refer to the Conference App or the Abstract PDF for the full list of authors for each presentation.

Symposia & General Sessions

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	Identifying unifying factors driving bird population declines: are life history traits all that matter?	Present research in ecology and conservation of birds in Mexico	Cutting Trees to Save Birds: Integrating Science and Forest Management for Landscape-scale Bird Conservation	What do long-term studies reveal about the biology and conservation needs of tropical birds?	Climate	Songs & Vocalizations	Breeding Biology
Mod	Gow & Michel	Ortiz-Pulido & Villaseñor	Rohrbaugh & Larkin	Brawn & Faaborg	DeLuca, William	Benedict, Lauryn	Wheelwright, Nathaniel
1:30	Gonzalez, Ana Energetic importance of forest vs shade-grown coffee as winter habitat for Neotropical migrants	Chapa-Vargas, Leonardo Anthropogenic effects on Central Mexican semiarid scrubland birds; from the molecular level: a six-year study	Buehler, David Changing perspectives on the role of forest management in North American bird conservation	Boyle, Alice The current and future effects of climatic variation and change on tropical frugivores	Abernathy, Heather Examining the Effects of Historic Precipitation Patterns on Current Songbird Abundance	Stiffler, Lydia Diel Variation in Vocalization and Detection Rates of King and Clapper Rails in Virginia Intracoastal Waterways	Smart, Wayne Seabird Colony Decline, Nesting Performance, Human Harvest, and Invasive Predators in the Southern Grenadine Islands
1:45	Stratford, Jeffrey Myoglobin concentration in flight muscle predicts flight endurance in Neotropical birds: implications for ecology and evolution	Salgado-Ortiz, Javier Bird diversity and abundance on two different avocado plantation landscapes in Michoacan, Mexico	McNeil, Darin From Touch-down to Take-off: Breeding season habitat needs for Golden-winged Warblers		McDermott, Molly Long-term impacts of climate change on breeding bird phenology and productivity in the Laurel Highlands of Pennsylvania	Wynia, Amy How to Best Detect Magellanic Woodpeckers near the Southern End of the World	Young, Aaron Seasonal fecundity and post-fledging survival and habitat selection of Henslow's Sparrow
2:00	Sherry, Thomas Evolutionary specialization in a changing world: are resident tropical insectivores at greater risk than previously thought?	Bravo-Cadena, Jessica Priority conservation areas taking into account present forest cover and future Climate Change in central Mexico	Heggenstaller, Daniel Building the habitat pipeline: The role of forest management in diversifying forest structure at multiple scales	Blake, John Long-term changes in bird populations in lowland forest of eastern Ecuador	Raquel, Amelia Reproductive consequences of climate variability: evidence for species-specific responses to spring phenology and cross-seasonal effects	Lohr, Bernie Vocal errors and inferences about the song learning process in songbirds.	Biancalana, Renata Breeding biology of the Sooty Swift (<i>Cypseloides fumigatus</i>) and White-collared Swift (<i>Streptoprocne zonaris</i>) in south-eastern Brazil
2:15	Bayne, Erin Habitat selection by Burrowing Owls in prairie Canada across life stages and scales: What is the right conservation strategy when data are contradictory?	Ortiz-Pulido, Raúl Threatened birds in Mexico: switching in a climate change time	King, David Habitat Selection of Nesting and Fledgling Wood Thrushes in Massachusetts		Renton, Katherine Resilience of food and cavity nest-site resources for canopy birds to low-level hurricane disturbance: impacts of Hurricanes Jove and Patricia in tropical dry forest	Hannah, Kevin Being civil: Common Nighthawk activity patterns at the northern limit of the breeding range and recommendations for surveys.	Aborn, David Differences Between First and Second Broods of Tree Swallows in Tennessee
2:30	Streby, Henry Oversimplification of habitat associations leads to unnecessary conflict and counterproductive conservation and management actions	Villaseñor-Gómez, Laura Eastern migratory bird species records in western Mexico	Ritterson, Jeffrey Foresters for the Birds: Realizing Habitat Management Objectives for Birds in Northeastern Forests	DuVal, Emily Long-term quantification of the strength of sexual and natural selection on complex cooperative behavior in the lance-tailed manakin	Anderson, David Trophic Influence of Ocean Warming on Breeding Success of Nazca Boobies	Schreffler, Lisa Effect of noise from periodical cicada emergence on avian communication strategies	Mika, Markus Reproductive output, parental and juvenile condition, and life history in Flammulated Owls
2:45	Hache, Samuel Leveraging temporally sparse data to identify possible causes for population change in boreal forest bird communities	Diaz, Remedios Nava Urbanization and birds in Mexico: current knowledge and perspectives	Raybuck, Douglas Radio-tracking reveals survival, movements, and habitat selection of post-fledgling Cerulean Warblers in a managed forest landscape		Wethington, Susan Migration strategies and environmental factors influence annual survivorship in western USA hummingbirds	Rivera-Gutierrez, Hector Does song-learning play a role in acoustic adaptation to urban environments?	McNeil, Shannon Cuckoos attracting mates: Who coos for who?

