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COFFEE BREAK

# Wednesday, Early Afternoon Session

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Room	Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Session	<b>Symposium Biodiversity Mediated Trade-offs in Agroecosystems: When Do Birds Help or Hurt Farmers? (Pejchar &amp; Kennedy)</b>	<b>Evolution</b>	<b>Conservation</b>	<b>Migration &amp; Stopover</b>	<b>Symposium Social Dynamics in Interspecific Interactions (Johnson &amp; Shizuka)</b>	<b>Symposium Avian Biology and the Annual Life Cycle: Shorebirds as Models to Understand Dynamic Boundaries (Gurney &amp; Ruthrauff)</b>
1400	Net Effects of Birds in Agroecosystems  <i>Pejchar L, Clough Y, Ekroos J, Nicholas K, Olsson O, Ram D, Tschumi M, Smith H</i>	*A Tale of Two Transects: Sexual Selection Across a Hummingbird Hybrid Zone  <i>Myers BM, Rankin DT, Brelsford A, Burns KJ, Clark CJ</i>	Extinction Debt and Species Credit in Tropical Forest Bird Communities: Conservation Implications for Two Biodiversity Hotspots  <i>Newmark WD</i>	*A Range-Wide Geolocator Project Fills Critical Knowledge Gaps of Our Understanding of the Full Annual Cycle of Cerulean Warblers  <i>Raybuck DW, Buehler DA, Boves TJ, Larkin JL, Stoleson SH, Bulluck LP, George GA, Kearns LJ, Slankard KG, Petzinger S, Cox JJ, Mylecraine KA</i>	Heterospecific Sociality: How Cooperation, Competition, and Communication Across Species Shape Avian Behavior  <i>Johnson AE</i>	Can Stable Isotopes Help Identify Links Between Wintering, Migration, and Breeding Areas of Semipalmated Sandpiper?  <i>Gurney KE, Mizrahi DS, Alisauskas RT</i>
1415	Strategies for Navigating Trade-Offs Between Avian-Mediated Services and Disservices Affecting Food Production and Safety  <i>Kennedy CM, Latimer CE, Smith OM, Taylor JM, Owen JP, Rankin E, Snyder WE</i>	Cultural Evolution Promotes Rapid Character Displacement in Sympatric Crossbills  <i>Porter CK, Benkman CW</i>	*Cross-Scale Interaction Effects of Climate and Forest Patch Size on the Persistence of Forest-Interior Birds  <i>Chaudhary A, Gutzwiller KJ</i>	Phenology of the Purple Martin Annual Cycle  <i>Kelly JF, Horton KG, Stepanian P</i>	Learning to Join the Information Web  <i>Magrath RD, Ratnayake C, Radford A, McLachlan J, Igic B, Potvin D</i>	Migratory Dynamics of Beringian Dunlin on the East Asian-Australasian Flyway  <i>Lancot RB, Lagasse BJ, Yezerinac S, Brown S, Kendall S, Latty C, Liebezeit J, McGuire RL, Robards M, Saalfeld ST, Slaght J, Wunder M</i>
1430	Trade-Offs Between Ecosystem Services and Disservices Provided by Birds Covary with Agricultural Intensification in the US  <i>Latimer CE, Smith OM, Owen J, Snyder W, Kennedy CM</i>	The Relative Roles of Natural Selection and Sexual Selection in Speciation in the Tanagers  <i>Price-Waldman RM, Demery AJ, Mason NA, Shultz AJ, Title PO, Burns KJ</i>	*Experimental Forest Fragmentation Alters Interaction Networks of Amazonian Mixed-Species Flocks  <i>Rutt CL, Mokross K, Stouffer PC</i>	Conservation Implications of a Migratory Network for the Common Nighthawk  <i>Knight EC, Harrison A, Scarpignato AL, Van Wilgenburg SL, Bayne EM, Marra PP</i>		Movement Patterns of Arctic-Breeding Shorebirds During Post-Breeding and Southbound Migration  <i>Saalfeld ST, Lancot RB, Brown S, Lamarre J, McGuire R, Ruthrauff D, Elliot K, Latty C</i>
1445	*Understanding Food Safety Risks Associated with Wild Birds: a Meta-Analysis and Conceptual Framework  <i>Smith OM, Owen JP</i>	Pleistocene Glacial Cycles and the Relative Ease of Speciation with Periodic Gene Flow  <i>Linck EB, Battey C</i>	Forest Management, Habitat Conservation and Monitoring Northern Goshawks in Southeast Alaska  <i>Titus K</i>	Conservation in the Context of Migratory Connectivity: A Golden-Winged Warbler Case Study  <i>Roth AM, Buckardt Thomas A</i>	Sister, Sister: Song Recognition and the Role of Early Experience in Sympatric Zonotrichia  <i>Hudson EJ, Shizuka D</i>	Migratory Connectivity of a Declining Boreal Shorebird, the Lesser Yellowlegs  <i>Christie KS, McDuffie L, Johnson JA, Taylor A</i>
1500	Managing Wild Birds for Strawberry Production, Pest Control, and Food Safety Outcomes in the California Central Coast  <i>Olimpi EM, Garcia K, Gonthier D, Karp DS</i>	Early Stage of the Speciation Process: Two Coloration Genes Underlie Species Differences in a Pair of Capuchino Seedeaters (Sporophila)  <i>Estalles MC, Campagna L, Rodriguez Cajarville MJ, Tubaro PL, Lovette I, Lijmaer DA</i>	*Grassland Bird Response to Spring Cover Crops in an Agricultural Landscape  <i>Godar AJ, Annis A, Haukos D, Prendergast J</i>	Migratory Pathways, Stopover Locations, and Wintering Destinations of Flammulated Owls Breeding in Colorado  <i>Linkhart BD, Yanco SW, Fox JW</i>	Identifying Functional Roles in Mixed-Species Groups  <i>Vander Meiden LN, Shizuka D</i>	Stopover Ecology of Semipalmated Sandpipers in Maritime Canada  <i>Hamilton DJ, Bliss S, Geldart E, Linhart R, Neima SG, Paquet J, Gratto-Trevor CL</i>
1515	Birds in Fruit Production Systems: Contexts, Outcomes, Costs, and Benefits  <i>Lindell CA</i>	Signal Evolution and Morphological Complexity in Hummingbirds (Aves: Trochilidae)  <i>Eliason CM, Maia R, Parra JL, Shawkey MD</i>	Using Remote Sensing of Avian Habitat to Direct Bird Conservation  <i>Bonfield SB, Schimel D, Stavros N, Questad E, Schneider F, Ferraz A</i>	Full Annual Cycle Ecology of Migratory Birds in the Lower Great Lakes  <i>Tonra CM</i>	Loss of a Keystone Informant Disrupts Information Cascades among Ant-Following Birds in a Tropical Forest Fragment  <i>Pollock HS, Martinez AE, Kelley JP, Touchton JM, Tarwater CE</i>	Connectivity and Staging Site Pollution Effects in a Long-Distance Migratory Shorebird  <i>Morrissey CA, Bianchini K, McKellar A, Newstead D</i>

