#### 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	<b>Biogeography</b> 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</u> , Klicka J, <u>Catanach TA</u> , Weckstein 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 <u>Hiller AE</u> , 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 <u>Miller CR</u> , 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, <u>MacDonald A</u>	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  Seavy NE, 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, Sullivan CM	*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	ligible for AOS presentation aw 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</u> , Edwards S, Shultz AJ		
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, Dobson SF, Koons DN, Grand JB	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 Stillman AN, 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, Sepp T, McGraw KJ	Road Mortality in Barn Owls: Identifying Temporal and Spatial Hotspots in the Fraser Valley of British Columbia  Krebs EA, Hindmarch SR, Powers G	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 <u>Dougherty PJ, Carling</u> MD, Fossberg SL		
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	LUNCH BREAK							

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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) 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	<b>Climate</b> S17	<b>Breeding Biology</b> 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, Jimenez RA, Wait DR, Wang-Claypool CY, Bowie RC</u>	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? Israel AM, 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 Ribic CA, Brown DJ, Donner DM, 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 <u>Tobias JA</u>	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  Joos CJ, 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			
	COFFEE BREAK								

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Room	Summit 5	Summit 6	Summit 7/8	Summit 9/10	Summit 11/12	Summit 13/14
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	<b>Phylogenetics</b> 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> Breen AL, Handel CM, Rupp TS, Mahon CL, Kurkowski TA	Genomic and Phenotypic Divergence in Red Warblers (Cardellina Rubra) <u>Tsai WL</u> , 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, <u>Rompré G</u> , McCune B	EBird Status and Trends: Species Distributions and Population Trends with Citizen Science Data  Fink D, Auer MT, 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 <u>Tingley MW</u>	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 AO	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, <u>Ferreira M</u> , Mauck W, Merwin J, Wright T, Joseph LG	Phylogenetic Relationships Within the Sharp-Shinned Hawk Complex with a Focus on Caribbean Populations <u>Catanach TA</u> , 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  Edwards BP, Jacobs S, Gillis D

1730 – 1830 EARLY PROFESSIONAL SYMPOSIUM COOK THEATRE

### Wednesday, 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	Symposium Biodiversity Mediated Trade-offs in Agroecosystems: When Do Birds Help or Hurt Farmers? (Pejchar & Kennedy) S31	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  Smith HG, Tschumi M, 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</u> , Bonter DN, 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</u> , Lank DB, 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 <u>Kammerichs-Berke D</u> , 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 Hierarchies among	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	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  Reintsma KM, Berkeley LI, Dreitz VJ	Response of a Southern California Riparian Bird Community to Habitat Destruction by the Invasive Kuroshio Shot Hole Borer  Kus BE	Idiosyncratic Changes in Spring Arrival Dates of Pacific Northwest Migratory Birds <u>Robinson WD</u> , Partipilo C, <u>Hallman TA</u> , 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

