Wednesday, Morning Session *indicates student presenters eligible for AOS presentation award

| Room | Atwood Hall | Cook Theatre | Summit 1 | Summit 2 | Summit 3 | Summit 4 |
|---------|--|--|--|--|---|---|
| Session | Symposium Understanding and Addressing the Collapse of the North American Avifauna (Marra & Rosenberg) S1 | Symposium Breaking Through Biases: What We've Learned from Female Birds (Odom & Bennett) S2 | Phylogenetics & Phylogeography S3 | Songs & Vocalizations S4 | Biogeography S5 | Birds & Agriculture S6 |
| 1030 | Evidence for Massive Decline in the North American Avifauna Rosenberg KV, Dokter AM, Blancher PJ, Sauer JR, Smith AC, Smith PA, Stanton JC, Panjabi AO, Helft L, Parr M | Extra-Pair Copulations in Passerines: Why Females Matter Stutchbury BJ | *Evolution of Migration in the Nightingale-Thrushes (Turdidae: Catharus) Inferred via Morphometric and Phylogenetic Analysis <u>Halley MR, Klicka J,</u> <u>Catanach TA, Weckstein</u> JD | It's the Same Old Song: Benefits of Song Dialects in the Lapland Longspur Montgomerie RD, Cox A, Mullie A | Montane Biogeography and the Evolution of Disjunct Ranges: a Case Study in the Diglossa Flowerpiercers Hiller AE, Brumfield RT, Faircloth BC | *GPS-Tracking Reveals Selection for Prairie Ponds by Tree Swallows in Cropland-Dominated Landscapes Elgin AS, Morrissey CA, Clark RG |
| 1045 | Decline and Survival of North America's Migratory Avifauna Determined by a Weather Radar Network <u>Dokter AM</u> | Female Bird Songs The Other Half of the Conversation Benedict L, Hathcock TJ, Najar N, Mitchell L, Cavar J, Logue D | Contrasting Drivers of Diversity and Turnover in Andean Birds and Their Parasites McNew SM, Barrow LN, Bates JM, DuBay SG, Galen SC, Hackett SJ, Johnson AB, Skeen HR, Valqui T, Jason WD, Williamson JL, Witt CC | Behavioral Landscape of 'Oma' o Vocalizations in a Naturally Fragmented Habitat Netoskie EC, Paxton KL, Paxton EH, Hart PJ | Cryptic Bird Species on a Remote Archipelago of the Pacific Ocean <u>Cibois A</u> , Thibault J, Friedman NR, Omland KE, Desutter-Grandcolas L, Robillard T, Pasquet E | *Impact of Wildfires on Barn Owl Habitat Selection in a Vineyard Agroecosystem in Napa Valley <u>Huysman AE</u> , Johnson M |
| 1100 | Grassland Bird Declines: How Can We Stop the Downward Spiral? Panjabi AO, Correll M, Strasser EH, Bernath-Plaisted J, Beh A, VerCauteren TL | Female Preferences Shape Elaborate Male Displays and Social Skills on the Lek <u>Patricelli GL</u> | Fine-Scale Genetic Population Structure of an Understory Bird (Thamnophilus Atrinucha) Across the Panama Canal Zone <u>Maddox JD</u> , Kelley JP, Tarwater CE | *Behavioral and Spectrographic Analysis of Chatter: A Novel Vocalization in Northern Mockingbirds <u>Brown BB</u> , Stracey CM | Climate Delineates the Northern Range Boundary of the Northern Cardinal Miller CR. Porter WP, Fitzpatrick MJ, Zuckerberg B | Does a ''Sonic Net" Protect Sunflower from Damage by Blackbirds? <u>Werrell AK</u> , Klug PE, Swaddle JP |
| 1115 | Volunteer-Led Surveys Document 40-Years of Shorebird Declines Across North America Smith PA, Smith AC, Brown S, Friis C, Paquet J, Winn B, MacDonald A | Habitat Saturation Drives the Frequency of a Rare Behavior in the Females of a Social Bird <u>Barve SS</u> , Koenig WD, Haydock J, Walters EL | Multiple Hybrid Zones in a Widespread Amazonian Bird Reveal Different Evolutionary Processes Moncrieff AE, Brumfield RT | *Repertoire Size and Individual Variation in Vocalizations of 'ōma' o (Myadestes Obscurus) an Endemic Hawaiian Thrush Tysall EE, Paxton KL, Netoskie EC, Paxton EH, Hart PJ | Diversification and Biogeography in an Indo-Pacific Bird Radiation (Pachycephalidae) Brady SS, Joseph LG, Moyle RG, Andersen MJ | Quantifying Multiple-Benefits of Bird Conservation in the Agricultural Mosaic of California's Central Valley <u>Seavy NE</u> , Humple D |
| 1130 | American Seabirds: A Review of Status, Threats, and Conservation on Land and at Sea Nevins HM, Goyert H, Keitt B, Wiedenfeld D | Migratory Landbird Conservation Compromised by Failure to Address Sexual Segregation Bennett RE, Rodewald AD, Rosenberg KV | Comparative Phylogeography of Amazonian Riverine Island Birds Johnson O, Brumfield RT | Deep Convolutional Neural Network to Detect Forest Owls of the Pacific Northwest <u>Lesmeister DB</u> , Ruff ZJ, <u>Sullivan CM</u> | *Patterns and Mechanisms of Heterogeneous Breeding Distribution Shifts in North American Migratory Birds <u>McCaslin HM</u> , Heath JA | Estimating the Effect of Prairie Strips on Grassland Birds <u>Giese JC</u> , Schulte LA, <u>Klaver RW</u> |
| 1145 | Songbirds of the Sagebrush Sea: Declines and Mechanisms Chalfoun AD, Sanders L, Scherr T, Hethcoat M | Elaborate Female Coloration and Song: Diverse Perspectives Lead to a More Comprehensive Understanding of Avian Biology Omland KE, Rose EM, Haines CD | Resolving Difficult Nodes in Manakin Phylogeny Using Low-Coverage Whole Genome Sequencing Braun EL, White ND, Kimball RT, Moncrieff AE, Zhao M, Kurtis SM, Brumfield RT | *Sex and Species Divergence in Vocalizations Between Role-Reversed Shorebirds, Jacana Spinosa and Jacana Jacana Buck EJ, Lipshutz SE, Derryberry EP | Is Specialism an Evolutionary Dead-End? Estimates of Transition Rates Between Generalism and Specialism in a New World Clade <u>Conway M</u> , Olsen BJ | Comparing Land-Sparing and Land-Sharing Conservation Approaches in a Coffee-Growing Region with High Avian Biodiversity Valente JJ, Ryder TB, Rice RA, Gómez C, Bayly NJ, Sillett TS, Marra PP |

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| Room | Summit 5 | Summit 6 | Summit 7/8 | Summit 9/10 | Summit 11/12 | Summit 13/14 |
|---------|---|--|--|---|---|---|
| Session | Symposium Assessing the Cumulative Effects of Resource Development on Migratory Birds in Northern Boreal Regions (Mahon) S7 | Sexual Selection S8 | Conservation & Population Dynamics S9 | Movements & Dispersal S10 | Habitat Relationships S11 | Population Biology S12 |
| 1030 | Soaring to New Heights: Analytical Approaches for Cumulative Effects Assessment for Migratory Birds Pelech SA, Mahon CL, Lowry N | Within-Pair Annual and Lifetime Reproductive Success Drives the Opportunity for Sexual Selection in Black-Throated Blue Warblers Germain RR, Hallworth MT, Sillett TS, Webster MS | *Cutting Out Without Losing Out: Subsampling Soundscapes for Long-Term Avian Biodiversity Monitoring <u>Eiseman JP</u> , Vonhof MJ, Gill SA | Long-Term Dynamics of Breeding Dispersal Distances by Adult Northern Spotted Owls <u>Jenkins JM</u> , Lesmeister <u>DB</u> , Forsman E, Dugger K | *Shrub Encroachment Alters Distributions and Demography of Breeding Birds in Semiarid Grasslands Andersen EM, Steidl RJ | *Growth of Two Atlantic Coast Piping Plover Populations Weithman CE, Robinson SG, Hunt KL, Altman J, Bellman HA, DeRose-Wilson AL, Walker KM, Fraser JD, Karpanty SM, Catlin DH |
| 1045 | Understanding Cumulative Effects for Land Management in Alberta: Models and Applications Solymos P, Toms JD, Bayne EM | Experimentally Increasing Perceived Competition for Nests Reduces Female Reproductive Performance and Extra-Pair Offspring Murphy TG, Korsten P, Birker M, Marfull R, Komdeur J | Spatial Models to Facilitate Broad-Scale Conservation of Breeding Habitat for Secretive Marsh Birds <u>Stevens BS</u> , Conway CJ | *A Burning Question: Does Personality Predict How Pre-Breeding Florida Scrub-Jays Explore Habitat in a Fire History Mosaic? Sherer DL, Bohlen PJ, Bowman R | *Are We Sure About Shearing? Evaluating the Impact of a Widely Used but Poorly Assessed Habitat Management Practice Buckardt Thomas AC, Roth AM, McNeil Jr DJ, Johnson K, Rodewald AD, Larkin JL | Population Demographics, Breeding Ecology, and Responses to Grazing of Montana Sagebrush Steppe Songbirds <u>Dreitz VJ</u> , Ruth K, <u>Berkeley L</u> |
| 1100 | Additive and Interactive Cumulative Effects on Boreal Landbirds: Winners and Losers in a Multi-Stressor Landscape Mahon CL, Holloway GL, Bayne EM, Toms JD | Male Red Carotenoid Coloration Indicates Mitochondrial Performance in the House Finch Hood WR, Hill GE, Kavazis AN, Zhang Y | A Bayesian Network Approach for Improved Seasonal Distribution Models of Long-Distance Migratory Passerines Using Tyrannus Flycatchers <u>MacPherson MP</u> | *Effects of Source Population and Release Strategy on Reintroduced Scaled Quail Mortality and Dispersal *Ruzicka RE, Doherty Jr PF, Rollins D | Restoration Success: Avian Richness and Abundance Among 1,000 Acres of Restored San Francisco Bay Tidal Marsh Habitat, Based on Point Count Surveys that Employ Citizen Scientists <u>Edelstein D</u> | Population Genomics of Hawaiian House Finches (Haemorhous Mexicanus): Investigating Genetic Variation of an Introduced Population <u>Demery AC, Edwards S, Shultz AJ</u> |
| 1115 | Community-Level Response to Cumulative Effects of Forestry and Energy Development Toms JD, Carpenter TM | Infanticide and Adoption in the Green-Rumped Parrotlet: Killing Cavities, Remorseless Rogues and Betrayed Saints **Beissinger SR*, Berg KS** | *Using Integrated Models to Identify Ecology and Population Dynamics of a Threatened Arctic Species <u>Dunham KD</u> , Abebe A, <u>Dobson SF</u> , Koons DN, <u>Grand JB</u> | Does Experimental Local Extinction of a Flowering Plant Affect Hummingbird Movement Patterns? Leimberger KG, Hadley AS, Betts MG | *Post-Fire Nest Site Selection and Survival of Black-Backed Woodpeckers <u>Stillman AN</u> , Siegel RB, Wilkerson RL, Johnson M, Howell CA, Tingley MW | Contrasting Long-Term Population Trends of Beach-Nesting Shorebirds Under Shared Environmental Conditions Kwon EB, Robinson SG, Weithman CE, Fraser JD, Karpanty SM, Catlin DH |
| 1130 | Adverse Effects of Climate Change on Boreal Bird Communities Accentuated by Natural and Anthropogenic Disturbances Tremblay JA, Cadieux P, Boulanger Y, Cyr D, Taylor AR, Price DT, Solymos P, Stralberg D | Can Male Zebra Finches Perceive Their Own Quality and Adjust Mate Choice Accordingly? Martin JO, Chien E, Henson KE, Burley NT | Population Dynamics of a Long-Distance Migratory Passerine at the Edge of Its Range Murphy MT, Redmond LJ, Dolan AC, Cooper NW, Chutter CM, Cancellieri S | Habitat Use and Foraging Flights of Roseate Spoonbills in Florida Bay Lago EA, Baldwin JD, Lorenz JJ | *Identifying Critical Nesting Habitat for Ducks in Alberta's Western Boreal Forest <u>Dyson ME</u> , Slattery SM, Fedy BC | *Investigation of Population Change in a Hurricane-Affected Piping Plover Population *Robinson SG, Gibson D, Fraser JD, Bellman HA, DeRose-Wilson AL, Karpanty SM, Walker KM, Catlin DH |
| 1145 | Panel Discussion | Associations of the Cloacal Microbiome with Sexual Ornamentation, Condition, Sex and Habitat in Molting House Finches Hutton P, Giraudeau M, | Road Mortality in Barn Owls: Identifying Temporal and Spatial Hotspots in the Fraser Valley of British Columbia Krebs EA, Hindmarch SR, | The Allometry of Movement and Connectivity of Bird Communities Hartfelder J, Fletcher RJ, Reynolds C, Monadjem A, McCleery R | Persistence in a Changing Landscape: Recurring Bird Concentration Areas on Alaska's Arctic Coastal Plain Sullender BK, Smith MA | Using Museum Specimens to Investigate Fitness Variation Across Avian Hybrid Zones Dougherty PJ, Carling MD, Fossberg SL |
| | | Sepp T, McGraw KJ | Powers G LUNCH BRE | • | | - |