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## 1730 – 1830 EARLY PROFESSIONAL SYMPOSIUM COOK THEATRE

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Room	Atwood Hall	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4
Session	Genomics	Behavior	Symposium Cross-Pacific Migration: How the Impossible Becomes Commonplace (Ruthrauff & Gill)	Symposium Molecular Ecology is for the Birds: Using Molecular Techniques to Advance Our Understanding of Avian Ecology (Jusino & Lorenz)	Conservation	Migration & Stopover
1400	Genomic Differentiation Along the Speciation Continuum in Three Hummingbird Species Pairs  <u>Henderson EC, Brelsford A</u>	*Plasticity of Aggressive Behavior in Bachman's Sparrows  <u>Niederhauser JM, Ali S, Ziadi MP, Anderson RC</u>	Two Millennia in the Making: Understanding Trans-Pacific Avian Migration  <u>Gill Jr E</u>	An Ornithologist's Toolkit for Molecular Community Ecology  <u>Jusino MA</u>	Captivity and the Gut Microbiota of 'Akikiki: Implications for Conservation of a Critically Endangered Hawaiian Honeycreeper  <u>Costantini MS, Crampton C, Masuda B, Reed F</u>	Quantifying Passage Population Size and Migration Phenology of Endangered Rufa Red Knots Staging in Southwestern James Bay, Ontario, Canada  <u>MacDonald AJ, Smith PA, Friis CA, Lyons JE, Nol E</u>
1415	*Genomics and Color Morphs: Comparison of Whole Genome Sequence Data Between a Melanin-Based and a Carotenoid-Based Species  <u>Shakya SB, Brumfield RT, Sheldon FH</u>	*Exploratory Behavior in Brown-Headed Nuthatches May Indicate Successful Population Reintroduction Strategy  <u>Gray MM</u>	Tropical Convection, Atmospheric Teleconnections, and Possible Links to Wind-Assisted Bird Migration Over the North Pacific  <u>Feldstein SB, Gill RE, Douglas DC</u>		Down in the 'weeds' Searching for Answers to Wood Thrush Fledgling and Juvenile Survival  <u>Hayes SM, Boyd B, Stutchbury BJ</u>	A Comparison of Spring and Fall Body Condition and Hematological Parameters in Two Migratory Songbirds  <u>Hatch MI, Smith RJ</u>
1430	*Genomics of Parallel Divergence and Local Adaptation in Two North American Woodpeckers  <u>Moreira LR, Smith BT</u>	Incubation Behavior of Trumpeter Swans Measured by Continuous Infrared Videography  <u>Delehanty DJ, Bush DA</u>	What Nonstop Trans-Pacific Flights of Shorebirds Mean for Our Understanding of the Energetic and Physiological Limits to Endurance Flight  <u>Guglielmo CG, Lindstr"om</u>	Using Molecular Methods to Identify Fungi at Woodpecker Excavated Cavities in Western Coniferous Forests  <u>Lorenz TJ, Jusino MA, Schilling JS, Andrews E, Seveyka J, Fischer PC</u>	Comparison of Abundance and Annual Return Rates of Wintering Piping Plovers on Natural and Man-Made Beaches in the Mississippi Sound  <u>Darrah AJ</u>	Annual Variation in Use of a Spring Stopover Site by Three Migratory Shorebirds  <u>Tucker AM, McGowan CP</u>
1445	A Genomic Comparison Between Flycatchers Only Distinguishable by Innate Song Differences  <u>Garcia NC, Campagna L, Rush AC, Bowie RC, Lovette IJ</u>	*Deep Snow and Dense Cover Influence Habitat Selection in a Winter-Adapted Bird  <u>Shipley AA, Zuckerberg B</u>	Wind Assistance Along the Trans-Pacific Migration Corridor of the Bar-Tailed Godwit: Past, Present, and Future  <u>Gill Jr RE, Douglas DC, Feldstein SB, Mills CM, Battley PF, Handel CM</u>	*The Nidobiome as a Framework to Understand Microbiome Assembly  <u>Campos-Cerda F, Bohannan BJ</u>	*Patterns of Northern Bobwhite Juvenile Survival on Extensive Prairies and Mixed Agricultural, Grassland, and Wooded Landscapes in Missouri  <u>Sinnott EA, Thompson FR, Weegman MD, Thompson T</u>	What Causes Vagrancy in Some New World Warblers Along the Pacific Coast?  <u>Ralph CJ, Wolfe JD</u>