3:00-3:30pm Refreshment Break, Columbia Ballroom.

SATURDAY Session B (1:30 pm–3:00 pm)

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Symposia & General Sessions

	Room 8 Georgetown West	Room 9 Georgetown East	Room 10 Gunston East	Room 11 Gunston West	Room 12 Cardozo	Room 13 Fairchild East/West	Room 14 Cabinet
	Movements & Dispersal	Migration & Stopover	Conservation	Habitat Relationships	Foraging & Food Habits	Evolution	Abundance, Occupancy & Trends
Mod	Lloyd, John	Green, David	Cooper, Robert	Saab, Victoria	Mora, Miguel	Harvey, Michael	Vilella, Francisco
1:30	Williams, Emily Grasshopper Sparrows on the move: patterns and consequences of within-season breeding dispersal in a declining grass-land songbird	Turbek, Sheela Patterns of divergence in wing morphology and stable isotope signatures across three barn swallow hybrid zones	Barnas, Andrew Evaluating Behavioral Responses of Lesser Snow Geese to Unmanned Aircraft Surveys	Roach, Melissa Breeding bird response to pine-savanna and woodland restoration in the Ozark-Ouachita Interior Highlands	McClenaghan, Beverly Diet and prey selection of the Barn Swallow, a declining aerial insectivore	Benham, Phred Genetic divergence predicts the degree of physiological divergence in salt marsh Savannah Sparrows	Fleishman, Erica Comparison of statistically rigorous methods for estimation of avian species richness in the Great Basin
1:45	Perlut, Noah First year survival and natal philopatry in migratory grass-land songbirds	Cabrera-Cruz, Sergio Most nocturnal migrant birds of the world are exposed to artificial lights during migration	Aldredge, Robert Translocations reverse high hatching failure in a small, isolated woodpecker population	Merrill, Loren Landscape and life history: what factors influence condition in adult and nestling birds?	McCoskey, Dana Molecular identification of the wood thrush diet and validation of a protocol for studies of avian diets	Hanson, Michael Reconstructing the skull of Hesperornis regalis: The first three-dimensional model of a Cretaceous toothed bird with insights into early avian functional morphology, plesiomorphy, and convergence	Pintaric, Alice The impact of land use on Bobolink occurrence, abundance, and reproductive outcome in a shallow soil alvar in Ontario, Canada
2:00	Elizondo, Elisa American Woodcock (Scolopax minor) Movement Ecology and Habitat Selection in Louisiana, USA	Pedersen, Lykke To go or not? Investigating cues determining timing of songbird migration	Greenwald, Noah Recovery of Birds Under the Endangered Species Act	Styring, Alison Bird community interaction between native forest fragments and Acacia mangium plantation in Borneo	Ladin, Zachary Provisioning picky eaters: differences in parent-nestling dietary niche-space overlap in an urban avoiding and urban adapting species.	Liu, Yang Toll-like receptor (TLR) evolution in Anatidae	Tozer, Douglas Marsh bird occupancy dynamics, trends, and conservation in the southern Great Lakes basin
2:15	Brown, Morgan Blackpoll warblers (Setophagia striata) make regional-scale, non-migratory movements during fall migration	Aispuro, Armando Evaluating Stopover Resource Use by Spring Migrants in Apalachicola Bay Using Stable Isotope Analysis	Kent, Gina A snapshot of the movements of White-crowned Pigeons satellite-tracked in Florida and the Caribbean.	Sparks, Rob Avian Response to a Spruce Beetle Epidemic in a Southern Rocky Mountain Spruce-fir Forest	Symons, Stephanie Atlantic Puffins and Razorbills Use Several Strategies to Partition Resources in Atlantic Canada	Feo, Teresa The development of feather shape and the evolutionary origins of the modern asymmetrical flight feather	Stuber, Erica A Bayesian model for assessing multi-scale species-habitat relationships
2:30	Hall, Laurie Gene flow and connectivity of black rails following a century of wetland loss in San Francisco Bay	Deppe, Jill Exploring broad-scale songbird migration patterns in Cuba and the Yucatan Peninsula to inform international conservation priorities	Awan, Mahmood Implementation of bird's protection law: A step for conservation of migratory birds	Belleny, Danielle An Evaluation on the Effects of Restoration on Nesting and Brood-Rearing Success of Northern Bobwhite in North-Central Texas	Urmy, Samuel Confronting models of central-place foraging in seabirds with data from a high-resolution radar	Kearns, Anna Speciation reversal in ravens: genomic evidence of mosaic genomes in western North America	Davis, Kristin Integration of weather, vegetation and topography to understand grass-land bird abundance on Colorado's shortgrass steppe
2:45	Lewis, William Changes in Gut Microbiota of Migratory Passerines during Stopover along the Northern Gulf Coast	Sosa, Alejandro Peregrine Falcon Migration in Cabo de San Antonio, Pinar del Rio province Cuba	Cooper, Robert Application of structured decision making in development of an avian monitoring network for the Gulf of Mexico	Saab, Victoria Avian Occupancy Relationships to Prescribed Fire in Dry Forests of Western North America	Michael, Nathan Sulids, Stable Isotopes and Sexual Ornaments: Links between foraging and carotenoid ornamentation in the Brown booby	Harvey, Michael Contrasting evolutionary histories between birds of upland and flood-plain forest in the Amazon	Baumgardt, Jeremy Using Occupancy Data to Detect Phenological Changes in Avian Populations