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|---------|---|---|---|--|--|--|
| Session | Symposium Understanding and Addressing the Collapse of the North American Avifauna (Marra & Rosenberg) S13 | Symposium Conservation and Management of Boreal Birds in a Changing Climate: What Do We Expect, What Have We Observed, and What Do We Do About It? (Stralberg et Al.) S14 | Phylogeography S15 | Symposium Species Limits in Birds: Integrative and Practical Considerations for Taxonomy (Winker & Rasmussen) S16 | Climate S17 | Breeding Biology S18 |
| 1400 | Conservation of Boreal Birds: Status, Trends, and Data Gaps Toms JD, Solymos P, Stralberg D, Barker NK, Micheletti T, Leston L, Hache S, Cumming S, Song S, Schmiegelow F | Model-Based Vulnerability Assessment of Boreal Birds in a Changing Climate Bateman BL, Wu JX, Wilsey CB, Taylor L, LeBaron G, Langham GM | Genomic Signatures of Pleistocene Dry Forest Connections in a Widespread South American Songbird Corbett EC, Bravo GA, Schunck F, Naka LN, Silveira LF, Edwards SV | Integrative Approaches to Species Delimitation in Birds <u>Cicero C, Mason NA,</u> Jimenez RA, Wait DR, Wang-Claypool CY, Bowie RC | Alternate Migration Strategies Mediate the Effects of Stochastic and Predictable Climatic Changes on Migratory Birds <u>Senner NR</u> , Linscott JA, Rakhimberdiev E, Douglas DC | Can Nest Concealment in Wood Thrushes Predict Reproductive Success? <u>Israel AM</u> , Stutchbury BJ |
| 1415 | Waterfowl in North America: A Successful Story of Partner-Based Conservation and Regulated Harvest Brasher MG, Moorman TE | Ecological Niche Modeling and Potential Implications for Alaskan Birds Under 2 °C Warming Wu JX, Bateman BL, Wilsey CB, Taylor L, Langham GM | Using Ancient DNA from Fossils to Place an Extinct Flightless Bird Genus in a Phylogenetic Context Oswald JA, Allen JM, Folk R, Stucky B, Steadman DW, Guralnick R | Revisionist History - Towards Comparable Species Across Avian Taxonomy Bates JM, Reddy S | Climate, Storm-Petrels, and Chick Growth Mauck RA, Huntington CE, Haussmann MF, Dearborn DC, Ricklefs RE | Nest Survival, Predator Assemblage, and Patterns of Predation at Veery (Catharus Fuscescens) Nests in a Mature Forest Goguen CB, Murray LD |
| 1430 | Contrasting Regional and Range-Wide Trends Inform Causes of Decline: Case Study with the Red-Cockaded Woodpecker and Associated Pineland Birds Walters JR, Rosenberg KV, Sauer JR | Detecting Shifts in the Phenology and Distribution of Bird Assemblages on the Kenai Peninsula, Alaska in a Changing Climate Magness DR, Eskelin T | Comparative Phylogeography of Four Lowland Forest Birds Distributed Across the Dahomey Gap of West Africa Huntley JW, Sweet P, Hibbitts T, Arame H, Adite A | Genoscapes & Species Limits - Lessons from the Last 5 Years Ruegg KC, Smith T, Bossu C, Rajbandary J | *Contrasting Demographic Responses of Eastern Bluebird Populations to Climatic Variability <u>Harrod SE</u> , Rolland V | *Viewing Habitat Through Another Lens: Bird Nest-Site Selection and Productivity Across the Beach Thermal Landscape Schaale LE, Baxley JB, Pricope NG, Danner RM |
| 1445 | State of Population Trend Monitoring for North American Birds <u>Michel NL</u> , Smith AC, Hudson MR, Sauer J | Present and Future Distribution and Abundance of Aerial Insectivores in the Northwest Using Climate and Landcover Stehelin TE, Schmiegelow FK | *Comparative Genomics Reveal Modes of Differentiation in North American Warm Desert Birds Provost KL, Shue S, Forcellati M, Smith BT | The Utility and Significance of Population Genomic Data in Assessing Avian Species Limits <u>Sorenson MD</u> | Climate Warming Reduces Population Growth and Recruitment Rates Over 30 Years in an Afrotropical Bird Community Neate-Clegg MH, Stanley TR, Sekercioglu CH, Newmark WD | *Egg Laying Behavior by Burrowing Owls Along a Latitudinal Gradient <u>Lundblad CG</u> , Conway CJ |
| 1500 | Are Declines in Migratory Bird Species More Closely Associated with Breeding or Wintering Locations? <u>Sauer JR</u> , Rosenberg KV, Marra PP, Link WA | Conservation of Kirtland's Warbler in a Changing World <u>Ribic CA</u> , Brown DJ, <u>Donner DM</u> , Bocetti CI | *The Genetics of Adaptation and Diversification of the "Great Speciators" - The Wallacean Zosterops <u>Bloch LM</u> , Irham M, Haryoko T, Claypool-Wang C, McGuire JA, Rowe K, Bowie RC | The Past and Future of 'benchmark' Systems for Delimiting Bird Species <i>Tobias JA</i> | Climate Change Threatens a Songbird Population Through Its Impacts on Breeding Bonnot TW, Cox WA, Thompson FR, Millspaugh JJ | Macroevolutionary Dynamics of Egg Colour and Patterning <u>Sheard CE</u> , Street SE, Troisi C, Clark A, Healy SD, Laland KN |
| 1515 | Addressing Population Declines with Full Annual Cycle Models: Current Advances and Data Needs <u>Joos CJ</u> , Rushing CS | The Influence of Climatic Dipoles on Irruption Dynamics in a Warming World Zuckerberg B, Strong C, LaMontagne J | Testing the Causes of Speciation with Gene Flow in a Neotropical Avian Species Pair (Pachyramphus Aglaiae) Musher LJ, Galante P, Blair M, Huntley J, Thom G | Endless Forms Less Beautiful: Relevance of Morphological Analyses to Integrative Taxonomy of Asian Prinia Species Complexes Rasmussen PC, Alstrom P, Olsson U | | *To Kill a Mockingbird: The Combined Effects of Two Radically Different Parasites Herman JM, Fiorini VD, Crudele I, Reboreda JC, Pladas SA, Bush SE, Clayton DH |
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|---------|--|--|--|--|--|---|
| Session | Symposium Biodiversity Mediated Trade-offs in Agroecosystems: When Do Birds Help or Hurt Farmers? (Pejchar & Kennedy) S19 | Evolution S20 | Conservation S21 | Migration & Stopover S22 | Symposium Social Dynamics in Interspecific Interactions (Johnson & Shizuka) S23 | Symposium Avian Biology and the Annual Life Cycle: Shorebirds as Models to Understand Dynamic Boundaries (Gurney & Ruthrauff) S24 |
| 1400 | Net Effects of Birds in Agroecosystems Pejchar L, Clough Y, Ekroos J, Nicholas K, Olsson O, Ram D, Tschumi M, Smith H | *A Tale of Two Transects: Sexual Selection Across a Hummingbird Hybrid Zone Myers BM, Rankin DT, Brelsford A, Burns KJ, Clark CJ | Extinction Debt and Species Credit in Tropical Forest Bird Communities: Conservation Implications for Two Biodiversity Hotspots <u>Newmark WD</u> | *A Range-Wide Geolocator Project Fills Critical Knowledge Gaps of Our Understanding of the Full Annual Cycle of Cerulean Warblers Raybuck DW, Buehler DA, Boves TJ, Larkin JL, Stoleson SH, Bulluck LP, George GA, Kearns LJ, Slankard KG, Petzinger S, Cox JJ, Mylecraine KA | Heterospecific Sociality: How Cooperation, Competition, and Communication Across Species Shape Avian Behavior Johnson AE | Can Stable Isotopes Help Identify Links Between Wintering, Migration, and Breeding Areas of Semipalmated Sandpiper? <u>Gurney KE</u> , Mizrahi DS, <u>Alisauskas RT</u> |
| 1415 | Strategies for Navigating Trade-Offs Between Avian-Mediated Services and Disservices Affecting Food Production and Safety Kennedy CM, Latimer CE, Smith OM, Taylor JM, Owen JP, Rankin E, Snyder WE | Cultural Evolution Promotes Rapid Character Displacement in Sympatric Crossbills Porter CK, <u>Benkman CW</u> | *Cross-Scale Interaction Effects of Climate and Forest Patch Size on the Persistence of Forest-Interior Birds Chaudhary A, Gutzwiller KJ | Phenology of the Purple Martin Annual Cycle <u>Kelly JF</u> , Horton KG, <u>Stepanian P</u> | Learning to Join the Information Web | Migratory Dynamics of Beringian Dunlin on the East Asian-Australasian Flyway Lanctot RB, Lagasse BJ, Yezerinac S, Brown S, Kendall S, Latty C, Liebezeit J, McGuire RL, Robards M, Saalfeld ST, Slaght J, Wunder M |
| 1430 | Trade-Offs Between Ecosystem Services and Disservices Provided by Birds Covary with Agricultural Intensification in the US Latimer CE, Smith OM, Owen J, Snyder W, Kennedy CM | The Relative Roles of Natural Selection and Sexual Selection in Speciation in the Tanagers <u>Price-Waldman RM,</u> Demery AJ, Mason NA, Shultz AJ, Title PO, Burns KJ | *Experimental Forest Fragmentation Alters Interaction Networks of Amazonian Mixed-Species Flocks <u>Rutt CL</u> , Mokross K, Stouffer PC | Conservation Implications of a Migratory Network for the Common Nighthawk Knight EC, Harrison A, Scarpignato AL, Van Wilgenburg SL, Bayne EM, Marra PP | Information Web Magrath RD, Ratnayake C, Radford A, McLachlan J, Igic B, Potvin D | Movement Patterns of Arctic-Breeding Shorebirds During Post-Breeding and Southbound Migration Saalfeld ST, Lanctot RB, Brown S, Lamarre J, McGuire R, Ruthrauff D, Elliot K, Latty C |
| 1445 | *Understanding Food Safety Risks Associated with Wild Birds: a Meta-Analysis and Conceptual Framework Smith OM, Owen JP | Pleistocene Glacial Cycles and the Relative Ease of Speciation with Periodic Gene Flow Linck EB, Battey C | Forest Management, Habitat Conservation and Monitoring Northern Goshawks in Southeast Alaska <u>Titus K</u> | Conservation in the Context of Migratory Connectivity: A Golden-Winged Warbler Case Study **Roth AM*, Buckardt Thomas A | Sister, Sister: Song Recognition and the Role of Early Experience in Sympatric Zonotrichia <u>Hudson EJ</u> , Shizuka D | Migratory Connectivity of a Declining Boreal Shorebird, the Lesser Yellowlegs <u>Christie KS</u> , McDuffie L, Johnson JA, Taylor A |
| 1500 | Managing Wild Birds for Strawberry Production, Pest Control, and Food Safety Outcomes in the California Central Coast Olimpi EM, Garcia K, Gonthier D, Karp DS | Early Stage of the Speciation Process: Two Coloration Genes Underlie Species Differences in a Pair of Capuchino Seedeaters (Sporophila) Estalles MC, Campagna L, Rodriguez Cajarville MJ, Tubaro PL, Lovette I, Lijtmaer DA | *Grassland Bird Response to Spring Cover Crops in an Agricultural Landscape <u>Godar AJ</u> , Annis A, Haukos D, Prendergast J | Migratory Pathways, Stopover Locations, and Wintering Destinations of Flammulated Owls Breeding in Colorado Linkhart BD, Yanco SW, Fox JW | Identifying Functional Roles in Mixed-Species Groups <u>Vander Meiden LN,</u> Shizuka D | Stopover Ecology of Semipalmated Sandpipers in Maritime Canada <u>Hamilton DJ</u> , Bliss S, Geldart E, Linhart R, Neima SG, Paquet J, Gratto-Trevor CL |
| 1515 | Birds in Fruit Production Systems: Contexts, Outcomes, Costs, and Benefits <i>Lindell CA</i> | Signal Evolution and Morphological Complexity in Hummingbirds (Aves: Trochilidae) Eliason CM, Maia R, Parra JL, Shawkey MD | Using Remote Sensing of Avian Habitat to Direct Bird Conservation Bonfield SB, Schimel D, Stavros N, Questad E, Schneider F, Ferraz A | Full Annual Cycle Ecology of Migratory Birds in the Lower Great Lakes Tonra CM | Loss of a Keystone Informant Disrupts Information Cascades among Ant-Following Birds in a Tropical Forest Fragment Pollock HS, Martinez AE, Kelley JP, Touchton JM, Tarwater CE | Connectivity and Staging Site Pollution Effects in a Long-Distance Migratory Shorebird Morrissey CA, Bianchini K, McKellar A, Newstead D |
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| Session | Symposium Understanding and Addressing the Collapse of the North American Avifauna (Marra & Rosenberg) S25 | Symposium Conservation and Management of Boreal Birds in a Changing Climate: What Do We Expect, What Have We Observed, and What Do We Do About It? (Stralberg et Al.) S26 | Phylogenetics S27 | Symposium Species Limits in Birds: Integrative and Practical Considerations for Taxonomy (Winker & Rasmussen) S28 | Community Ecology S29 | Abundance, Occupancy, Trends S30 |
| 1600 | Pesticide Exposure and Effects on Migratory Songbirds: Past and Current Threats Morrissey CA, Eng M, Stutchbury BJ, Stanton R, Clark R | Forecasting Avian Responses to Climate-Mediated Increases in Fire Activity Across the Northwestern Boreal Forest <u>Matsuoka SM, Sólymos P,</u> <u>Breen AL, Handel CM,</u> Rupp TS, Mahon CL, Kurkowski TA | Genomic and Phenotypic Divergence in Red Warblers (Cardellina Rubra) Tsai WL, White E, Maley JM, McCormack JE | Australo-Papuan Perspectives on Unravelling Tangled Knots on Branches of Species Trees? Joseph LG | *Characterizing a Century of Species Losses in an Isolated Tropical Forest Fragment <u>Curtis JR</u> , Robinson WD, Rompré G, McCune B | EBird Status and Trends: Species Distributions and Population Trends with Citizen Science Data Fink D, Auer T, Johnston A, Strimas-Mackey M, Iliff M, Robinson OJ, Petersen B, Kelling S |
| 1615 | Determining the Role of Human-Caused Bird Mortality in the Collapse of the North American Avifauna Loss SR | Simulating the Effects of Climate on Fire Regime & Vegetation: Implications for Woodland Caribou & Boreal Landbird Communities Hache SA, Micheletti T, Stralberg D, Cumming S, McIntire E, Tremblay J, Leblond M, Marchal J, Raymundo Sanchez A, van Telgen M, Hodson J, Pankratz R | A Phylogenomic Tree of Screech-Owls: Elucidating the Evolution of Color Polymorphism and Its Ecological Correlates <u>Kurtis SM</u> , Owens HL, Oswald JA, Hosner PA, Guralnick R, Allen J, Ku M, Braun EL, Kimball RT | Coalescent-Based Species Delimitation in Avian Taxonomy: History, Promise, and Pitfalls Mason NA, Fletcher NK, Gill B, Funk C, Zamudio K | Dominance in Hummingbird Communities: An Alternative Way to Visually Represent it Ortiz-Pulido R | Combining BBS and PIF Population Data to Estimate Recent Changes in Illinois' Total Bird Population <u>Herkert JR</u> |
| 1630 | Limitations to Predicting the Future of Climate-Driven Bird Declines Tingley MW | Conservation Lessons from the Study of Boreal Birds at Their Southern Periphery <u>Ralston J</u> , DeLuca WV | New World Toucans and Barbets: Understanding the Biogeographic History of the Neotropics Ostrow EN, Catanach TA, Bates JM, Alexio A, Weckstein JD | The Genomic Revolution and Species Delimitation in Birds: Gene Flow Matters, but What About Other Evolutionary Forces? <u>Cadena C</u> | Plague Management on Prairie Dog Colonies Maintains Habitat for Grassland Passerines and Raptors <u>Conrey RY</u> , Tripp DW, <u>Youngberg EN</u> , Panjabi <u>AO</u> | Results from a Decade of Banding Yellow Rails in Oklahoma and Texas <u>Butler CJ</u> |
| 1645 | Migratory Bird Policies: Changes, Threats and Opportunities for Action <u>Senner SE</u> | A Synthesis of Climate Change Impacts on Boreal Bird Communities in Managed Landscapes of Canada <u>Tremblay JA, Cadieux P,</u> Boulanger Y, Cyr D, Taylor AR, Price DT | Phylogenomics of Pigeons and Doves from Whole Genome Sequencing Johnson KP, Boyd BM, Nguyen N, Allen JM, Steadman DW, Waterhouse RM, Sweet AD, Clayton DH, Bush SE, Shapiro MD | An Incomplete Overview of Determining Avian Species Limits <u>Winker KS</u> | *Behavioral Niche Partitioning Reexamined: Do Behavioral Foraging Differences Predict Dietary Differences? <u>Kent CM</u> , Sherry TW | Population Trends and Habitat Associations of Conservation Priority Bird Species in Iowa <u>Vanausdall RA</u> , Dinsmore SJ, Kinkead KE, Frese PW |
| 1700 | Sorting Through the Ashes: a Synthesis, Roadmap and Discussion for the Conservation of the Birds of North America <u>Marra PP</u> , Rosenberg K | Conservation Planning for Boreal Birds in a Changing Climate: A Framework for Action Stralberg D, Berteaux D, Drever M, Drever R, Naujokaitis-Lewis I, Schmiegelow F, Tremblay J | Phylogenomics of the Parrots of the World <u>Smith BT</u> , Brumfield R, Ferreira M, Mauck W, Merwin J, Wright T, Joseph LG | Phylogenetic Relationships Within the Sharp-Shinned Hawk Complex with a Focus on Caribbean Populations Catanach TA, Johnson JA, Thorstrom R, Halley MR, Palhano S, Weckstein JD | Functional Changes in Assemblages of Avian Frugivores Following Extinction and Invasion <u>Case SB</u> , Tarwater CE | Do Drones Bug Songbirds? <u>Wilson AM</u> , Boyle KS, Gilmore JL, Kiefer C |
| 1715 | Panel Discussion | Panel Discussion | Molecular Phylogeny of Whistling Ducks (Dendrocygninae) <u>Harshman J</u> | Genomics of Speciation in Woodpeckers and Hummingbirds and What it Means for Assessing Species Limits Miller MJ | *Shifts in Avian Community Composition Across a Human-Modified Landscape in Borneo, Malaysia Hightower JN, Yusah KM, Fletcher RJ | Risk Assessment of Great Lakes Piping Plovers Using EABM: An R Package to Run Environment Agent-Based Models <u>Edwards BP</u> , Jacobs S, Gillis D |