1500	Gradual Evolution Towards Flightlessness in Steamer-Ducks  <u>Campagna L, McCracken K, Lovette IJ</u>	*Stinky is Sexy: The Major Histocompatibility Complex, Mate Choice and Personal Odor in Leach's Storm-Petrels  <u>Jennings SL, Hoover BA, Sin Y, Nevitt GA, Edwards SV, Ebeler SE</u>	Minding the Gap: An Energetics-Based Perspective on Not Migrating  <u>Ruthrauff DR, Dekinga A, Gill Jr RE, Piersma T</u>	*Is There an Association Between Communities of Wood Decay Fungi and Black-Capped Chickadee Nest Cavities?  <u>Gable CL, Lindsay AR, Jusino MA</u>	Cumulative Effects of Forest Harvesting, Wildfires, and Roads on Olive-Sided Flycatcher Habitat in British Columbia: Implications for Environmental Assessment Processes  <u>Norris AR, De Groot K, Robinson A, Dohms KM, Thomas J, Lee A, Moore K, Martin K</u>	*Migratory Bird Use of Stopover Sites in Midwestern Forests and Urban Habitats During Spring and Fall  <u>Outcalt JM, Buler JJ, Smolinsky JA, Dunning JB</u>
1515	Is Mutation Rate Linked to Diversification in Birds?  <u>Oliveros CH, Faircloth BC</u>	*Dominance Rank and Sex Predict Social Network Position in a Winter Social Groups in a Passerine Bird  <u>Block TA, Shizuka D, Chaine AS, Lyon BE</u>	Rapid Global Differentiation of Migratory Phenotypes in Bar-Tailed Godwits  <u>Conklin JR, Verkuil YI, Piersma T, Fontaine MC</u>	Revealing Unknown Interactions: The Role of Patagonian Tapaculos (Rhinoecryptidae) on the Dispersal of Endemic Truffles  <u>Caiafa MV, Jusino MA, Díaz IA, Smith ME</u>	Responses of State-Endangered Common Terns (Sterna Hirundo) in Ohio to the Use of Artificial Nesting Platforms  <u>Kearns LJ, Shirkey B, Picciuto M, Crouser A, Scott E</u>	What Can Weather Surveillance Radar Data Tell Us About Stopover Duration of Migrating Land Birds?  <u>Buler JJ, Zenzal Jr TJ, Moore FR, CalderiÑn LN, Barrow Jr W, Wilson B</u>
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Room	Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Session	<b>Endocrinology &amp; Physiology</b>	<b>Symposium Undergrad Symposium</b>	<b>Disease &amp; Ecotoxicology</b>	<b>Symposium Permeable Boundaries in Biological and Social Sciences: Human Dimensions in Bird Research and Conservation (Naves Et Al.)</b>	<b>Songs &amp; Vocalizations</b>	<b>Symposium Lessons From Avian Hybrid Zones and the Maintenance of Species Boundaries (Aguillon Et Al.)</b>
1400	Chronic, Sublethal Effects of High Temperatures Will Cause Severe Declines in Arid-Zone Birds During the 21st Century  <i>Conradie SR, Woodborne SM, Cunningham SJ, McKechnie AE</i>	Use of Thermal Imaging for the Study of Seabirds in the Gulf of Alaska: Implications for Management and Conservation  <i>Kidder EA, Sherwin R</i>	*Geographic Variation in Host Immunogenetics and Malarial Parasite Infection in a Catharus Thrush Species Complex  <i>Starkloff NC, Sammons MA, Westerdahl H, Turner WC, Kirchman JJ</i>	How Do Individual Attributes Predict Bird Conservation Behaviors Among Birders in the United States?  <i>Rich TD</i>	Partitioning of Signal Space in a Breeding Warbler Community  <i>Sblendorio JM, Vonhof MJ, Gill SA</i>	Mechanisms Underlying the Maintenance of Species Boundaries: Lessons from Avian Hybrid Zones  <i>Walsh JL, Aguillon SM, Clucas GV</i>
1415	*Will Low Oxygen Slow Range Shifts? Response to a Novel High Elevation Environment from Populations Across a Hummingbird Range  <i>Spence AR, Tingley MW</i>	Machine Annotation of Puaiohi Calls in Environmental Acoustic Recordings  <i>Weyenberg GS, Rumpungworn MD, Howells LO, Paxton KL, Crampton LH, Hart PJ</i>	Regional Variation in the Abundance of House Finches Created the Context that Determined the Impact of an Emerging Pathogen  <i>Hochachka WM, Dhondt AA</i>	Preferences of Birdwatchers and Waterfowl Hunters in the United States and Canada: Results of Discrete Choice Experiments (DCEs)  <i>Fulton DC, Dietsch A, Harshaw H, Raedeke A, Dayer A, Duberstein J</i>	Examining the Effect of Helicopter Noise on Bird Assemblages in Hawai'i's Protected Natural Areas  <i>Gallardo Cruz KV, Paxton KL, Hart PJ</i>	Genetic Architecture and Asymmetric Introgression of Plumage-Related Reproductive Barriers in Hybridizing Birds  <i>Semenov GA, Khaydarov DR, Safran RJ, Taylor SA</i>