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			Summit 2		Summit 4
Molecular Ecology S37	<b>Behavior</b> S38	Symposium Migratory Connectivity of Alaskan Birds (Harrison & Tibbitts) S39	<b>Lightning Talks</b> S40	<b>Biogeography</b> S41	<b>Climate</b> S42
Variation in the Microbiome of Kirtland's Warblers Between Their Wintering and Breeding Areas <u>Skeen HR</u> , Cooper NW, Hackett SJ, Bates JM, Marra PP	Differences in Foraging Strategies among Common Loons Overwintering on a Large Freshwater Reservoir in Northwest South Carolina  Mager JN, Paruk JD, Wade B	One State, Global Connections: Insights from 100 Years of Bird Banding in Alaska  Scarpignato AL, Harrison A, Marra PP	Mexican Hummingbird  Nesting Nuntez-Rosas LE et al.  Phylogeny & Evolution of Gallopheasants Hosner PA et al.  Social Polygyny in the Eastern Bluebird	Modeling the Implications of Future Bioenergy Scenarios on Bird Diversity and Abundance in the Northern Great Plains  Baltensperger AP, Goljani Amirkhiz R, Dixon MD,	Intraspecific Variation in Morphological Traits of an Understory Insectivore Across a Precipitation Gradient in the Tropics <u>Tarwater CE</u> , Kelley JP
Admixture Mapping the 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 <u>Hagelin JC</u> , Johnson JA, Hallworth MT	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
Population Genetics and Phylogeography of Merlin (Falco Columbarius) in North America  Martinico BL, 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, Lanzone M, Collopy MW, Douglas DC	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> E, Hamilton S, Kirchman	Understanding the Effects of Nest Site Temperature on Songbird Reproductive Fitness and Parental Care Scherr TM, Chalfoun AD
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, Alström 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
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 IT 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
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 <u>Garrod HM</u> , Curry R	Closing Summary: A Synthesis and Gap Analysis of Migratory Connectivity Knowledge Available for Alaskan Birds  Harrison A	TAK.	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 JM**	Using Big Data to Assess the Vulnerability of North American Birds to Climate Change <u>Bateman BL</u> , Wilsey CB, Taylor L, Wu JX, LeBaron G, Langham GM
	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 Genetic Basis of Species Differences in Avian Hybrid Zones  Brelsford AT, Nwankwo EC, Myers BM, Clark CJ, Kirschel AN  Population Genetics and Phylogeography of Merlin (Falco Columbarius) in North America  Martinico BL, Sage GK, Gravley MC, Talbot SL, Haak BA, Hull JM  Asymmetric Gene Flow in an Understory Fijian Bird  Gyllenhaal EF, Mapel XM, Andersen MJ  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  The Common Loon Genoscape  Lindsay AR, Larison B, Bossu C, Rajbhandary J, Sorenson MD, DaCosta JM, Kaplan JD, Evers DC, Paruk JD, Smith TB,	Variation in the Microbiome of Kirtland's Warblers Between Their Wintering and Breeding Areas  Skeen HR, Cooper NW, Hackett SI, Bates JM, Marra PP  Admixture Mapping the Genetic Basis of Species Differences in Avian Hybrid Zones  Brelsford AT, Nwankwo EC, Myers BM, Clark CI, Kirschel AN  Population Genetics and Phylogeography of Merlin (Falco Columbarius) in North America  Martinico BL, Sage GK, Gravley MC, Talbot SL, Haak BA, Hull JM  Asymmetric Gene Flow in an Understory Fijian Bird Gyllenhaal EF, Mapel XM, Andersen MJ  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, Tarylor SS  The Common Loon Genoscape  Lindsay AR, Larison B, Bossu C, Rajbhandary J, Sorenson MD, DaCosta JM, Kaplan JD, Evers DC, Paruk JD, Smith TB, Settropic Martin Control of Carrod HM, Curry R	Molecular Ecology S37   S38   Sharvior S38   Migratory Connectivity of Alaskan Birds (Harrison & Tibbitts) S39	Molecular Ecology S38  Behavior S38  Uvariation in the Microbiome of Kirtland's Warbles Between Their Between Their Between Their Between Their Warbles Between Their Market Between Their Warbles Between Their Between The	Molecular Ecology \$338    Dallerences in Foraging Strategies among Connectivity of Alaskan Birds (Illarrison & Tibbitts)

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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	<b>Breeding Biology</b> 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 Aulicky CS, 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, Hart PJ,</u> Paxton EH	Why Do Bird Conservation and	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 <u>Walter LA</u> , Viverette C, <u>Bulluck LP</u>	*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	Conservation and Ornithology Need Social Science? <u>Dayer AA</u>	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 Lyon BE, 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</u> , Larsen RT, 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	Conservation Community: Nationwide Priorities and Practices <u>Scarl J, Barnes JC,</u> VerCauteren T	Patterns of Nestling Growth Rates in Tidal Marsh Sparrows Mirror Colonization of Specialist Habitat <u>Ruskin KJ</u> , Watson VK, 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
	<u>Winnicki SK</u> , Boyle WA	Tree any Harmon AC	Rodewald AD,	Bonter D	Elizondo EC, Shriver WG	La Sorte F.