1730 – 1830 EARLY PROFESSIONAL SYMPOSIUM COOK THEATRE

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| Room | Summit 5 | Summit 6 | Summit 7/8 | Summit 9/10 | Summit 11/12 | Summit 13/14 |
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| Session | Symposium Biodiversity Mediated Trade-offs in Agroecosystems: When Do Birds Help or Hurt Farmers? (Pejchar & Kennedy) | Life History & Behavior S32 | Conservation S33 | Migration & Stopover S34 | Symposium Social Dynamics in Interspecific Interactions (Johnson & Shizuka) S35 | Symposium Avian Biology and the Annual Life Cycle: Shorebirds as Models to Understand Dynamic Boundaries (Gurney & Ruthrauff) S36 |
| 1600 | Predation-Mediated Ecosystem Services and Disservices in Agricultural Landscapes <u>Smith HG, Tschumi M,</u> Birkhofer K, Ekroos J, Hjort C | *Evolution of Polygyny in Weaverbirds (Family Ploceidae) <u>De Silva TN, Fernando</u> SW, Peterson AT | *Fear of Predators Influences Nestling Condition Across a Suburbanization Gradient <u>Grade AM</u> , Warren PS, Lerman SB | Satellite Tracking a Wide-Ranging Endangered Vulture Species to Target Conservation Actions in the Middle East and East Africa Buechley ER, McGrady MJ, Coban E, Sekercioglu CH | Effects of Non-Breeding Foraging on Mixed-Species Flocking in Florida Jones HH, Walters MJ, Robinson SK | How Can Habitat Degradation Push Extreme Migrants Over the Edge? <u>Chan Y</u> , Tibbitts TL, Hassell CJ, Peng H, Piersma T |
| 1615 | Insectivorous Birds Foraging in Temperate and Tropical Agricultural Lands Jedlicka JA | *Patterns and Causes of Tropical Montane Life Histories: An Observational and Experimental Study in Malaysian Borneo | *Testing the Proposed IUCN Green List Categories and Criteria Gupta G, McGowan P, Dunn J, Sanderson R | Synthesis of Migration Ecology in the Gulf of Mexico Guides Species Conservation Deppe JL, Benson TJ, Bolus R, Buler J, Celis Murillo A, Diehl R, Feldman R, Knight E, Langham GM, Mehlman D, Michel N, Moore F | Fighting Over Food Unites the Birds of North America in a Continental Dominance Hierarchy <u>Miller ET, Bonter DN,</u> Eldermire C, Freeman BG, Greig EI, Harmon LJ, Lisle C, Hochachka WM | *Traveling as a Newbie: Migratory Strategies Linked to Survivorship in Juvenile Shorebirds in Peru <u>Tavera EA, Lank DB,</u> Drever MC, Gutierrez-Ruiz VV |
| 1630 | Vertebrate Control from Raptors Motivates Farmers to Install Nest Boxes, but is Secondary Poisoning a Concern? Martinico BL, Kross SM, Hull JM, Bourbour RP, Phillips EM, Hiroyasu E | *Quantifying Trade-Offs in Migration and Reproduction in Long-Distance Migratory Birds of Contrasting Life History *Cunningham SA, Schafer TL, Wikle CK, Ballard BM, VonBank JA, Weegman MD | Saving the Red Siskin (Spinus Cucullatus): Managing New Flock Member Introductions in Captivity <u>Hill SK</u> | Messy Eaters: DNA on Dirty Talons and Beaks Reveal What a Migrating Raptor Eats Bourbour RP, Hull JM | Interspecific Aggression and the Evolution of Avian Mimicry in Woodpeckers Leighton GM, Miller ET, Freeman BG, Lees AC, Ligon RA | Within-Individual Advancement in Bar-Tailed Godwit Departure from New Zealand Does Not Lead to Earlier Arrival in Alaska <u>Conklin JR</u> , Lisovski S, Battley PF |
| 1645 | Foraging Selectivity of Insectivorous Birds in Kenyan Shade Coffee Systems Kammerichs-Berke D, Johnson M, Bean T | Timing is of the Essence: Later Breeding Predicts Lower Survival in American Kestrels (Falco Sparverius) Callery KR, Smallwood JA, Eschenbauch AL, Luttmann ER, Heath JA | *Conservation of Tidal Marsh Sparrows in an Urban Setting Referencing Range Wide Nesting Occurrence Kocek AR, Elphick CS, Hodgman TP, Kovach AI, Olsen BJ, Ruskin KJ, Shriver WG, Cohen JB | Winter Ecology and Spring Migration Timing of Swainson's Thrush Using Forest and Shade Coffee Plantations in Colombia Hobson KA, Gonzalez Prieto AM, McElaney S, Bayly N | Social Dominance | Declines in Eastern Canada Piping Plovers: Are Overwintering Grounds the Key to Conservation? Gratto-Trevor CL, Rock J, Shaffer F |
| 1700 | Panel Discussion | *Loggers in Artificial Eggs Reveal Scarlet Macaw Incubation in Natural and Artificial Nests <u>Woodman CJ</u> | Integrating Genetic, Population Monitoring, and Climate Data to Inform Conservation of a Declining Migratory Bird Saracco JF, Ruegg KC, Harrigan RJ, Taylor CM, Rubenstein M | Population-Level Importance and Migratory Connectivity of a Shorebird Staging Site in the Midcontinental Flyway Howell JE, McKellar AE, Espie RH, Bianchini K, Morrissey CA | Hierarchies among Species and Their Consequences for Behaviour, Ecology and Evolution <u>Martin PR</u> | Linking Demographic Rates to Population Trends in Six Species of Arctic-Breeding Shorebirds Weiser EL, Sandercock BK, Lanctot RB, Brown SC |
| 1715 | | Application of a Novel Nest Density Estimator: An Example Using Sagebrush-Steppe Songbirds <u>Reintsma KM</u> , Berkeley LI, Dreitz VJ | Response of a Southern California Riparian Bird Community to Habitat Destruction by the Invasive Kuroshio Shot Hole Borer <u>Kus BE</u> | Idiosyncratic Changes in Spring Arrival Dates of Pacific Northwest Migratory Birds *Robinson WD, Partipilo C, Hallman TA, Fairchild K, Fairchild J | | Environmental Drivers of Annual Survival and Site Fidelity of Lekking Great Snipe in Norway <u>Sandercock BK</u> , Saether SA, Kalas JA |

1730 – 1830 EARLY PROFESSIONAL SYMPOSIUM COOK THEATRE

Thursday, Morning Session *indicates student presenters eligible for AOS presentation award