1430	*Out in the Cold: a Novel Approach to Understanding the Physiological Drivers of Phenotypic Flexibility in Dark-Eyed Juncos  <i>Stager M, Senner NR, Cheviron ZA</i>	A Comparison Between Traditional and Next Generation Screening Approaches to Characterize Avian Haemosporidian Parasites  <i>Ray S, Henry M, Galen S, Ostrow EN, Dispoto J, Kiziuk L, Weckstein JD</i>	Cross-Ecosystem Subsidies in Acadia National Park: How Invertebrates Can Help Us Understand Mercury Exposure in Songbirds  <i>Jackson AK, Frampton L, Garafalo M, Harris S, Nightingale B, Youre-Moses A</i>	Quantifying the Stability of Birds' Cultural Niches: Changing Public Perceptions of the North American Avifauna  <i>Schuetz JG, Johnston A</i>	*Developmental Experience May Contribute to Adult Female Preferences for Male Mating Signals  <i>Strauss AV, Podos J</i>	Using Comparative Genomics to Investigate Non-Geographic Drivers of Divergence and Introgression in Panamanian Birds  <i>McLaughlin JF</i>
1445	Long-Term Effects of Early-Life Stress on the HPA Axis in a Short- And Long-Lived Bird  <i>Grace JK, Anderson DJ, Angelier F</i>	*Spatial Patterns of Habitat Use of the Sierra Madre Sparrow, Mexican and Endemic Mountain Bird, in Milpa Alta, Mexico City  <i>Savarino-Drago A, Ruvalcaba-Ortega I, Martinez M, Martinez H, Martinez-Molina U, Martinez-Molina Y, Garcia-Loeza S, Rodriguez-Contreras V, Martinez-Molina G</i>	Assessing Halogenated Marine Persistent Organic Pollutants in the Critically Endangered California Condor and Their Marine Mammal Prey  <i>Stack ME, Hoh E, Dodder N, Tubbs C, Vilchis I, Felton R, Johnson J</i>	Minimizing All-Terrain Vehicle Impact in Bird Habitat: Reconciling Harvest and Conservation on Private Land in Western Alaska  <i>Naneng W, Maroney RL, Naneng M, Tinker W</i>	Morphologically, Genetically and Vocally Divergent Warbling Vireo Subspecies Exhibit Indiscriminate Aggression Toward Intruders in a New Contact Zone  <i>Spellman GM, Hammond A, Zhang T</i>	Differences in Introgression Across Two Hybrid Zones in the Great Plains  <i>Billerman SM, Walsh J, Butcher BG, Lovette JJ</i>
1500	Do High-Energy Lifestyles in Birds Promote High Maximal Metabolic Capacities?  <i>Swanson DL, Thomas NE, Zhang Y</i>	*Effects of Lead Exposure on Reproductive Success and Extra-Pair Paternity in a Common Urban Songbird  <i>Hitt LG, Khalil S, Blanchette A, Finkelstein ME, Ribeiro RD, Iverson EN, McClelland SC, Karubian J</i>	The Effects of Climate, Habitat, and Diet on Methylmercury Bioavailability for New York Songbirds  <i>Adams EM, Sauer AK, Lane O, Regan K, Evers DC</i>	Prioritizing Regional Landscapes to Achieve Biological and Social Objectives Through Bird Habitat Conservation  <i>Soulliere GJ, Al-Saffer MA</i>	*What Drives Flexible Signaling? Anthropogenic Noise and Social Context Affect Male House Wren Vocal Behavior  <i>Grabarczyk EE, Vonhof MJ, Gill SA</i>	Evolutionary Genomics of Variable Carotenoid-Based Ornamentation in the Red-Backed Fairywren  <i>Khalil S, Walsh J, Enbody ED, Baldassarre DT, Webster MS, Karubian J</i>
1515	From Shallow to Deep: A Torpor Spectrum in Hummingbirds Uncovered Using Thermal Imaging  <i>Shankar A, Cisneros IN, Thompson S, Graham CH, Powers DR</i>	The Role of Song in Reproductive Isolation in Two Newly Overlapping White-Crowned Sparrow (Zonotrichia Leucophrys) Subspecies  <i>Brooks WE, Wimberger PH, Rouse ML</i>	Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds?  <i>Brasso RL, Rittenhouse KA, Winder VL</i>	Land Trusts and Birds: Partners in Strategic Conservation  <i>Rodewald AD, Swarthout SB, Dayer AA, Rohrbaugh RW</i>	Who is There? Response to Different Type of Territorial Intruders  <i>Sandoval L, Hamzaj T, Bonilla K, Gutierrez I</i>	Hybrid Zones and the Development of Reproductive Isolation in Flooded Versus Terra Firme Forest Birds of the Amazon  <i>Weir JT</i>