3:00-3:30pm Refreshment Break, Columbia Ballroom.

SATURDAY Session C (3:30 pm–5:00 pm)

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Symposia & General Sessions

	Room 1 International Ballroom West	Room 2 International Ballroom East	Room 3 Jefferson East	Room 4 Jefferson West	Room 5 Lincoln East	Room 6 Lincoln West	Room 7 Monroe
	Identifying unifying factors driving bird population declines: are life history traits all that matter?	Present research in ecology and conservation of birds in Mexico	Cutting Trees to Save Birds: Integrating Science and Forest Management for Landscape-scale Bird Conservation	What do long-term studies reveal about the biology and conservation needs of tropical birds?	Climate	Songs & Vocalizations	Breeding Biology
Mod	Gow & Michel	Ortiz-Pulido & Villasenor	Rohrbaugh & Larkin	Brawn & Faaborg	DeLuca, William	Benedict, Lauryn	Wheelwright, Nathaniel
3:30	Stutchbury, Bridget Migratory Networks and Full-life Cycle Modelling in Migratory Songbirds	Sosa-López, J. Roberto Seasonal variation in male and female White-bellied Wren acoustic responses to conspecific and heterospecific songs	Breshock, Barbara Cerulean Warbler: Forester Perspective	Stouffer, Philip Beyond forest fragmentation: Abundance declines in Amazonian bird species within undisturbed rain-forest in Amazonian Brazil over a 30 year interval	Powers, Donald Will Climate Change Limit Hovering in Hummingbirds?	Baer, Alex Acoustic rhythm in woodpeckers: Is there a geographical variation of mechanical drums and rattle calls in Picoides?	Jara, Rocío Nesting strategies of birds in the world's southernmost forests: the impact of a novel invasive predator
3:45	Pearce-Higgins, James The role of species traits in driving variation in population trends between habitats	Berlanga, Humberto Bird Conservation and Citizen Science in México	Larkin, Jeffery Living the dream: a partnership to effectively implement landscape-scale bird conservation across private and public forestlands in Pennsylvania		Rubenstein, Madeleine Phenological Overlap & Asynchrony in Migratory Birds as a Consequence of Climate Change	Acheson, Nicholas Repertoire size and plasticity in Red-eyed Vireo songs	Cummins, George Productivity of the forest bird community at Hakalau Forest National Wildlife Refuge, Hawai'i
4:00	Sekercioglu, Cagan Impacts of bird declines on avian ecological function and ecosystem services	Feria, Teresa Assessing the usefulness of natural protected areas in a changing world: climate change effects on hummingbird distribution	Fearer, Todd Achieving a Dynamic Forest Landscape in the Appalachians: bridging science, implementation, and capacity	Toms, Judith Long-term dynamics of a Puerto Rican bird community	Sutton, Alex Climate-driven carry-over effects on cached food quality and reproductive success of a boreal passerine	Hasson, Rachel Fly By Night: Nocturnal Flight Calling Behaviour in Migrating Passerines	Newbrey, Jennifer Seasonal Variation in Yolk Carotenoid Concentrations and Egg Metrics in Eastern Bluebirds
4:15	Michel, Nicole Interspecies variability in responses of aerial insectivorous birds to agricultural conversion, pesticides, and climate in Canada's Prairie Pothole region	PANEL DISCUSSION		Brawn, Jeff What do 35 years of sampling tell us about the population biology of tropical birds?	Carver, Amber Weather radar data correlate to hail-induced mortality in grassland birds	Garcia, Natalia Vocal vs. genetic variation within species with and without vocal learning	Hruska, Jack Reproductive Biology of the Sapayoa (Sapayoa aenigma), the 'Old World suboscine' of the New World
4:30	PANEL DISCUSSION		PANEL DISCUSSION	PANEL DISCUSSION	Godar, Alixandra Rangewide assessment of the influence climate change on lesser prairie-chicken population persistence	Homberger, Dominique Towards an integrated understanding of songbird vocalization through micro-dissection and 3D modeling and animation	Riecke, Thomas Long-term effects of nest predation on future reproductive investment
4:45					Shiple, Amy Escaping the winter: behavioral plasticity in snow burrow use of a gallinaceous bird	Benedict, Lauryn Multiple commonly used measures of bird song complexity are uncorrelated within a single species	Wheelwright, Nathaniel Differential sensitivity to weather in nestlings of two co-occurring songbird species

SATURDAY Session C (3:30 pm–5:00 pm)