| Session 1030 | Variation in the Microbiome of Kirtland's Warblers Between Their Wintering and Breeding Areas Skeen HR, Cooper NW, Hackett SJ, Bates JM, Marra PP Admixture Mapping the | Behavior S38 Differences in Foraging Strategies among Common Loons Overwintering on a Large Freshwater Reservoir in Northwest South Carolina Mager JN, Paruk JD, Wade B | Symposium Migratory Connectivity of Alaskan Birds (Harrison & Tibbitts) S39 One State, Global Connections: Insights from 100 Years of Bird Banding in Alaska Scarpignato AL, Harrison A, Marra PP | Lightning Talks S40 Mexican Hummingbird Nesting Nuñez-Rosas LE et al. Phylogeny & Evolution of Gallopheasants Hosner PA et al. | Biogeography S41 Modeling the Implications of Future Bioenergy Scenarios on Bird Diversity and Abundance in the Northern Great | Climate S42 Intraspecific Variation in Morphological Traits of |
|--------------|--|---|--|---|--|--|
| 1030 | Microbiome of Kirtland's Warblers Between Their Wintering and Breeding Areas <u>Skeen HR, Cooper NW,</u> <u>Hackett SJ, Bates JM,</u> <u>Marra PP</u> | Strategies among Common Loons Overwintering on a Large Freshwater Reservoir in Northwest South Carolina Mager JN, Paruk JD, | Connections: Insights from 100 Years of Bird Banding in Alaska Scarpignato AL, Harrison | Nesting Nuñez-Rosas LE et al. Phylogeny & Evolution of Gallopheasants Hosner PA et al. | of Future Bioenergy Scenarios on Bird Diversity and Abundance | Morphological Traits of |
| | | Wade B | | Social Polygyny in the | Plains Baltensperger AP, Goljani Amirkhiz R, Dixon M, | an Understory Insectivore Across a Precipitation Gradient in the Tropics <u>Tarwater CE</u> , Kelley JP |
| 1045 | Genetic Basis of Species Differences in Avian Hybrid Zones Brelsford AT, Nwankwo EC, Myers BM, Clark CJ, Kirschel AN | Effects of the Social Environment on Cloacal Microbiome Diversity Houtz JL, Taff CC, Zimmer C, Vitousek MN | Revealing the Migratory Path and Wintering Areas of Olive-Sided Flycatchers that Breed in Alaska Hagelin JC, Johnson JA, Hallworth MT | Eastern Bluebird King KM et al. Nest Defense, UV, & Melanin Ornaments in Eastern Bluebirds Gillespie LM et al. Do Birds & Humans React to Sounds in Similar Ways? Crook-Hill JR et al. Molecular & Structural Basis for Coloration in Painted Bunting Justyn NM et al. | Extraordinary Plumage Polymorphism in the Variable Antshrike (Thamnophilus Caerulescens, Thamnophilidae) is Consistent with Gloger's Rule Marcondes RS, Brumfield RT | Mesoscale Winds Shape Spring Stopover Distributions of Migrating Birds Along the Gulf of Mexico Clipp HL, Cohen EB, Smolinsky JA, Farnsworth A, Horton KG, Buler JJ |
| 1100 | Population Genetics and Phylogeography of Merlin (Falco Columbarius) in North America <u>Martinico BL</u> , Sage GK, Gravley MC, Talbot SL, Haak BA, Hull JM | Neighbor-Stranger Discrimination in a Neotropical Suboscine Bird: Embracing Behavioral Complexity to Uncover Patterns Kelley JP, Tarwater CE | Connectivity of Pre-Adult, Non-Territorial Migratory Golden Eagles During the Nesting Season in Alaska <u>McIntyre CL</u> , Lewis SB, <u>Katzner TE</u> , Miller TA, <u>Lanzone M</u> , Collopy MW, <u>Douglas DC</u> | Molt Dynamics in Spectacled & Steller's Eiders Ulman SE et al. Bill Divergence & Speciation in Corvidae Scott BF et al. Melanistic Pathways in Buteo Jamaicensis Harlani Barry JL et al. | Natural Selection on Body Size During Range Expansion in Red-Bellied Woodpeckers <u>Ralston J. Mayette-Draper</u> <u>E, Hamilton S, Kirchman</u> JJ | Understanding the Effects of Nest Site Temperature on Songbird Reproductive Fitness and Parental Care Scherr TM, Chalfoun AD |
| 1115 | Asymmetric Gene Flow in an Understory Fijian Bird Gyllenhaal EF, Mapel XM, Andersen MJ | Social Network Metrics Predict Future Social Status in Male Lance-Tailed Manakins <u>Beckman AK</u> , Vanderbilt CC, DuVal EH | Contrasting Patterns of Migratory Connectivity in Two Species of Alaska-Breeding Shorebirds Tibbitts TL, Gill Jr RE, Ruthrauff D, Warnock N, Harwood CM, Harrison A, Hallworth M, Douglas D | Hybridization Between Red-crowned & Lilac-crowned Parrots Maley JM et al. Where Did Cuban Bobwhites Come From? Salter JF et al. Phylogenomics of the Euphoniinae Subfamily Vazquez Lopez AM et al. | Modelling the Niche in Present and Past Climatic Scenarios for the Great Tit Machado-Stredel FJ, Song G, Zhang R, Alstr"om P, Qu Y, Qiao H, Mays H, Ericson PG, Fjelds a J, Peterson AT, Chinese Academy of Sciences NAL | Extreme Weather Lengthens Incubation Periods and Lowers Productivity for a Sagebrush-Obligate Songbird Sanders LE, Hall LE, Chalfoun AD |
| 1130 | Does Range Expansion or Ongoing Dispersal Explain Apparent Panmixia in Bachman's Sparrow? a Temporal Study Using Museum DNA Settlecowski AE, Faircloth BC, Brown JM, Cox JA, Tucker JW, Carpenter JP, Taylor SS | Does Object Neophobia Predict Exploratory Behavior in a Free-Living Wild Bird? Tringali A, Prussing S, Sherer DL, Windsor R, Bowman R | Migration Patterns of Three Loon Species (Gavidae) Breeding in the Arctic Schmutz JA, Uher-Koch BD, Harrison A, Mulcahy DM, Fair JS, Wright KG, DeSorbo CR | Call Distinctiveness in a Suboscine Songbird Tagestad JT et al. Genetic, Morphological & Color Variation in Piranga Bidentata Robles Bello SM et al. Diversity of Grassland Bird Communities Boyce AJ et al. | How Do Dispersal and Migration Influence Range Expansion of Birds? Pegan TM, Weeks BC, Winger BM | Validating Climate Suitability Projections: Community Science Reveals that Birds Track Their Ecological Niche in Summer and Winter Saunders SP, Michel NL, Bateman BL, Wilsey CB, Slavin Z, Dale K, LeBaron G, Langham GM |
| 1145 | The Common Loon Genoscape Lindsay AR, Larison B, Bossu C, Rajbhandary J, Sorenson MD, DaCosta JM, Kaplan JD, Evers DC, Paruk JD, Smith TB, Ruegg KC | A Tale of Two Todies: Understanding How Vocalizations Mediate Behaviors in a Sympatric Zone Garrod HM, Curry R | Closing Summary: A Synthesis and Gap Analysis of Migratory Connectivity Knowledge Available for Alaskan Birds Harrison A LUNCH BRE | | The Importance of Geography and Environment for Diversification: a Case Study in the Northern Double-Collared Sunbird Cinnyris Reichenowi Cooper JC, Maddox JD, McKague K, Bates J | Using Big Data to Assess the Vulnerability of North American Birds to Climate Change Bateman BL, Wilsey CB, Taylor L, Wu JX, LeBaron G, Langham GM |

Thursday, Morning Session *indicates student presenters eligible for AOS presentation award

| Room | Summit 5 | Summit 6 | Summit 7/8 | Summit 9/10 | Summit 11/12 | Summit 13/14 |
|---------|---|--|--|---|--|---|
| Session | Sexual Selection & Parental Care S43 | Abundance, Occupancy, Trends S44 | Habitat Relationships S45 | Symposium Permeable Boundaries in Biological and Social Sciences: Human Dimensions in Bird Research and Conservation (Naves et Al.) S46 | Breeding Biology S47 | Symposium A Bright Future for Birds: Understanding the Impacts of Light Pollution on Avian Wildlife (Kernbach et Al.) S48 |
| 1030 | *Testing the Hotspot Hypothesis: Lesser Prairie-Chicken Lek Formation and Female Space Use <u>Aulicky CS</u> , Haukos D | Juniper Expansion in the Sagebrush Ecosystem: Avian Predator Occupancy Patterns and Implications for Sage-Grouse Habitat Restoration Young AC, Johnson TN | *Urban Habitat Use by an Endangered Hawaiian Waterbird on O'ahu, Hawaii <u>Kawasaki MT</u> , Hart PJ, Paxton EH | Why Do Bird Conservation and Ornithology Need Social Science? <u>Dayer AA</u> | A Holistic Approach to Demographic Monitoring of Declining Grassland Songbirds Bernath-Plaisted JS, Correll MD, Panjabi AO | Circadian Rhythms, Melatonin and the Daily and Seasonal Control of Birdsong <u>Cassone VM</u> , Harpole CE |
| 1045 | *Factors Influencing Parental Care in a Monomorphic Species, the Red-Headed Woodpecker Walter LA, Viverette C, Bulluck LP | *The Effects of Recreational Activities on Avian Occupancy in a High Latitude Tundra Ecosystem <u>Meeker AL</u> , Marzluff JM | Cascading Effects of Widespread Disease-Induced Mortality of a Foundation Tree Species on Hawaiian Forest Bird Communities Paxton KL, Hart PJ | | Variation in Nest Survival of the Federally Threatened Streaked Horned Lark on Grasslands in the South Puget Sound Lowlands Slater GL, Wolf AL, Lynch J | Physiological and Genetic Mechanisms Underlying Organismal Response to Artificial Light at Night Alaasam VJ, Zang Y, Niu Y, Ferguson B, Pieraut S, Seymoure B, Casagrande S, Ouyang JQ |
| 1100 | Social Versus Genetic Mating Systems: The Complex Mating System of the Lark Bunting <u>Lyon BE</u> , Chaine AS | *Bias in Estimated Breeding Bird Abundance from Individual Movement Fogarty FA, Fleishman E | Guild-Specific Effects of Intensive Forest Management on Avian Abundance Verschuyl JP, Kroll AJ, Jones J, Betts MG | Building Social Science Capacity in the Bird | *Seasonal Variation in Effects of Competing Predators on Avian Nest Success <u>Ellis KS, Larsen RT,</u> Koons DN | Effects of Spectral Composition of Nighttime Lighting on Host Competence to West Nile Virus in a Passerine Reservoir Kernbach ME, Cassone VM, Unnasch TR, Martin LB |
| 1115 | Influence of Both Male and Female Attractiveness on Reproductive Success, Offspring Phenotype, and Nestling Sex Ratio Hubbard JK, Moranville GP | Distribution Update, Habitat Use and Conservation Status Assessment of the Grey-Bellied Comet (Taphrolesbia Griseiventris) <u>Cuadros SF</u> | Patterns of Home Range Resource Use by the Volcano Junco, a Costa Rican Highland Endemic Besozzi EM, Patten M | Capacity in the Bird Conservation Community: Nationwide Priorities and Practices <u>Scarl J</u> , Barnes JC, VerCauteren T | Patterns of Nestling Growth Rates in Tidal Marsh Sparrows Mirror Colonization of Specialist Habitat <u>Ruskin KJ, Watson VK,</u> Olsen BJ | Multiple Reproductive Costs Due to Light Pollution: Insights from Manipulative Experiments & Continental-Scale Data Synthesis Francis CD, Senzaki M, Ferraro DM, Barber JR |
| 1130 | Frontline Defenses Against a Purported Mafia Brood Parasite <u>Peer BD</u> , Page P | Ecological Correlates to Habitat Use in the Coastal Cactus Wren Winchell CS, Doherty PF, Taylor JM | Influence of Reproductive Status of Greater Sage-Grouse on Habitat Selection in a Juniper Dominated Landscape Rabon JC, Coates PS, Ricca MA, Johnson TN | America's Wildlife Values: How Values Lead to Challenges and Opportunities for Bird Conservation <u>Dietsch AM</u> | To Burn or Not to Burn? Breeding Success of King Rails in a Fire-Managed Coastal Marsh McRae SB, Schroeder KM | *Light Pollution is Greatest Within Migration Passage Areas and is Related to Flight Altitudes of Nocturnal Migrants Cabrera-Cruz SA, Smolinsky JA, McCarthy KP, Buler JJ |
| 1145 | Direct Effects of Brown-Headed Cowbird (Molothrus Ater) Brood Parasitism on the Growth and Development of Grassland Songbirds <u>Winnicki SK</u> , Boyle WA | Sea Level Rise Impacts on Waterbird Habitat Across the Hawaiian Islands <u>Price MR</u> , Harmon KC | Greener Pastures: Idiosyncratic Avian Responses to Early Forest Regeneration in the Maya Biosphere Reserve Lello-Smith AM, Rodewald AD, Ruiz-Gutierrez VV | Understanding Underserved Audiences to Ensure Ongoing Long-Term Citizen Science Data Collection for Project FeederWatch Martin VY, Greig E, Bonter D | Not So Secretive Marshbirds: Using Technology to Research a Cryptic Species, the Clapper Rail Elizondo EC, Shriver WG | Seasonal Associations with Urban Light Pollution for Nocturnally Migrating Bird Populations <i>La Sorte FA</i> |
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Thursday, Early Afternoon Session *indicates student presenters eligible for AOS presentation award