# Thursday, Late Afternoon Session

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Room	Atwood Hall	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4
Session	Genomics & Systematics	Behavior	Symposium Cross-Pacific Migration: How the Impossible Becomes Commonplace (Ruthrauff & Gill)	Symposium Molecular Ecology is for the Birds: Using Molecular Techniques to Advance Our Understanding of Avian Ecology (Jusino & Lorenz)	Conservation	Migration & Stopover
1600	Identifying and Characterizing Transposable Element Polymorphisms in the Northern Flicker ( <i>Colaptes auratus</i> ) Species Complex  <i>Hruska JP, Manthey JD</i>	*Provisioning Coordination Increases with Mate Familiarity in a Long-Lived Pelagic Seabird, the Manx Shearwater  <i>Tyson CW, Gillies N, Guilford T, Hull JM</i>	Migratory Patterns of Sooty Shearwaters ( <i>Ardenna Grisea</i> ) Across the Pacific Ocean  <i>Shaffer SA, Harrison A</i>	Detecting Ecosystem Services from Insectivorous Birds  <i>Jedlicka JA</i>	*Where in the World Are Migratory Birds Declining During the Annual Cycle? the Winter Survival of a Near Threatened Shorebird in South America  <i>Herbert JA, Mizrahi D, Taylor CM</i>	
1615	Immigration May Decouple Heterozygosity and Inbreeding in Declining Populations of Florida Scrub-Jays  <i>Nguyen TN, Chen N, Bowman R, Fitzpatrick JW, Clark AG</i>	Investigating the Role of Avian Vocalizations as 'Magic Traits' Using On-Bird Sensors  <i>Tarango CA, Sillett TS, Gomez AJ, Fitzpatrick JW</i>	*Demographic and Distributional Responses by Long-Distance Migratory Shorebirds to the Rapid Loss of Staging Habitat  <i>Chan Y, Lok T, Chung SS, Tibbitts TL, Hassell CJ, Piersma T, Zhang S</i>	Using Molecular Techniques to Study the Diets and Gut Microbiota of Migratory Birds  <i>Trevelline BK</i>	*What Factors Influence Nest Survival of the Endangered Yellow-Headed Amazon?  <i>Tarazona-Tubens FL, Britt CR, Abadi F, Desmond MJ</i>	Movement and Distribution of Red Knots ( <i>Calidris Canutus</i> ) in the Southeastern U.S  <i>Tuma ME, Powell AN</i>
1630	Phylogeny of the Hawaiian Thrushes ( <i>Myadestes</i> ) Based on UCE and Mitochondrial DNA Sequences  <i>Fleischer RC, McInerney N, McIntosh CE, Sonsthagen SA, Olson S, James H</i>	Hierarchical Fear: Predation Risk Has Direct and Indirect Effects on Nestling Growth and Stress  <i>de Zwaan DR, Martin K</i>	Cross-Seasonal Interactions: The Pacific as the World's Greatest Theater of Bird Migration  <i>Piersma T</i>	Using Box-Nesting Birds to Explore Methods in Studying Developmental Immunity and Gut Microbiota  <i>Knutie SA</i>	Effects of Translocation on Burrowing Owl ( <i>Athene Cunicularia</i> ) Survival, Fidelity, and Nesting Rates in Arizona  <i>Doublet D, Desmond MJ, Johnson DH, Abadi F</i>	Movement Patterns and Habitat Use of Endangered Whooping Cranes During Migration Through Canada's Oil Sands Mining Region  <i>Bidwell MT, Conkin JA, Ball J, Brandt DA, Harrell W, Kindopp R, Metzger K, Pearse AT, Wiacek R</i>
1645	Reconciling the Mitonuclear Compatibility Species Concept with Rampant Mitochondrial Introgression  <i>Hill GE</i>	Increased Predator Density Changes Nest Attendance Behavior of Yellow-Headed Blackbirds ( <i>Xanthocephalus xanthocephalus</i> )  <i>Harms TM, Behrens C, Ruff ZJ, Dinsmore SJ</i>		Anthelmintic Drugs Modulate the Acute Phase Immune Response but Not the Microbiome in Wild Song Sparrows  <i>Vaziri GJ, Jusino MA, Brewer MT, Adelman JS</i>	Landscape Matrix and Species Traits Mediate Avian Responses to Forest Fragmentation  <i>Kennedy CM, Marra PP</i>	Revisiting Red-Winged Blackbird Migration: Fine-Scale Temporal and Spatial Movements of Individuals Across Annual Migration  <i>Eshleman MA, Klug PE, Greives TJ, Gillam EH</i>
1700	The Common Yellowthroat Genoscape- a Genomic Approach to Delineating Conservation Units  <i>Bossu CM, Rajbhandary J, Smith TB, Ruegg KC</i>	Parental Behaviors Mediate the Effects of Bird Blow Fly Ectoparasitism on Nestling Wood Thrushes in Suburban Forests  <i>Straley KM, Warren PS, King DI</i>		Assessing the Relationship Between Multiple Paternity and the Cloacal Microbiome in Female Tree Swallows  <i>Hernandez J, McGlothlin JW, Belden LK, Moore IT</i>	*Demographic Consequences of Road Mortality to Snowy Plovers at Gulf Islands National Seashore, FL  <i>Durkin MM, Cohen JB</i>	Age-, Sex-, and Size-Related Differences in the Distribution of Migrating Landbirds on the Northern Gulf Coast  <i>Calderon LN, Zenzal Jr TJ, Barrow W, Wilson B, Buler JJ</i>
1715	A Genomic Investigation of the Potential Despeciation of Deeply Divergent Lineages in a Malagasy Passerine  <i>Perry NL, Block NL, Younger JL, Raheerilalao M, Goodman SM, Reddy S</i>	Testing the Social Intelligence Hypothesis in Wild Birds  <i>McCune KB, Jablonski P, Lee S, Ha RR</i>		Panel Discussion	When Prioritizing Regions for Migratory Bird Habitat Conservation, Quantifying Costs Can Supersede Parametrizing a Population Model  <i>Stanton Jr RA, McGowan CP, Robinson OJ</i>	*Assessing the Potential for Using Weather Radar to Predict Bird Collisions  <i>Elmore JA, Horton KG, Riding CS, O'Connell TJ, Loss SR</i>