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Symposia & General Sessions

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	Movements & Dispersal	Migration & Stopover	Conservation	Habitat Relationships	Foraging & Food Habits	Evolution	Abundance, Occupancy & Trends
Mod	Lloyd, John	Green, David	Cooper, Robert	Latif, Quresh	Mora, Miguel	Wiley, Anne	Vilella, Francisco
3:30	Hagemeyer, Natasha Pre-dispersal movement patterns and social networks in the cooperatively breeding Acorn Woodpecker (<i>Melanerpes formicivorus</i>)	Cooper-Mullin, Clara Does physiological condition drive behavioral decisions of passerines on an offshore stopover site?	Leston, Lionel How well do local-scale cumulative effects models predict boreal bird abundance at larger spatial extents?	Soto, Gerardo Tree senescence as a direct measure of habitat quality: linking red-edge vegetation indices to space use by Magellanic woodpeckers	Titulaer, Mieke Seed selection and winter diet of Baird's Sparrow (<i>Ammodramus bairdii</i>) and Grasshopper Sparrow (<i>A. savannarum</i>) in the Chihuahuan Desert of northern Mexico	Berv, Jacob Post-K/Pg Extinction Lilliput Effect May Influence Avian Molecular Clocks	Greig, Emma The impacts of continent-wide supplemental feeding on bird populations
3:45	Evangelista, Dennis Three-dimensional free-flight kinematics and network analyses of massed Chimney Swifts entering a chimney roost at dusk	Hegemann, Arne Sick birds delay migration – Immune function influences migration phenology	Harrison, Autumn-Lynn Connectivity of threat: A review of entanglement of banded North American birds	Rolek, Brian Long-term effects of four silvicultural treatments on spruce-fir avian communities	Williams, Kelly Linking foraging behavior to environmental variation and parental care	Peters, Jeffrey Speciation with gene flow in <i>Anas</i> ducks	Lesmeister, Damon Estimating Density of Northern Spotted Owls in a Dynamic Landscape
4:00	Loring, Pamela Atmospheric, Temporal, and Demographic Factors Influence Exposure of Common Terns to Offshore Wind Energy Areas in the Western North Atlantic Ocean	McLaren, James Open-water flights by Nearctic-Neotropical landbird migrants: assessing orientation behavior, reaction to wind and storm effects	Fraser, Kevin Age-related patterns of spring migration timing and performance in a trans-hemispheric migratory songbird	Blake, Dawn Habitat Ecology of Pileated Woodpeckers (<i>Dryocopus pileatus</i>) in a Managed Forest in Northern California	Black, Allison Diet of Great Black-backed (<i>Larus Marinus</i>) and Herring (<i>Larus Argentatus</i>) Gulls, Tuckernuck and Muskeget Islands, MA	Beckman, Elizabeth Testing the role of interspecific introgression across elevation and geography in the South American siskins.	Green, Adam Evaluating Efficacy of Fence Markers in Reducing Greater Sage-Grouse Collisions