| Room | Atwood Hall | Cook Theatre | Summit 1 | Summit 2 | Summit 3 | Summit 4 |
|---------|--|--|---|--|---|---|
| Session | Genomics S49 | Behavior S50 | 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) S52 | Conservation S53 | Migration & Stopover S54 |
| 1400 | Genomic Differentiation Along the Speciation Continuum in Three Hummingbird Species Pairs Henderson EC, Brelsford A | *Plasticity of Aggressive Behavior in Bachman's Sparrows <u>Niederhauser JM</u> , Ali S, <u>Ziadi MP</u> , Anderson RC | Two Millennia in the Making: Understanding Trans-Pacific Avian Migration <u>Gill Jr E</u> | An Ornithologist's Toolkit for Molecular Community | Captivity and the Gut Microbiota of 'Akikiki: Implications for Conservation of a Critically Endangered Hawaiian Honeycreeper Costantini MS, Crampton C, Masuda B, Reed F | Quantifying Passage Population Size and Migration Phenology of Endangered Rufa Red Knots Staging in Southwestern James Bay, Ontario, Canada <u>MacDonald AJ</u> , Smith PA, Friis CA, Lyons JE, Nol E |
| 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,</u> <u>Sheldon FH</u> | *Exploratory Behavior in Brown-Headed Nuthatches May Indicate Successful Population Reintroduction Strategy | Tropical Convection, Atmospheric Teleconnections, and Possible Links to Wind-Assisted Bird Migration Over the North Pacific Feldstein SB, Gill RE, Douglas DC | Ecology Jusino MA | Down in the 'weeds' Searching for Answers to Wood Thrush Fledgling and Juvenile Survival Hayes SM, Boyd B, Stutchbury BJ | A Comparison of Spring and Fall Body Condition and Hematological Parameters in Two Migratory Songbirds <u>Hatch MI</u> , Smith RJ |
| 1430 | *Genomics of Parallel Divergence and Local Adaptation in Two North American Woodpeckers <u>Moreira LR</u> , Smith BT | Incubation Behavior of Trumpeter Swans Measured by Continuous Infrared Videography <u>Delehanty DJ</u> , Bush DA | What Nonstop Trans-Pacific Flights of Shorebirds Mean for Our Understanding of the Energetic and Physiological Limits to Endurance Flight Guglielmo CG, Lindstr"om | Using Molecular Methods to Identify Fungi at Woodpecker Excavated Cavities in Western Coniferous Forests Lorenz TJ, Jusino MA, Schilling JS, Andrews E, Seveyka J, Fischer PC | Comparison of Abundance and Annual Return Rates of Wintering Piping Plovers on Natural and Man-Made Beaches in the Mississippi Sound | Annual Variation in Use of a Spring Stopover Site by Three Migratory Shorebirds Tucker AM, McGowan CP |
| 1445 | A Genomic Comparison Between Flycatchers Only Distinguishable by Innate Song Differences Garcia NC, Campagna L, Rush AC, Bowie RC, Lovette IJ | *Deep Snow and Dense Cover Influence Habitat Selection in a Winter-Adapted Bird Shipley AA, Zuckerberg B | Wind Assistance Along the Trans-Pacific Migration Corridor of the Bar-Tailed Godwit: Past, Present, and Future Gill Jr RE, Douglas DC, Feldstein SB, Mills CM, Battley PF, Handel CM | *The Nidobiome as a Framework to Understand Microbiome Assembly *Campos-Cerda F, Bohannan BJ | *Patterns of Northern Bobwhite Juvenile Survival on Extensive Prairies and Mixed Agricultural, Grassland, and Wooded Landscapes in Missouri Sinnott EA, Thompson FR, Weegman MD, Thompson T | What Causes Vagrancy in Some New World Warblers Along the Pacific Coast? <u>Ralph CJ</u> , Wolfe JD |
| 1500 | Gradual Evolution Towards Flightlessness in Steamer-Ducks Campagna L, McCracken K, Lovette IJ | *Stinky is Sexy: The Major Histocompatibility Complex, Mate Choice and Personal Odor in Leach's Storm-Petrels Jennings SL, Hoover BA, Sin Y, Nevitt GA, Edwards SV, Ebeler SE | Minding the Gap: An Energetics-Based Perspective on Not Migrating Ruthrauff DR, Dekinga A, Gill Jr RE, Piersma T | *Is There an Association Between Communities of Wood Decay Fungi and Black-Capped Chickadee Nest Cavities? <u>Gable CL</u> , Lindsay AR, Jusino MA | Cumulative Effects of Forest Harvesting, Wildfires, and Roads on Olive-Sided Flycatcher Habitat in British Columbia: Implications for Environmental Assessment Processes Norris AR, De Groot K, Robinson A, Dohms KM, Thomas J, Lee A, Moore K, Martin K | *Migratory Bird Use of Stopover Sites in Midwestern Forests and Urban Habitats During Spring and Fall Outcalt JM, Buler JJ, Smolinsky JA, Dunning JB |
| 1515 | Is Mutation Rate Linked to Diversification in Birds? Oliveros CH, Faircloth BC | *Dominance Rank and Sex Predict Social Network Position in Winter Social Groups in a Passerine Bird Block TA, Shizuka D, | Rapid Global Differentiation of Migratory Phenotypes in Bar-Tailed Godwits Conklin JR, Verkuil YI, Piersma T, Fontaine MC | Revealing Unknown Interactions: The Role of Patagonian Tapaculos (Rhinocryptidae) on the Dispersal of Endemic Truffles Caiafa MV, Jusino MA, | Responses of State-Endangered Common Terns (Sterna Hirundo) in Ohio to the Use of Artificial Nesting Platforms Kearns LJ, Shirkey B, | What Can Weather Surveillance Radar Data Tell Us About Stopover Duration of Migrating Land Birds? Buler JJ, Zenzal Jr TJ, |
| | | Chaine AS, Lyon BE | ŕ | Díaz IA, Smith ME | Picciuto M, Crouser A, Scott E | Moore FR, CalderÏÑn LN, Barrow Jr W, Wilson B |
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Thursday, Early Afternoon Session *indicates student presenters eligible for AOS presentation award

| Room | Summit 5 | Summit 6 | Summit 7/8 | Summit 9/10 | Summit 11/12 | Summit 13/14 |
|---------|---|---|--|---|--|--|
| Session | Endocrinology & Physiology S55 | Symposium Undergrad Symposium S56 | Disease & Ecotoxicology S57 | Symposium Permeable Boundaries in Biological and Social Sciences: Human Dimensions in Bird Research and Conservation (Naves et Al.) S58 | Songs & Vocalizations S59 | Symposium Lessons from Avian Hybrid Zones and the Maintenance of Species Boundaries (Aguillon et Al.) S60 |
| 1400 | Chronic, Sublethal Effects of High Temperatures Will Cause Severe Declines in Arid-Zone Birds During the 21st Century Conradie SR, Woodborne SM, Cunningham SJ, McKechnie AE | Use of Thermal Imaging for the Study of Seabirds in the Gulf of Alaska: Implications for Management and Conservation Kidder EA, Sherwin R | *Geographic Variation in Host Immunogenetics and Malarial Parasite Infection in a Catharus Thrush Species Complex Starkloff NC, Sammons MA, Westerdahl H, Turner WC, Kirchman JJ | How Do Individual Attributes Predict Bird Conservation Behaviors Among Birders in the United States? <u>Rich TD</u> | Partitioning of Signal Space in a Breeding Warbler Community <u>Sblendorio JM</u> , Vonhof MJ, Gill SA | Mechanisms Underlying the Maintenance of Species Boundaries: Lessons from Avian Hybrid Zones Walsh JL, Aguillon SM, Clucas GV |
| 1415 | *Will Low Oxygen Slow Range Shifts? Response to a Novel High Elevation Environment from Populations Across a Hummingbird Range | Machine Annotation of Puaiohi Calls in Environmental Acoustic Recordings Weyenberg GS, Rumpungworn MD, Howells LO, Paxton KL, Crampton LH, Hart PJ | Regional Variation in the Abundance of House Finches Created the Context that Determined the Impact of an Emerging Pathogen <u>Hochachka WM</u> , Dhondt AA | Preferences of Birdwatchers and Waterfowl Hunters in the United States and Canada: Results of Discrete Choice Experiments (DCEs) Fulton DC, Dietsch A, Harshaw H, Raedeke A, Dayer A, Duberstein J | Examining the Effect of Helicopter Noise on Bird Assemblages in Hawai'i's Protected Natural Areas Gallardo Cruz KV, Paxton KL, Hart PJ | Genetic Architecture and Asymmetric Introgression of Plumage-Related Reproductive Barriers in Hybridizing Birds Semenov GA, Khaydarov DR, Safran RJ, Taylor SA |
| 1430 | *Out in the Cold: a Novel Approach to Understanding the Physiological Drivers of Phenotypic Flexibility in Dark-Eyed Juncos Stager M, Senner NR, Cheviron ZA | A Comparison Between Traditional and Next Generation Screening Approaches to Characterize Avian Haemosporidian Parasites Ray S, Henry M, Galen S, Ostrow EN, Dispoto J, Kiziuk L, Weckstein JD | Cross-Ecosystem Subsidies in Acadia National Park: How Invertebrates Can Help Us Understand Mercury Exposure in Songbirds Jackson AK, Frampton L, Garafalo M, Harris S, Nightingale B, Youre-Moses A | Quantifying the Stability of Birds' Cultural Niches: Changing Public Perceptions of the North American Avifauna <u>Schuetz JG</u> , Johnston A | *Developmental Experience May Contribute to Adult Female Preferences for Male Mating Signals <u>Strauss AV</u> , Podos J | Using Comparative Genomics to Investigate Non-Geographic Drivers of Divergence and Introgression in Panamanian Birds <u>McLaughlin JF</u> |
| 1445 | Long-Term Effects of Early-Life Stress on the HPA Axis in a Short- And Long-Lived Bird <u>Grace JK</u> , Anderson DJ, <u>Angelier F</u> | *Spatial Patterns of Habitat Use of the Sierra Madre Sparrow, Mexican and Endemic Mountain Bird, in Milpa Alta, Mexico City 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 | Assessing Halogenated Marine Persistent Organic Pollutants in the Critically Endangered California Condor and Their Marine Mammal Prey Stack ME, Hoh E, Dodder N, Tubbs C, Vilchis I, Felton R, Johnson J | Minimizing All-Terrain Vehicle Impact in Bird Habitat: Reconciling Harvest and Conservation on Private Land in Western Alaska Naneng W, Maroney RL, Naneng M, Tinker W | Morphologically, Genetically and Vocally Divergent Warbling Vireo Subspecies Exhibit Indiscriminate Aggression Toward Intruders in a New Contact Zone Spellman GM, Hammond A, Zhang T | Differences in Introgression Across Two Hybrid Zones in the Great Plains <u>Billerman SM.</u> Walsh J, Butcher BG, Lovette IJ |
| 1500 | Do High-Energy Lifestyles in Birds Promote High Maximal Metabolic Capacities? <u>Swanson DL</u> , Thomas NE, Zhang Y | *Effects of Lead Exposure on Reproductive Success and Extra-Pair Paternity in a Common Urban Songbird Hitt LG, Khalil S, Blanchette A, Finkelstein ME, Ribeiro RD, Iverson EN, McClelland SC, Karubian J | The Effects of Climate, Habitat, and Diet on Methylmercury Bioavailability for New York Songbirds <u>Adams EM</u> , Sauer AK, Lane O, Regan K, Evers DC | Prioritizing Regional Landscapes to Achieve Biological and Social Objectives Through Bird Habitat Conservation Soulliere GJ, Al-Saffer MA | *What Drives Flexible Signaling? Anthropogenic Noise and Social Context Affect Male House Wren Vocal Behavior Grabarczyk EE, Vonhof MJ, Gill SA | Evolutionary Genomics of Variable Carotenoid-Based Ornamentation in the Red-Backed Fairywren Khalil S, Walsh J, Enbody ED, Baldassarre DT, Webster MS, Karubian J |
| 1515 | From Shallow to Deep: A Torpor Spectrum in Hummingbirds Uncovered Using Thermal Imaging Shankar A, Cisneros IN, Thompson S, Graham CH, Powers DR | The Role of Song in Reproductive Isolation in Two Newly Overlapping White-Crowned Sparrow (Zonotrichia Leucophrys) Subspecies <u>Brooks WE</u> , Wimberger PH, Rouse ML | Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds? <u>Brasso RL</u> , Rittenhouse <u>KA</u> , Winder VL | Land Trusts and Birds: Partners in Strategic Conservation <u>Rodewald AD</u> , Swarthout SB, Dayer AA, Rohrbaugh RW | Who is There? Response to Different Type of Territorial Intruders <u>Sandoval L, Hamzaj T,</u> <u>Bonilla K, Gutierrez I</u> | Hybrid Zones and the Development of Reproductive Isolation in Flooded Versus Terra Firme Forest Birds of the Amazon <u>Weir JT</u> |
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Thursday, Late Afternoon Session *indicates student presenters eligible for AOS presentation award

| Room | Atwood Hall | Cook Theatre | Summit 1 | Summit 2 | Summit 3 | Summit 4 |
|---------|--|--|---|---|--|---|
| Session | Genomics & Systematics S61 | Behavior S62 | Symposium Cross-Pacific Migration: How the Impossible Becomes Commonplace (Ruthrauff & Gill) S63 | Symposium Molecular Ecology is for the Birds: Using Molecular Techniques to Advance Our Understanding of Avian Ecology (Jusino & Lorenz) S64 | Conservation S65 | Migration & Stopover S66 |
| 1600 | Identifying and Characterizing Transposable Element Polymorphisms in the Northern Flicker (Colaptes Auratus) Species Complex Hruska JP, Manthey JD | *Provisioning Coordination Increases with Mate Familiarity in a Long-Lived Pelagic Seabird, the Manx Shearwater Tyson CW, Gillies N, Guilford T, Hull JM | Migratory Patterns of Sooty Shearwaters (Ardenna Grisea) Across the Pacific Ocean Shaffer SA, <u>Harrison A</u> | Detecting Ecosystem Services from Insectivorous Birds <u>Jedlicka JA</u> | *Where in the World Are Migratory Birds Declining During the Annual Cycle? the Winter Survival of a Near Threatened Shorebird in South America Herbert JA, Mizrahi D, Taylor CM | |
| 1615 | Immigration May Decouple Heterozygosity and Inbreeding in Declining Populations of Florida Scrub-Jays Nguyen TN, Chen N, Bowman R, Fitzpatrick JW, Clark AG | Investigating the Role of Avian Vocalizations as 'Magic Traits' Using On-Bird Sensors Tarango CA, Sillett TS, Gomez AJ, Fitzpatrick JW | *Demographic and Distributional Responses by Long-Distance Migratory Shorebirds to the Rapid Loss of Staging Habitat <u>Chan Y</u> , Lok T, Chung SS, <u>Tibbitts TL</u> , Hassell CJ, Piersma T, Zhang S | Using Molecular Techniques to Study the Diets and Gut Microbiota of Migratory Birds **Trevelline BK** | *What Factors Influence Nest Survival of the Endangered Yellow-Headed Amazon? Tarazona-Tubens FL, Britt CR, Abadi F, Desmond MJ | Movement and Distribution of Red Knots (Calidris Canutus) in the Southeastern U.S <u>Tuma ME</u> , Powell AN |
| 1630 | Phylogeny of the Hawaiian Thrushes (Myadestes) Based on UCE and Mitochondrial DNA Sequences Fleischer RC, McInerney N, McIntosh CE, Sonsthagen SA, Olson S, James H | Hierarchical Fear: Predation Risk Has Direct and Indirect Effects on Nestling Growth and Stress de Zwaan DR, Martin K | Cross-Seasonal Interactions: The Pacific | Using Box-Nesting Birds to Explore Methods in Studying Developmental Immunity and Gut Microbiota <u>Knutie SA</u> | Effects of Translocation on Burrowing Owl (Athene Cunicularia) Survival, Fidelity, and Nesting Rates in Arizona Doublet D, Desmond MJ, Johnson DH, Abadi F | Movement Patterns and Habitat Use of Endangered Whooping Cranes During Migration Through Canada's Oil Sands Mining Region Bidwell MT, Conkin JA, Ball J, Brandt DA, Harrell W, Kindopp R, Metzger K, Pearse AT, Wiacek R |
| 1645 | Reconciling the Mitonuclear Compatibility Species Concept with Rampant Mitochondrial Introgression Hill GE | Increased Predator Density Changes Nest Attendance Behavior of Yellow-Headed Blackbirds (Xanthocephalus Xanthocephalus) Harms TM, Behrens C, Ruff ZJ, Dinsmore SJ | as the World's Greatest Theater of Bird Migration Piersma T | Anthelminthic Drugs Modulate the Acute Phase Immune Response but Not the Microbiome in Wild Song Sparrows Vaziri GJ, Jusino MA, Brewer MT, Adelman JS | Landscape Matrix and Species Traits Mediate Avian Responses to Forest Fragmentation Kennedy CM, Marra PP | Revisiting Red-Winged Blackbird Migration: Fine-Scale Temporal and Spatial Movements of Individuals Across Annual Migration Eshleman MA, Klug PE, Greives TJ, Gillam EH |
| 1700 | The Common Yellowthroat Genoscape- a Genomic Approach to Delineating Conservation Units Bossu CM, Rajbhandary J, Smith TB, Ruegg KC | Parental Behaviors Mediate the Effects of Bird Blow Fly Ectoparasitism on Nestling Wood Thrushes in Suburban Forests Straley KM, Warren PS, King DI | | Assessing the Relationship Between Multiple Paternity and the Cloacal Microbiome in Female Tree Swallows Hernandez J, McGlothlin JW, Belden LK, Moore IT | *Demographic Consequences of Road Mortality to Snowy Plovers at Gulf Islands National Seashore, FL <u>Durkin MM</u> , Cohen JB | Age-, Sex-, and Size-Related Differences in the Distribution of Migrating Landbirds on the Northern Gulf Coast <u>Calderon LN</u> , Zenzal Jr TJ, Barrow W, Wilson B, Buler JJ |
| 1715 | A Genomic Investigation of the Potential Despeciation of Deeply Divergent Lineages in a Malagasy Passerine Perry NL, Block NL, Younger JL, Raherilalao M, Goodman SM, Reddy S | Testing the Social Intelligence Hypothesis in Wild Birds McCune KB, Jablonski P, Lee S, Ha RR | | Panel Discussion | When Prioritizing Regions for Migratory Bird Habitat Conservation, Quantifying Costs Can Supersede Parametrizing a Population Model Stanton Jr RA, McGowan CP, Robinson OJ | *Assessing the Potential for Using Weather Radar to Predict Bird Collisions Elmore JA, Horton KG, Riding CS, O'Connell TJ, Loss SR |