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Room	Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Session	Human Dimensions & Policy	Symposium Undergrad Symposium	Urban Ecology	Symposium Permeable Boundaries in Biological and Social Sciences: Human Dimensions in Bird Research and Conservation (Naves Et AL.)	Morphology & Molt	Symposium Lessons from Avian Hybrid Zones and the Maintenance of Species Boundaries (Aguillon Et AL.)
1600	<p>*Wedge-Tailed Shearwater Persistence in Human-Dominated Areas</p> <p><u>Idle JL</u>, <u>Friswold BM</u>, <u>Harmon KC</u>, <u>Price MR</u></p>	<p>*Development, Not Bird Feeders, is Associated with Increased Occupancy of Northern Cardinals in Northern Michigan</p> <p><u>Toner SM</u>, <u>Bonter DN</u></p>	<p>*Investigating the Influence of Polarized Light and Artificial Night Lighting on Bird-Building Collisions</p> <p><u>Lao S</u>, <u>Anderson AW</u>, <u>Blair RB</u>, <u>Eckles JW</u>, <u>Robertson BA</u>, <u>Turner RJ</u>, <u>Loss SR</u></p>	<p>*Aspects of Municipalities Associated with Occupancy and Abundance of Chimney Swifts in Illinois</p> <p><u>Hurd ML</u>, <u>Benson TJ</u>, <u>Ward MP</u></p>	<p>The Role of Diet and Nesting in Bill Shape Diversification of Frugivorous Asian Barbets</p> <p><u>Krishnan A</u>, <u>Souza N</u>, <u>Reddy S</u></p>	<p>Hybridization in Northern Flickers Reveals Loci Associated with Feather Coloration</p> <p><u>Aguillon SM</u>, <u>Lovette IJ</u></p>
1615	<p>If You Build It, They Will Come: Avian Utilization and Predation at a Large-Scale Photovoltaic Solar Facility</p> <p><u>Griffiths JL</u>, <u>Meade DE</u>, <u>Dart JD</u></p>	<p>*Integrating Machine Learning and Citizen Science Data to Generate High-Performing Species Distribution Models for the Globally Vulnerable Gray Tinamou (Tinamus Tao)</p> <p><u>Wiebe RA</u></p>	<p>Urbanization and Elevated Cholesterol in American Crows</p> <p><u>Townsend AK</u>, <u>Staab H</u>, <u>Barker CM</u></p>	<p>Cross-Cultural Considerations in Wildlife Management and Conservation</p> <p><u>Leonetti CC</u></p>	<p>Glare Reduction Properties of Dark Avian Facial Markings</p> <p><u>Lebow CK</u>, <u>Burt DB</u></p>	<p>Cardinals Are Red, Buntings Are Blue; Because They Hybridize, They're Interesting Too!</p> <p><u>Megna LC</u>, <u>Carling MD</u></p>
1630	<p>Year-Round Monitoring Reveals a Unique Seasonal Pattern of Bird-Window Collisions Along the Pacific Coast of North America</p> <p><u>De Groot KL</u>, <u>Porter AN</u>, <u>Norris AR</u>, <u>Huang AC</u></p>	<p>*Modeling Persistent Effects of West Nile Virus on Avian Population Dynamics in the Northeastern United States</p> <p><u>Dupont GL</u>, <u>Bonter DN</u>, <u>Robinson OJ</u></p>		<p>Sustainability in Long-Term Collaborations: The Harvest Assessment Program of the Alaska Migratory Bird Co-Management Council</p> <p><u>Naves LC</u>, <u>Fall J</u>, <u>Tulik C</u>, <u>Pederson M</u>, <u>Keating JM</u>, <u>Fischer J</u>, <u>Schwalenberg P</u></p>	<p>Evolution of Molt-Migration: a Large-Scale Phylogenetic Approach</p> <p><u>Pageau C</u>, <u>Reudink MW</u></p>	<p>Sex Chromosome Inversions May Enforce Reproductive Isolation Across an Avian Hybrid Zone</p> <p><u>Hooper DM</u>, <u>Griffith SC</u>, <u>Price TD</u></p>
1645	<p>Engaging Undergraduate Students in an Authentic Course-Based Research Experience Using Archived Nest Video Footage</p> <p><u>Stracey CM</u></p>	<p>Panel Discussion</p>	<p>Relationships Between Local- And Landscape-Scale Management and Urban Bird Communities Across Six Major Metropolitan Areas: Do Yards Matter?</p> <p><u>Narango DL</u>, <u>Lerman SB</u>, <u>Hall SJ</u>, <u>Hobbie SE</u>, <u>Neill C</u>, <u>Trammell TL</u>, <u>Groffman P</u></p>	<p>Banding Together to Learn and Preserve: 25 Years of Research in Cross-Cultural Western Alaska</p> <p><u>Ely CR</u></p>	<p>Molt-Migration in the Mexican Monsoon: 90 Years of Specimens Reveal a Phenological Mismatch Caused by Anthropogenic Climate Change</p> <p><u>Terrill RS</u>, <u>Tsai WL</u>, <u>Maley JM</u>, <u>Rohwer S</u>, <u>Pimm G</u>, <u>McCormack JE</u></p>	<p>Genomic and Morphological Approaches to Understanding Speciation in Jamaican-Endemic Streamertail Hummingbirds</p> <p><u>Judy CD</u>, <u>Brumfield RT</u>, <u>Graves GR</u></p>
1700	<p>Engaging with Veterinarians to Reduce Cat Overpopulation and Cat Impacts on Wildlife Populations</p> <p><u>Sherwood LJ</u>, <u>Wilson AG</u>, <u>South CS</u>, <u>Roche SM</u>, <u>Luszcz TM</u></p>		<p>Songbirds Alter Their Use of Bird Feeders in Response to Vocalization Playback</p> <p><u>Barron DG</u>, <u>Sarna SD</u>, <u>Middleton RL</u></p>	<p>Human Dimensions Applications in Shorebird Subsistence Harvest and Indigenous Knowledge in Alaska</p> <p><u>Keating JM</u>, <u>Naves LC</u>, <u>Tibbitts TL</u>, <u>Ruthrauff DR</u></p>	<p>Simultaneous Rectrix Molt and Comparative Molt Ecology of Eastern Wood-Warblers</p> <p><u>Mumme RL</u>, <u>Mulvihill RS</u></p>	<p>Ancient and Contemporary Hybridization Amongst Wood Warblers</p> <p><u>Toews DP</u>, <u>Taylor SA</u>, <u>Streby H</u>, <u>Kramer G</u>, <u>Brennan C</u>, <u>Jones A</u>, <u>Lovette IJ</u></p>
1715	<p>Evaluating Bird Feeders as Tools to Connect People with Nature, and Challenges Associated with Middle School Interventions</p> <p><u>Hammond RL</u>, <u>Theimer TC</u></p>		<p>*Effects of Habitat Type on Provisioning Florida Burrowing Owl Space Use and Movements</p> <p><u>Rose EH</u>, <u>Boughton RK</u></p>	<p>Panel Discussion</p> <p><u>Dayer A</u></p>	<p>Bill Size Evolution in Response to Human-Mediated Ecological Change in a Tidal Marsh Songbird</p> <p><u>Benham PM</u>, <u>Bowie RC</u></p>	<p>Assessing Assortative Mating in Hybrid Zones</p> <p><u>Scordato ES</u></p>