4:15	Ricca, Mark Pinyon and Juniper Encroachment into Sagebrush Ecosystems Impacts Distribution and Survival of Greater Sage-Grouse	Duijns, Sjoerd Speed and stopover duration in Arctic breeding shorebirds: contrasting spring and autumn patterns	Gonzalez, Hiram Exploring the habitat characteristics and landscape patterns on terrestrial bird assemblages in Cuban archipelago	Griffin, Cody A range-wide assessment on the influence of anthropogenic structure dispersion and land cover patch size on lesser prairie-chicken lek attendance	Eldermire, Charles A five-year crowd-sourced census of nestling provisioning via livestreaming cameras at a wild Red-tailed Hawk nest: new insights on annual prey variation and parental investment.	Stabile, Frank Identification of four genes involved in the development of feathers but not scales in birds	Garton, Edward Estimating Male Sage-Grouse Population Abundance by Stratified-Random Sampling of Sage-Brush Spatial Units Using Lek Counts
4:30	Hallworth, Michael The strength of migratory connectivity affects demography of two Neotropical migratory songbirds	Carlisle, Jay Migratory Connectivity of Long-billed Curlews Across their Range	Bailey, Brett Habitat-specific abundance and survival of Wood Thrushes in agroforestry landscapes in Honduras	Reese, Jessie Abundance and body condition of a Neotropical migratory bird overwintering in mangrove forests in Colombia	Mora, Miguel Use of stable isotopes (¹³ C and ¹⁵ N) to determine seasonal variation and shifts in diet composition of the endangered Attwater's prairie chicken (<i>Tympanuchus cupido attwateri</i>) in Texas	Vickrey, Anna Domestic pigeon's checkered past: a link between wing color patterning, introgression, and hereditary blindness	Johnson, Amy Modelling the breeding distribution of Loggerhead Shrikes (<i>Lanius ludovicianus</i>) in Southeastern U.S.
4:45	Lloyd, John Patterns of seasonal movement and space use among Mangrove Cuckoos	Green, David Mortality across the annual cycle: the winter and breeding seasons are as hazardous as migration for yellow warblers	Somershoe, Scott Eastern Golden Eagles wintering in Tennessee – Tree hugging forest dwellers	Latif, Quresh Avian relationships with wildfire at two dry forest locations with different historical fire regimes		Nietlisbach, Pirmin Heterozygosity is heritable, affects fitness, and correlates with song complexity in song sparrows	Vilella, Francisco Distance in the dark: use of silent and playback methods to estimate abundance of the endangered Puerto Rican Nightjar in the coastal dry forests of Puerto Rico

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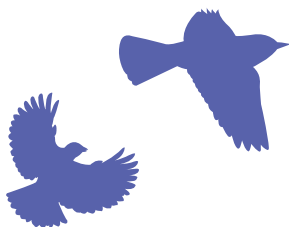
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