Thursday, Late Afternoon Session *indicates student presenters eligible for AOS presentation award

| Room | Summit 5 | Summit 6 | Summit 7/8 | Summit 9/10 | Summit 11/12 | Summit 13/14 |
|---------|--|---|---|---|---|--|
| Session | Human Dimensions & Policy S67 | Symposium Undergrad Symposium S68 | Urban Ecology S69 | Symposium Permeable Boundaries in Biological and Social Sciences: Human Dimensions in Bird Research and Conservation (Naves et Al.) S70 | Morphology & Molt S71 | Symposium Lessons from Avian Hybrid Zones and the Maintenance of Species Boundaries (Aguillon et Al.) S72 |
| 1600 | *Wedge-Tailed Shearwater Persistence in Human-Dominated Areas <u>Idle JL</u> , Friswold BM, Harmon KC, Price MR | *Development, Not Bird Feeders, is Associated with Increased Occupancy of Northern Cardinals in Northern Michigan <u>Toner SM</u> , Bonter DN | *Investigating the Influence of Polarized Light and Artificial Night Lighting on Bird-Building Collisions <u>Lao S</u> , Anderson AW, Blair RB, Eckles JW, Robertson BA, Turner RJ, Loss SR | *Aspects of Municipalities Associated with Occupancy and Abundance of Chimney Swifts in Illinois Hurd ML, Benson TJ, Ward MP | The Role of Diet and Nesting in Bill Shape Diversification of Frugivorous Asian Barbets Krishnan A, Souza N, Reddy S | Hybridization in Northern Flickers Reveals Loci Associated with Feather Coloration <u>Aguillon SM</u> , Lovette IJ |
| 1615 | If You Build It, They Will Come: Avian Utilization and Predation at a Large-Scale Photovoltaic Solar Facility Griffiths JL, Meade DE, Dart JD | *Integrating Machine Learning and Citizen Science Data to Generate High-Performing Species Distribution Models for the Globally Vulnerable Gray Tinamou (Tinamus Tao) <u>Wiebe RA</u> | Urbanization and Elevated Cholesterol in American Crows <u>Townsend AK</u> , Staab H, Barker CM | Cross-Cultural Considerations in Wildlife Management and Conservation <u>Leonetti CC</u> | Glare Reduction Properties of Dark Avian Facial Markings <u>Lebow CK</u> , Burt DB | Cardinals Are Red, Buntings Are Blue; Because They Hybridize, They're Interesting Too! Megna LC, Carling MD |
| 1630 | Year-Round Monitoring Reveals a Unique Seasonal Pattern of Bird-Window Collisions Along the Pacific Coast of North America <u>De Groot KL</u> , Porter AN, Norris AR, Huang AC | *Modeling Persistent Effects of West Nile Virus on Avian Population Dynamics in the Northeastern United States <u>Dupont GL</u> , Bonter DN, Robinson OJ | | Sustainability in Long-Term Collaborations: The Harvest Assessment Program of the Alaska Migratory Bird Co-Management Council Naves LC, Fall J, Tulik C, Pederson M, Keating JM, | Evolution of Molt-Migration: a Large-Scale Phylogenetic Approach Pageau C, Reudink MW | Sex Chromosome Inversions May Enforce Reproductive Isolation Across an Avian Hybrid Zone Hooper DM, Griffith SC, Price TD |
| 1645 | Engaging Undergraduate Students in an Authentic Course-Based Research Experience Using Archived Nest Video Footage <u>Stracey CM</u> | Panel Discussion | Relationships Between Local- And Landscape-Scale Management and Urban Bird Communities Across Six Major Metropolitan Areas: Do Yards Matter? Narango DL, Lerman SB, Hall SJ, Hobbie SE, Neill C, Trammell TL, Groffman P | Banding Together to Learn and Preserve: 25 Years of Research in Cross-Cultural Western Alaska <u>Ely CR</u> | Molt-Migration in the Mexican Monsoon: 90 Years of Specimens Reveal a Phenological Mismatch Caused by Anthropogenic Climate Change Terrill RS, Tsai WL, Maley JM, Rohwer S, Pimm G, McCormack JE | Genomic and Morphological Approaches to Understanding Speciation in Jamaican-Endemic Streamertail Hummingbirds Judy CD, Brumfield RT, Graves GR |
| 1700 | Engaging with Veterinarians to Reduce Cat Overpopulation and Cat Impacts on Wildlife Populations Sherwood LJ, Wilson AG, South CS, Roche SM, Luszcz TM | | Songbirds Alter Their Use of Bird Feeders in Response to Vocalization Playback <u>Barron DG</u> , Sarna SD, <u>Middleton RL</u> | Human Dimensions Applications in Shorebird Subsistence Harvest and Indigenous Knowledge in Alaska Keating JM, Naves LC, Tibbitts TL, Ruthrauff DR | Simultaneous Rectrix Molt and Comparative Molt Ecology of Eastern Wood-Warblers <u>Mumme RL</u> , Mulvihill RS | Ancient and Contemporary Hybridization Amongst Wood Warblers <u>Toews DP</u> , Taylor SA, Streby H, Kramer G, Brennan C, Jones A, Lovette IJ |
| 1715 | Evaluating Bird Feeders as Tools to Connect People with Nature, and Challenges Associated with Middle School Interventions Hammond RL, Theimer TC | | *Effects of Habitat Type on Provisioning Florida Burrowing Owl Space Use and Movements <u>Rose EH</u> , Boughton RK | Panel Discussion <u>Dayer A</u> | Bill Size Evolution in Response to Human-Mediated Ecological Change in a Tidal Marsh Songbird Benham PM, Bowie RC | Assessing Assortative Mating in Hybrid Zones <u>Scordato ES</u> |

Friday, Morning Session *indicates student presenters eligible for AOS presentation award

| Room | Arteaga Theatre | Cook Theatre | s student presenters eligible for Summit 1 | Summit 2 | Summit 3 | Summit 4 | |
|-------------|--|---|---|--|---|---|--|
| Session | Habitat Relationships S73 | Breeding Biology S74 | Movements & Dispersal S75 | Lightning Talks S76 | Evolutionary Ecology S77 | Behavior S78 | |
| 1030 | The Importance of Dynamic Conservation Programs to Shorebirds in California's Central Valley Golet GH, Dybala K, Reiter M, Sesser K, Reynolds M, Barfield J, Spraycar P | Can Renesting Be an Effective Reproductive Strategy and How Does it Influence Conservation of a Threatened Shorebird Species? Swift RJ, Anteau MJ, Ring MM, Toy DL, Wagner HR, Sherfy MH | Investigating Aleutian Tern Breeding Season Movements Using Satellite Telemetry Nesvacil KA, Lyons DE, Oehlers S, Skinner J, Mondragon J | Urban Bird Community Shifts in Arizona Allen DC et al. Community Change in Acadia National Park Ruskin KJ et al. Habitat Use of Hawaiian Short-eared Owls Wilhite CJ et al. | Speciation on an Island: Genetic Differentiation in Penguins and Shags Burg TM, Guevara-López J, Perkins N, Bost CA | New Technologies and Analytical Opportunities for Improved Inference About Avian Social Structure <u>Clements SJ</u> , Silk MJ, <u>Hodgson DH</u> , Weegman MD | |
| 1045 | *Multi-Scale Approach to Evaluating Space Use in Invasive Avian Dispersers and the Implications for Seed Dispersal Wilcox RC, Tarwater CE | Nest Initiation Time and Distance to Water Predict Nest Success of the Hawaiian Stilt in Wetlands on O'ahu Harmon KC, Wehr NH, Price MR | Preferred Orientation of Vagrant Passerines During Autumn Migration Zawadzki LC, Taylor PD, Guilford T | Habitat Use in Agricultural Fields Reiley BM et al. Benefits of Canada Goose Egg Addling Edelstein DA et al. Declining Snowpack Limits High-elevation Bird Brown TM et al. | The Genomic Landscape of Microgeographic Adaptive Divergence in an Island Endemic Cheek RG, Funk WC, Sillett TS, Ghalambor C | Using Playback Experiments to Investigate Species Discrimination in a Hybridizing Population of Blue-Winged and Golden-Winged Warblers Janik AE, Vonhof MJ, Gill SA | |
| 1100 | Habitat Modeling for Desert Thrashers <u>Fletcher DM</u> , Harter LB, <u>Ammon E</u> | Impacts of the December 2016 to August 2017 Bogoslof Island Eruption Event on a Major Alaskan Seabird Colony <u>Rojek NA</u> , Drew GS | Agent-Based Modeling and Simulation What's in it for Ornithologists? <u>Clemen T</u> , Lenfers UA, <u>Bradshaw K</u> | Snags and Cavity Usurption Affect Cavity-nesting Birds in Longleaf Pine Levy HE et al. Is Kluane Lake a Superhighway for Migrating Golden Eagles? Paprocki NA et al. Earlier Spring Arrival of Migrants in Turkey Homs IJ et al. | Genetic Connectivity and Differentiation among Horned Larks (Eremophila Alpestris) Along an Elevational Gradient in the White Mountains of California Wang-Claypool CY, Mason NA, Cicero C, Bowie RC | Landscape-Level Information Use Shapes Brown Pelican (Pelecanus Occidentalis) Foraging Behaviors Geary B, James WR, Karubian J, Nelson JA, Leberg PL | |
| 1115 | Spanning the Habitat Gradient: Red-Headed Woodpecker Nest-Site Selection in Three Distinct Cover Types <u>Nickley BM</u> , Bulluck LP | Measuring Impacts of Non-Native Species on Cavity-Nesting Birds at the Continental Scale Bailey RL, Faulkner HA, Martin VY, Phillips TB, Bonter DN | Alternative Pathways to Success: Transient Dispersers in a Cooperative Breeding Corvid Suh Y, Dent ML, Fitzpatrick JW, Bowman R | Nocturnal Calls Influence Vulnerability to Artificial Light Winger BM et al. Winter Movement of Brown-capped Rosy-Finches Yappert AA et al. | Assessing the Influences of Habitat Structure on Bird Song Propagation Hardt BM, Benedict L | Age-Related Variation in Bite Force in a Long-Lived Seabird in the Galapagos <u>Rebol EJ</u> , Anderson DJ | |
| 1130 | Innovations in Measuring Habitat: Nest-Site Selection of Grassland Songbirds in Northern Mixed-Grass Prairies Guido NA, Correll MD, Ruskin KJ, Olsen BJ, Bernath-Plaisted J | Decadal Shifts in Patterns and Benefits of Nesting Near Territorial Predators by Tundra-Nesting Sea Ducks Miller MW, Lovvorn JR, Graff N, Stellrecht N, Quakenbush LT, Safine DE | Pacific Arctic Seabird Communities: a Decade of Change Viewed Through the Lens of the Distributed Biological Observatory's At-Sea Surveys Kuletz KJ, Cushing D, Osnas E, Labunski EA, Gall A | | Factors Mediating Reproductive Isolation Between Related Species at Contact Zones Kirschel AN, Nwankwo EC, Monadjem A, Grether GF, Brelsford A | Effects of Non-Breeding Rainfall on Signal Development, Social Behavior, and Reproductive Success in Red-Backed Fairywrens Welklin JF, Lantz SM, Khalil S, Karubian J, Webster MS | |
| 1145 | Woodpecker Nest Survival and Density in Relation to a Pine Beetle Outbreak <u>Saab VA</u> , Latif QS, <u>Dresser M</u> , Dudley J | Consequences of Nest Outcome on Investment into Later Broods by Gray Catbirds <u>Redmond LJ</u> , Haq JI, Noble D, Ricco D | *Seasonal and Directional Dispersal Behavior in an Ongoing Dove Invasion Slager DL | | Life History Structures Phenotypic Variation in Avian Functional Traits <u>DuBay SG</u> | Variability in the Use of Acoustic Space Between Two Tropical Forest Bird Communities <u>Hart PJ</u> , Paxton KL, Tredinnick G | |
| LUNCH BREAK | | | | | | | |