\*indicates student presenters eligible for AOS presentation award

LUNCH BREAK

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LUNCH BREAK

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COFFEE BREAK

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COFFEE BREAK



# Friday, Late Afternoon Session

\*indicates student presenters eligible for AOS presentation award

Room	Arteaga Theatre	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4
Session	Conservation	Symposium Long-term Studies of Cavity-nesting Birds: Windows into Environmental Change (Duckworth & Fair)	Migration & Stopover	Symposium Seabirds on the Edge of Two Worlds: Ecology and Conservation of Brachyramphus Murrelets in Marine and Terrestrial Environments (Rivers & Kissling)	Genomics	Behavior
1600	Site Fidelity and Pairing Behavior in a Wintering Population of American Kestrels in North Texas  <u>Biles KS, Bednarz JC</u>	Long-Term Dynamics of Tree-Cavity-Nesting Communities in Temperate and Subtropical Forests	Global Trends in Avian Partial Migration: a Meta-Analysis  <u>Zavaleta ES</u>	Breeding Season Movements and Marine Habitat Use by the Marbled Murrelet in Oregon  <u>Garcia-Heras M, Adrean LJ, Nelson SK, Roby DD, Betts MG, Rivers JW</u>	Population Genomics of Greater White-Fronted Goose  <u>Wilson RE, Sonsthagen SA, Ely CR, Talbot SL, DaCosta JM, Sorenson MD, Scribner KT, Weaver M, Skalos D</u>	Timing of Breeding in American Coots: Bet-Hedging Against Nest Predation When Reproductive Performance Declines with Season  <u>Lyon BE</u>
1615	Life on the Edge: Density and Demography of Marsh Wrens and Seaside Sparrows in Northeastern Florida  <u>Schwarzer AC, Cox WA</u>	<u>Norris AR, Cockle KL, Wiebe KL, Trzcinski MK, Edworthy AB, Martin K</u>	Migration of Buff-Breasted Sandpipers at Two Key Regions in the Mid-Continent: Northern Gulf of Mexico and the Flint Hills  <u>Lyons JE, Andres BA, Penner RL, Stone K, Wolfenbarger LL</u>	Distribution and Use of Freshwater Habitats by Kittlitz's Murrelets on Lakes in the Lower Wood River Lake System, Alaska  <u>Nesvacil KA, Pendleton G, Swaim M, Walsh P</u>	The Long and the Short of It: Linking Genome-Wide Signatures of Selection Across Evolutionary Timescales in Birds  <u>Shultz AJ, Arnold B, Sackton TB</u>	Manipulated Sex Ratios Alter Group Structure and Cooperation in the Brown-Headed Nuthatch  <u>Cox JA, Cusick JA, DuVal EH</u>
1630	Saving the Kiwiku (Pseudonestor Xanthophrys): Recovery Efforts in Maui, Hawaii  <u>Mounce HL, Farmer C, Berry L, Masuda B, Warren C, Berthold L, Duvall F</u>	Population Increases Despite Habitat Saturation: What Can We Learn from Five Decades of Research?  <u>Walters EL, Hagemeyer ND, Barve S, Pesendorfer MB, Koenig WD</u>	Migratory Bird Twilight Ascent and Descent Rates Along the Southwestern Shoreline of Lake Erie  <u>Wellik MJ, Kirsch EM, Sheildcastle M</u>	Seasonal Offshore Distribution and Habitat Use of Brachyramphus Murrelets in Alaska  <u>Labunski EA, Kuletz K, Osnas E</u>	Comparative Genomic Structure Within Alaskan Galliforms  <u>Sonsthagen SA, Wilson RE, Merizon RA, Talbot SL</u>	Helpers Mitigate Negative Effects of Predation Threat in the Cooperatively Breeding Purple-Backed Fairy Wren  <u>Meyer DK, Kinnebrew E, Pruett-Jones S, Johnson AE</u>
1645	Forest Area Required to Support Landbird Population Goals for the Mississippi Alluvial Valley  <u>Twedt DJ, Mini A</u>	Consequences of Long-Term Habitat Change and Resource Selection for Population Limitation in Cavity-Nesting Birds	Migratory Behavior of the Western Burrowing Owl: Connecting Canada, United States, and Mexico  <u>Conway CJ, Wellicome TI, Johnson DH, Conley JL, Lundblad CG, Bruinsma DR, Fisher RJ</u>	Consistent Post-Breeding Movements of Marbled Murrelet from British Columbia to Alaska (2014-2016)  <u>Bertram DF, MacDonald CA, O'Hara PD, Cragg JL, Corcoran R, Greene R, Woo K</u>		
1700	Do Piping Plovers in the Northern Great Plains Function as a Metapopulation & Why Does it Matter for Conservation?  <u>Anteau MJ, Swift RJ, Sherfy MH, Toy DL, Ring MM</u>	<u>Martin TE</u>		Post-Breeding Migration of Kittlitz's Murrelets from the Gulf of Alaska to the Bering Sea and Beyond  <u>Douglas DC, Piatt JF, Arimitsu ML, Madison EN, Kissling ML, Schoen SK</u>		
1715		Panel Discussion  <u>Fair J</u>				