Friday, Morning Session *indicates student presenters eligible for AOS presentation award

| Foraging & Food Habits S79 | posium re of Global it Datasets: e-changing urce for oecology, olution and ervation o (Tobias et Al.) S84 story Trait on Across a Elevational adient i JE, Scholer ondono GA |
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| Abundance from Unmarked Populations: Requirements, Assumptions, and Finding the Best Method for Your Research Amundson CL, Latif QS, Valente J Considerations for Making Strong Infere | on Across a Elevational adient i <u>JE</u> , Scholer indono GA |
| Canada Jay (Perisoreus Canada Jay (Perisoreus Canadensis) Foraging Ecology in Denali National Park and Preserve, Alaska Swift KN, Marzluff JM, Williams EJ Trophic Transfer of Energy via Nestling Wading Birds to a Scauger Comparing Analytical Webcams as an Untapped Opportunity to Conduct Citizen Science: Six Years of the American Kestrel The Role of EBird in Fine-Scale Distribution and Density Modeling Strong Inference from Large-Scale Monitoring Programs Evolutionary Changes Following a Successful Host Shift: The Case of Mycoplasma Gallisepticum Dhondt AA, Dhondt KV, Dobson AP, Geary SJ, Hawley DM, Hochachka WM, Ley DH, Pflaum K, Reinoso-Peres M, Tulman Recharging Groundwater Gradient The Role of EBird in Fine-Scale Distribution and Density Modeling Strong Inference from Large-Scale Monitoring Strong Inference fr | enetic and |
| Trophic Transfer of Energy via Nestling Wading Birds to a Wading Birds to a Scaepner Community in Manager of the American Kestrel Wading Birds to a Scaepner Community in Manager of the American Kestrel Wading Birds to a Scaepner Community in Manager Community i | 1 Structure of communities a Tropical nal Gradient S, Shakya SS, H, Moyle RG, retin TE |
| an Oligotrophic Wetland Partnership's KestrelCam Point Counts Point Counts Barfield I Robde M Golet | ct of Species on Latitudinal its in Trait on in Birds |
| Metabarcoding to Determine Seaside Sparrow Diet Following Large-Scale Disturbances Sounder AM, Bonisoli Drymon M, Feldheim K, Sounder AM, Bonisoli Alargeti A, Woltmann S Townsight Sounder F. Sounder AM, Bonisoli Drymon M, Feldheim K, Townsight Sounder F. | of Divergent n in ''Biotic " Traits Faster opics? a Test Bird Beaks G. Schluter D, iias JA |
| Contribution of Arthropod Taxa to the Diet of Birds? Verkuil YI, Ubels R, Campbell-Smith JA. Contribution of Arthropod Taxa to the Diet of Birds? Verkuil YI, Ubels R, Campbell-Smith JA. Cooney CR, A. Cooney CR | togeographic ts in Avian ouration He Y, Thomas GH |
| Seasonal Variation in Biofilm Consumption by Migratory Western Sandpipers (Calidris Mauri) Hall LA, De La Cruz SE, Seasonal Variation in Biofilm Consumption by Management Guidelines for Land Managers in Northern Hardwood Forests Seasonal Variation in Biofilm Consumption by Migratory Western Sandpipers (Calidris Mauri) Biases in Point-Count Data? Integrating Roadside Surveys and New Technologies New Technologies Solymos P, Matsuoka SM, Van Wilgenburg SL, Solymos P, Matsuoka SM, Van Wilgenburg SL, Solymos P, Matsuoka SM, Van Wilgenburg SL, May CA, Ewert DN Designing Coastal Conservation to Achieve Both Ecological and Human Well-Being Goals Woodly Migratory Western Sandpipers (Calidris May CA, Ewert DN Solymos P, Matsuoka SM, Van Wilgenburg SL, | Habitat, and phic Range rive Plumage nd Mimicry in lpeckers Leighton GM, BG, Lees AC, |
| Takekawa JY Treyger SM, Burger MF Stralberg D, Cumming SG, Bayne EM LUNCH BREAK | on RA |

7riday. Early 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 S85 | Symposium Long-term Studies of Cavity-nesting Birds: Windows into Environmental Change (Duckworth & Fair) S86 | Annual Cycle S87 | Symposium Seabirds on the Edge of Two Worlds: Ecology and Conservation of Brachyramphus Murrelets in Marine and Terrestrial Environments (Rivers & Kissling) S88 | Evolution S89 | Population Biology S90 |
| 1400 | Survival, Habitat Selection, and Behavior of Post-Fledging Golden-Cheeked Warblers <u>Trumbo EM, Brawn MP,</u> Brawn J | Insights into Adaptation and Population Change from Long-Term Studies of Cavity-Nesting Birds <u>Duckworth RA</u> | Carry-over Effects of Breeding Season Habitat on a Long-Distance Migrant Boyd BP, Stutchbury BJ, Hayes SM | Inter-Annual Variation in Marbled Murrelet (Brachyramphus Marmoratus) Breeding Activity in Western Oregon Rivers JW, Adrean L, Nelson SK, Garcia-Heras M, Roby D, Betts M | Skeletal Distribution of Medullary Bone in Neornithes - Implications for the Identification of Reproductive Tissues in Non-Avian Dinosaurs <u>Canoville AR</u> , Schweitzer <u>MH</u> , Zanno LE | Pintail Populations Became More Vulnerable to Climate Change Under Agricultural Intensification Zhao Q, Arnold T, Devries J, Howerter D, Clark B, Weegman MD |
| 1415 | Population Genetics of a Beringian Endemic, Rock Sandpiper <u>Pruett CL</u> , Winker KS | Long-Term Responses to Environmental Change Across Multiple Scales in the Great Tit Sheldon BC | Large-Scale Phenological Dynamics of North American Passerines Youngflesh CC, Socolar JB, Tingley MW | Can Oceanic Effects on Growth and Time to Fledging Mediate Terrestrial Predator Limitation of an At-Risk Seabird? Knudson TW, Lovvorn JR, Lawonn MJ, Corcoran RM, Roby DD, Piatt JF, Pyle WH | Replicated Invasions Reveal Hotspots of Natural Selection in the European Starling Hofmeister NR, Rollins LA, Stuart K, Werner SJ, Lovette IJ, Clayton DF | When the Freezer Breaks: Will Climate Warming Impact the Persistence of Resident Birds in Alaska? Williams EJ, Phillips LM, Grigsby T, Norris R, Chicalo R, Marzluff JM, Swift KN |
| 1430 | How Do Seabirds See Light? Spectral Effects on the Temporal Sensitivity of Hawaiian Seabirds <u>Moon HE</u> , Anderson T, Travers M, Loew E, Porter M | Sneuan DC | Nocturnal Bird Migration and Light: Midnight Sun, a Solar Eclipse and Artificial Light Nilsson CH, Horton KG, Dokter A, Van Doren B, Farnsworth A | Breeding Propensity and Causes of Nest Failure for Marbled Murrelets in Washington State <u>Lorenz TJ</u> , Raphael MG, Bloxton TD | Testing for Adaptive Introgression Across Elevation in a Rapid Radiation, the South American Siskins (Spinus) <u>Beckman EJ</u> , Witt CC | Population Ecology of Spruce Grouse in Commercially-Managed Forests Blomberg EJ, Tebbenkamp J, Dunham S, Harrison D |
| 1445 | The Endangered Black-Capped Vireo (Vireo Atricapilla): Status After 30 Years of Recovery Management in Oklahoma, USA Grzybowski JA, McDonald DT | Long-Term Effects of Environmental Change on Two Cavity Nesting Passerines Bartlow AW, Wysner TE, Musgrave KS, Hathcock CD, Fair JM | Breeding Ground Habitat Loss is the Primary Driver of Population Declines for a Long-Distance Migratory Songbird Hallworth MT, Marra PP, Bayne E, Love OP, McKinnon E, Tremblay JA, Van Wilgenburg SL, Drolet B, Ibarzabal | Breeding Ecology of Kittlitz's Murrelets in the Aleutian Islands, Alaska <u>Kaler RS</u> , Kenney L, Williams J, Piatt J | The Indirect Effect of Flight Demands on Egg Shape in Migratory and Sedentary Fork-Tailed Flycatchers (Tyrannus Savana) Gómez-Bahamón V, Chen ER, Tuero DT, Assis M, Marini MĀĆ, Bates J | Long-Term Change in the Intrinsic and Extrinsic Drivers of Individual Fitness <u>Arcese P</u> , Germain R |
| 1500 | The Effects of Habitat Management and Landscape Context on Northern Bobwhite Winter Survival in Southwest Missouri Mosloff AR, Weegman MD, Thompson FR, Thompson T | Using Nestboxes to Understand if Landscape Influences American Kestrel Reproduction and Movements Along an Urban Gradient in Northern Utah | Hatching Date Influences Winter Habitat Quality: Examining Seasonal Interactions Across the Full Annual Cycle in Prairie Warblers <u>Akresh ME</u> , King DI, Marra PP | Space-Use of Nesting and Non-Nesting Brachyramphus Murrelets in Icy Bay, Alaska, 2007–2012 Kissling ML, Lukacs PM, Lewis SB, Gende SM | Unidirectional Introgression Between Rhegmatorhina Hoffmannsi and R. Berlepschi in the Amazon Forest Del-Rio GC, Rego MA, Whitney BM, Schunck F, Silveira LF, Faircloth BC, Brumfield RT | Comparative Demography at the Core and Southern Edge of the Black-Throated Blue Warbler Breeding Range Chandler RB, Chitwood R, Lewis W, Sillett TS, Cooper RJ |
| 1515 | Mapping Wetland Habitat Using Remote Sensing Data for the Critically Endangered White-Bellied Cinclodes (Cinclodes Palliatus) <u>Gibbons RE</u> , Otto M | Connecting Environment, Stress Coping Capacity, and Fitness: Insights from a Nest-Box Breeding Population of Tree Swallows (Tachycineta Bicolor) <u>Vitousek MN</u> | Geolocators and Stable Isotopes Reveal the Migratory Route and Overwintering Locations of an Arctic-Breeding Passerine McFarland HR, Will A, Powell AN | Wide-Ranging Movements and Long Nest-Sea Commutes by Marbled Murrelets in Washington Lorenz TJ, Raphael MG, Bloxton TD | Evolutionary Genomics of the Brown Creeper Manthey JD, Klicka J, Spellman GM | Unintended Consequences of Translocation: Reproductive Skew and Reduced Effective Population Size in the Red-Cockaded Woodpecker Bowman R, Thompson GT, Angell E |
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Friday, Early Afternoon Session *indicates student presenters eligible for AOS presentation award

| Room | Summit 5 | Summit 6 | Summit 7/8 | Summit 9/10 | Summit 11/12 | Summit 13/14 | | |
|--------------|--|---|---|---|--|---|--|--|
| Session | Disease & Parasites S91 | Abundance, Occupancy, Trends S92 | Symposium Counting Unmarked Birds: Matching Appropriate Sampling and Modeling Techniques with Particular Research Questions (Latif & Valente) S93 | Symposium Wild Birds and the One Health Initiative: Dynamic Boundaries Affect the Health of Birds, Livestock, Humans, and the Environment (Ramey) S94 | Symposium Translational Ecology - Producing Actionable Science (Saunders et Al.) S95 | Symposium The Future of Global Bird Trait Datasets: A Game-changing Resource for Macroecology, Macroevolution and Conservation Biology? (Tobias et Al.) S96 | | |
| 1400 | Extensive in Situ Radiation of Feather Lice on Tinamous <u>Virrueta Herrera S,</u> Weckstein JD, Sweet AD, Allen JM, Walden KK, Johnson KP | Population Trends and Connectivity of Snowy Plovers on the Southern Great Plains Heath KM, Conway WC, Boal CW, Collins DP, Beauchamp JS, Johnson WP, Hensley G, Saalfeld ST, Grisham BA | What About Those Rare Species? Study Design Implications for Multi-Species Avian Monitoring Programs <u>Sanderlin JS</u> , Ganey JL, <u>Block WM</u> , Schwartz MK, <u>McKelvey KS</u> | AntiBiotic Resistance Dissemination Through Wild Birds <u>Bonnedahl J</u> | Creating a Win-Win for Ranchers and Waterbirds Through Co-Produced Conservation (Social) Science Dayer AA, Sketch M, Anders L, Metcalf A | Exploring the Links Between Morphological Form and Ecological Function in Birds <u>Tobias JA</u> | | |
| 1415 | Ecological Drivers of Backyard Bird Feeding and Consequences for Parasite Transmission <u>Hall RJ</u> | Trends in Abundance and Habitat Associations of Forest Birds on Southern National Forests 1992-2017 Matseur EA, Bonnot TW, Thompson FR, Thorning MG | Estimation of Occupancy Parameters for Breeding Birds on the Basis of Single-Visit and Multiple-Visits Point-Count Designs Leu M, Scherer RD, Jirinec V, Fleishman E | | Co-Production of a Continental-Scale Movement and Energetics-Based Framework for Collaborative Management of Waterbird Populations Thogmartin WE | Stranger Things: Elaboration and Innovation of Island Avifaunas <u>Thomas GH</u> , Cooney C, Beckerman A, Bright J | | |
| 1430 | Role of Food Availability on a Bird's Response to a West Nile Virus Infection <u>Owen JC</u> , Dupuis AP, Landwerlen H, Kramer L | Long-Term Avifaunal Change in Undisturbed Amazonian Rainforest: Pervasive Declines and Shifting Baselines Stouffer PC, Rutt CL, Jirinec V, Midway SR | The Impacts of Temporary Emigration on Colonization and Extinction Estimates in Dynamic Occupancy Models Valente JJ, Hutchinson RA, Jirinec V, Leu M, Betts MG | Whole Genome Sequencing Provides Inference on the Epidemiology of AntiBiotic Resistant Bacteria in Wild Birds Ahlstrom CA, Bonnedahl J, Ramey A | Developing a Unified Framework for Avian Monitoring in Pacific Northwest Estuaries <u>Bayard TS</u> , Slater G, Spragens K, Koberstein M, Summers A | Global Raptor Research and Conservation Priorities: Tropical Raptors Fall Prey to Knowledge Gaps Buechley ER, Santangeli A, Girardello M, Neate-Clegg MH, Oleyar D, McClure CJ, Sekercioglu CH | | |
| 1445 | Sialic Acid Quantity and Glycosidic Linkage on Avian Erythrocytes <u>Fair JM</u> , Jankowski M, Glaberman S, Kimball D, McCabe K | Estimating Hawaiian Songbird Population Density Using Machine-Learning Produced Annotations of Automated Acoustic Recordings Weyenberg GS, Rumpungworn M, Howells L, Paxton KL, Crampton LH, Hart PJ | Nested Sampling of Forest Restoration Treatments Reveals Different Species Occupancy and Richness Patterns Depending on Spatial Scale Latif QS, Pavlacky DC, Sparks RA, Truex RL | Prevalence, Diversity, and Transmission of Blood Parasites in Alaskan Avifauna | Moving Bird Conservation Forward Through Collaborative Action Targeting Grasslands and Wetlands in the Chicago Wilderness Region Beilke SJ, Miller N, Suarez D, Kasberg B | Global Patterns and Predictors of Dispersal-Trait Variation in Birds Sheard CE, Neate-Clegg M, Alioravainen N, Jones SE, Vincent C, MacGregor HE, Bregman TP, Seddon N, Tobias JA | | |
| 1500 | Avian Genomic 'Bycatch' Facilitates the Study of Symbiont Ecology and Evolution <u>Galen SC</u> , Perkins S | Factors Related to Occupancy Dynamics and Breeding Propensity of Northern Spotted Owls in a Protected Area: Habitat, Weather and Barred Owls Dugger KM, Mangan AO, Chestnut T, Vogeler JC, Breckheimer IK, King WM, Bagnall KE | Broad-Scale Monitoring to Evaluate the Contribution of Local Conservation to Regional Bird Populations <u>Green AW</u> , Pavlacky DC | Smith MM, Van Hemert C, Meixell B, Handel C, Ramey A | Shared Stewardship for Bird Conservation: Linking Backyard Habitats, Citizen Science and Yard Management Lerman SB, Marra PP, Reitsma R, Evans BS, Narango DL, Clipp H | What Information Do We Need to Anticipate the Interaction Pattern of a Hummingbird? <u>Martin Gonzalez AM</u> | | |
| 1515 | Haemosporidians Show Seasonal Patterns but Little Host Specificity Within a Chickadee Hybrid Zone <u>Rice AA</u> , Curry RL, <u>Weckstein JD</u> | Applying an Ensemble of Small Models to Predict Breeding Distribution of Virginia's Warbler in South Dakota Goljani Amirkhiz R, Dixon MD, Palmer JS, Swanson DL | On Point Count Sampling for Understanding Recruitment, Survival and Movement Zhao Q | Panel Discussion | Reducing the Impacts of Cats on Birds in Canada Through Collaborative Efforts with Multiple Stakeholders | Sex Biases in Natural History Collections and Consequences for Bird Trait Studies <u>Cooper N</u> | | |
| COFFEE BREAK | | | | | | | | |

7riday, 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 S97 | Symposium Long-term Studies of Cavity-nesting Birds: Windows into Environmental Change (Duckworth & Fair) S98 | Migration & Stopover S99 | Symposium Seabirds on the Edge of Two Worlds: Ecology and Conservation of Brachyramphus Murrelets in Marine and Terrestrial Environments (Rivers & Kissling) S100 | Genomics S101 | Behavior S102 |
| 1600 | Site Fidelity and Pairing Behavior in a Wintering Population of American Kestrels in North Texas <u>Biles KS</u> , Bednarz JC | Long-Term Dynamics of Tree-Cavity-Nesting Communities in Temperate and Subtropical Forests | Global Trends in Avian Partial Migration: a Meta-Analysis Zavaleta ES | Breeding Season Movements and Marine Habitat Use by the Marbled Murrelet in Oregon Garcia-Heras M, Adrean LJ, Nelson SK, Roby DD, Betts MG, Rivers JW | Population Genomics of Greater White-Fronted Goose Wilson RE, Sonsthagen SA, Ely CR, Talbot SL, DaCosta JM, Sorenson MD, Scribner KT, Weaver M, Skalos D | Timing of Breeding in American Coots: Bet-Hedging Against Nest Predation When Reproductive Performance Declines with Season |
| 1615 | Life on the Edge: Density and Demography of Marsh Wrens and Seaside Sparrows in Northeastern Florida Schwarzer AC, Cox WA | Norris AR, Cockle KL, Wiebe KL, Trzcinski MK, Edworthy AB, Martin K | Migration of Buff-Breasted Sandpipers at Two Key Regions in the Mid-Continent: Northern Gulf of Mexico and the Flint Hills Lyons JE, Andres BA, Penner RL, Stone K, Wolfenbarger LL | Distribution and Use of Freshwater Habitats by Kittlitz's Murrelets on Lakes in the Lower Wood River Lake System, Alaska <u>Nesvacil KA</u> , Pendleton G, Swaim M, Walsh P | The Long and the Short of It: Linking Genome-Wide Signatures of Selection Across Evolutionary Timescales in Birds Shultz AJ, Arnold B, Sackton TB | Manipulated Sex Ratios Alter Group Structure and Cooperation in the Brown-Headed Nuthatch <u>Cox JA</u> , Cusick JA, DuVal EH |
| 1630 | Saving the Kiwikiu (Pseudonestor Xanthophrys): Recovery Efforts in Maui, Hawaii Mounce HL, Farmer C, Berry L, Masuda B, Warren C, Berthold L, Duvall F | Population Increases Despite Habitat Saturation: What Can We Learn from Five Decades of Research? <u>Walters EL</u> , Hagemeyer ND, Barve S, Pesendorfer MB, Koenig WD | Migratory Bird Twilight Ascent and Descent Rates Along the Southwestern Shoreline of Lake Erie <u>Wellik MJ.</u> Kirsch EM, Sheildcastle M | Seasonal Offshore Distribution and Habitat Use of Brachyramphus Murrelets in Alaska <u>Labunski EA</u> , Kuletz K, Osnas E | Comparative Genomic Structure Within Alaskan Galliforms Sonsthagen SA, Wilson RE, Merizon RA, Talbot SL | Helpers Mitigate Negative Effects of Predation Threat in the Cooperatively Breeding Purple-Backed Fairy Wren Meyer DK, Kinnebrew E, Pruett-Jones S, Johnson AE |
| 1645 | Forest Area Required to Support Landbird Population Goals for the Mississippi Alluvial Valley Twedt DJ, Mini A | Consequences of Long-Term Habitat Change and Resource Selection for Population Limitation in | Migratory Behavior of the Western Burrowing Owl: Connecting Canada, United States, and Mexico Conway CJ, Wellicome TI, Johnson DH, Conley JL, Lundblad CG, Bruinsma DR, Fisher RJ | Consistent Post-Breeding Movements of Marbled Murrelet from British Columbia to Alaska (2014-2016) Bertram DF, MacDonald CA, O'Hara PD, Cragg JL, Corcoran R, Greene R, Woo K | | |
| 1700 | Do Piping Plovers in the Northern Great Plains Function as a Metapopulation & Why Does it Matter for Conservation? <u>Anteau MJ</u> , Swift RJ, Sherfy MH, Toy DL, Ring MM | Cavity-Nesting Birds <u>Martin TE</u> | | Post-Breeding Migration of Kittlitz's Murrelets from the Gulf of Alaska to the Bering Sea and Beyond Douglas DC, Piatt JF, Arimitsu ML, Madison EN, Kissling ML, Schoen SK | | |
| 1715 | | Panel Discussion <u>Fair J</u> | | | | |

7riday, Late Afternoon Session *indicates student presenters eligible for AOS presentation award

| Room | Summit 5 | Summit 7/8 | Summit 9/10 | Summit 11/12 | Summit 13/14 |
|---------|---|--|---|--|--|
| Session | Management & Policy S103 | Symposium Counting Unmarked Birds: Matching Appropriate Sampling and Modeling Techniques with Particular Research Questions (Latif & Valente) S105 | Symposium Wild Birds and the One Health Initiative: Dynamic Boundaries Affect the Health of Birds, Livestock, Humans, and the Environment (Ramey) S106 | Symposium Translational Ecology - Producing Actionable Science (Saunders et Al.) S107 | Symposium The Future of Global Bird Trait Datasets: A Game-changing Resource for Macroecology, Macroevolution and Conservation Biology? (Tobias et Al.) S108 |
| 1600 | The NSF is Growing Pathways to STEM for Rural Community College Students via Community Partnerships and Intensive Mentoring Gillespie LM, Heinisch S, Grandgenett N | A General Framework to Integrate Repeated Count and Mark-Resight Data Rushing CS, Hostetter NJ, Boettcher R, Lyons J | 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 <u>Lankford KE</u> | Responses of Bird and Plant Communities to Global Change: Coupled or Decoupled? <u>Schleuning M</u> |
| 1615 | Landscape Composition Explains High Rates of Dispersal in Translocated Lesser Prairie-Chickens Berigan LA, Aulicky C, Sullins D, Haukos D, Fricke K, Reitz J, Rossi L, Schultz K | The Potential of Citizen Science Data for Population Monitoring Johnston AA, Strimas-Mackey ME, Hochachka WM, Robinson OJ, Ruiz Gutierrez VV, Miller E, Auer MT, Fink D | Williams LM, Brown JD, Nemeth NM, Hutchinson ML, Helwig MW, Kyle AD | Using Structured Decision Making to Connect Bird Monitoring to Restoration Decision-Making Adams EM, Fournier AM, Lyons JE, Wilson R, Gleason JS, Brush JM, Cooper RJ, DeMaso SJ, Driscoll MJ, Frederick PC, Jodice PG, Reeves DB | Avian Functional Traits and the Impacts of Climate Change on Ecosystem Function Pigot AL, Trisos C, Merow C, Tobias JA |
| 1630 | The Interactive Effects of Fire and Recreation on Golden Eagles <u>Davis CM</u> , Heath JA | Scaling Up by Integrating Standardized and Unstandardized, Community Science Count Data: a Case Study in the Upper Mississippi River Michel NL, Meehan TD, Saunders SP | Urban White Ibises Facing Trade-Offs in South Florida Welch CN, Hernandez SM, Murray M, Curry SE, Kidd A, Hepinstall-Cymerman J, Lankau E, Yabsley M, Navarra K, Cummings C, Lipp E, Altizer S | A Strategic Plan for Monitoring Birds in the Gulf of Mexico: Translating Stakeholder Values into Priorities Fournier AM, Lyons JE, Wilson R, Gleason JS, Adams EM, Brush JM, Cooper RJ, DeMasso SJ, Driscoll MJ, Frederick PC, Jodice PG, Reeves DB | How Trait Data Help Improve Avian Biodiversity Forecasts Under Global Change Zurell D |
| 1645 | Duration of Corvid Response to Forest Restoration Thinning: Implications for Conservation of the Threatened Marbled Murrelet Hagar JC, Waianuhea LK | Designing a Bird Survey for Latin America: The PROALAS Protocol in EBird Ruiz-Gutierrez VV, Lello-Smith A, Ortega Alvarez R | Lessons Learned from Research and Surveillance Directed at Highly Pathogenic Influenza Viruses in Wild Birds of | Golden-Winged Warbler Conservation: Using Science to Take Action <u>Fowle MR</u> , LaBarr MS, Barker SE | The Impacts of Diversity and Assembly History on Community Vulnerability <u>Weeks BC</u> , Tobias JA |
| 1700 | Effective Multi-Scale Governance for Migratory Shorebirds: Lessons from the EAAF and an Australian Wetland Site Hamman EV | Panel Discussion | North America Ramey AM, DeLiberto TJ, Berhane Y, Swayne DE, Stallknecht DE | An Assessment of Ecological Value and Vulnerability in the Bering, Chukchi, and Beaufort Seas <u>Smith MA</u> , Goldman M, Knight E, Sullender B | Panel Discussion |
| 1715 | | | Panel Discussion | Synthesizing Full Annual Cycle Science and Threats to Drive Conservation and Policy Actions for North American Migratory Birds Deppe JL, Auer T, Knight E, Langham GM, Marra P, Mackenzie S, Rosenberg K, Smith M, Taylor L | |