# Friday, Late Afternoon Session

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Room	Summit 5	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
Session	Management & Policy	<b>Symposium</b> <b>Counting Unmarked Birds: Matching Appropriate Sampling and Modeling Techniques with Particular Research Questions (Latif &amp; Valente)</b>	<b>Symposium</b> <b>Wild Birds and the One Health Initiative: Dynamic Boundaries Affect the Health of Birds, Livestock, Humans, and the Environment (Ramey)</b>	<b>Symposium</b> <b>Translational Ecology - Producing Actionable Science (Saunders Et Al.)</b>	<b>Symposium</b> <b>The Future of Global Bird Trait Datasets: A Game-changing Resource for Macroecology, Macroevolution and Conservation Biology? (Tobias Et Al.)</b>
1600	The NSF is Growing Pathways to STEM for Rural Community College Students via Community Partnerships and Intensive Mentoring  <i>Gillespie LM, Heinisch S, Grandgenett N</i>	A General Framework to Integrate Repeated Count and Mark-Resight Data  <i>Rushing CS, Hostetter NJ, Boettcher R, Lyons J</i>	It's Not Just Flowerpots and Tires: Defining the Impacts of West Nile Virus on a Woodland Bird, Ruffed Grouse	Audubon's Vision: Restoring the Gulf of Mexico for Birds and People  <i>Lankford KE</i>	Responses of Bird and Plant Communities to Global Change: Coupled or Decoupled?  <i>Schleuning M</i>
1615	Landscape Composition Explains High Rates of Dispersal in Translocated Lesser Prairie-Chickens  <i>Berigan LA, Aulicky C, Sullins D, Haukos D, Fricke K, Reitz J, Rossi L, Schultz K</i>	The Potential of Citizen Science Data for Population Monitoring  <i>Johnston AA, Strimas-Mackey ME, Hochachka WM, Robinson OJ, Ruiz Gutierrez VV, Miller E, Auer MT, Fink D</i>	<i>Williams LM, Brown JD, Nemeth NM, Hutchinson ML, Helwig MW, Kyle AD</i>	Using Structured Decision Making to Connect Bird Monitoring to Restoration Decision-Making  <i>Adams EM, Fournier AM, Lyons JE, Wilson R, Gleason JS, Brush JM, Cooper RJ, DeMaso SJ, Driscoll MJ, Frederick PC, Jodice PG, Reeves DB</i>	Avian Functional Traits and the Impacts of Climate Change on Ecosystem Function  <i>Pigot AL, Trisos C, Merow C, Tobias JA</i>
1630	The Interactive Effects of Fire and Recreation on Golden Eagles  <i>Davis CM, Heath JA</i>	Scaling Up by Integrating Standardized and Unstandardized, Community Science Count Data: a Case Study in the Upper Mississippi River  <i>Michel NL, Meehan TD, Saunders SP</i>	Urban White Ibises Facing Trade-Offs in South Florida  <i>Welch CN, Hernandez SM, Murray M, Curry SE, Kidd A, Hepinstall-Cyerman J, Lankau E, Yabsley M, Navarra K, Cummings C, Lipp E, Altizer S</i>	A Strategic Plan for Monitoring Birds in the Gulf of Mexico: Translating Stakeholder Values into Priorities  <i>Fournier AM, Lyons JE, Wilson R, Gleason JS, Adams EM, Brush JM, Cooper RJ, DeMaso SJ, Driscoll MJ, Frederick PC, Jodice PG, Reeves DB</i>	How Trait Data Help Improve Avian Biodiversity Forecasts Under Global Change  <i>Zurell D</i>
1645	Duration of Corvid Response to Forest Restoration Thinning: Implications for Conservation of the Threatened Marbled Murrelet  <i>Hagar JC, Waianuheha LK</i>	Designing a Bird Survey for Latin America: The PROALAS Protocol in EBird  <i>Ruiz-Gutierrez VV, Lello-Smith A, Ortega Alvarez R</i>	Lessons Learned from Research and Surveillance Directed at Highly Pathogenic Influenza Viruses in Wild Birds of North America  <i>Ramey AM, DeLiberto TJ, Berhane Y, Swayne DE, Stallknecht DE</i>	Golden-Winged Warbler Conservation: Using Science to Take Action  <i>Fowle MR, LaBarr MS, Barker SE</i>	The Impacts of Diversity and Assembly History on Community Vulnerability  <i>Weeks BC, Tobias JA</i>
1700	Effective Multi-Scale Governance for Migratory Shorebirds: Lessons from the EAAF and an Australian Wetland Site  <i>Hamman EV</i>	Panel Discussion		An Assessment of Ecological Value and Vulnerability in the Bering, Chukchi, and Beaufort Seas  <i>Smith MA, Goldman M, Knight E, Sullender B</i>	Panel Discussion
1715			Panel Discussion	Synthesizing Full Annual Cycle Science and Threats to Drive Conservation and Policy Actions for North American Migratory Birds  <i>Deppe JL, Auer T, Knight E, Langham GM, Marra P, Mackenzie S, Rosenberg K, Smith M, Taylor L</i>	