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Room	Atwood Hall	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4
Session	<b>Genomics</b> S49	<b>Behavior</b> S50	Symposium Cross-Pacific Migration: How the Impossible Becomes Commonplace (Ruthrauff & Gill) S51	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 'Akikki: 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 <i>Jusino MA</i>	Down in the 'weeds' Searching for Answers to Wood Thrush Fledgling and Juvenile Survival  Hayes SM, Boyd BP,  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 Delehanty DJ, Bush DA	What Nonstop Trans-Pacific Flights of Shorebirds Mean for Our Understanding of the Energetic and Physiological Limits to Endurance Flight  Guglielmo CG, Lindström	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 <u>Tucker AM</u> , McGowan CP
1445	A Genomic Comparison Between Flycatchers Only Distinguishable by Innate Song Differences <u>Garcia NC</u> , 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	Rapid Global Differentiation of Migratory Phenotypes in Bar-Tailed Godwits <u>Conklin JR</u> , Verkuil YI,	Revealing Unknown Interactions: The Role of Patagonian Tapaculos (Rhinocryptidae) on the Dispersal of Endemic Truffles	Responses of State-Endangered Common Terns (Sterna Hirundo) in Ohio to the Use of Artificial Nesting Platforms  **Kearns I.I. Shirkey R.**	What Can Weather Surveillance Radar Data Tell Us About Stopover Duration of Migrating Land Birds?  Buler JJ, Zenzal Jr TJ,
		<u>Block TA</u> , Shizuka D, Chaine AS, Lyon BE	Piersma T, Fontaine MC	Caiafa MV, Jusino MA, Díaz IA, Smith ME	<u>Kearns LJ</u> , Shirkey B, Picciuto M, Crouser A, Scott E	Moore FR, CalderÏŇn LN, Barrow Jr W, Wilson B
			COFFEE BRI	CAN		

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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, <u>Dietsch A</u> , 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 <u>Semenov GA</u> , Khaydarov <u>DR</u> , 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  Schuetz JG, Johnston A	*Developmental Experience May Contribute to Adult Female Preferences for Male Mating Signals Strauss AV, 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 <u>Hirt LG.</u> 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  Adams EM, 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  Brooks WE, Wimberger PH, Rouse ML	Are Wetlands Hotspots for Bioaccumulation of Mercury in Songbirds? <u>Brasso RL</u> , Rittenhouse KA, Winder VL	Land Trusts and Birds: Partners in Strategic Conservation  Rodewald AD, Swarthout SB, Dayer AA, Rohrbaugh RW	Who is There? Response to Different Type of Territorial Intruders <u>Sandoval L</u> , Hamzaj T, Bonilla K, Gutierrez I	Hybrid Zones and the Development of Reproductive Isolation in Flooded Versus Terra Firme Forest Birds of the Amazon  Weir JT
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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	<b>Behavior</b> 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 Jedlicka JA	*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	*Assessing the Potential for Using Weather Radar to Predict Bird Collisions <u>Elmore JA</u> , Horton KG, Riding CS, O'Connell TJ, Loss SR
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  Chan Y, Lok T, Chung SS, Tibbitts TL, Hassell CJ, Piersma T, Zhang S	Using Molecular Techniques to Study the Diets and Gut Microbiota of Migratory Birds <u>Trevelline BK</u>	*What Factors Influence Nest Survival of the Endangered Yellow-Headed Amazon? <u>Tarazona-Tubens FL</u> , Britt <u>CR</u> , 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 <u>Hill GE</u>	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  Calderon LN, 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	

### 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  Lao S, 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 <u>Krishnan A</u> , Souza N, <u>Reddy S</u>	Hybridization in Northern Flickers Reveals Loci Associated with Feather Coloration  Aguillon SM, 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	The Interactive Effects of Fire and Recreation on Golden Eagles <u>Davis CM</u> , Heath JA	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, Fischer J, Schwalenberg P	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 Stracey CM	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 Scordato ES

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

Room	Arteaga Theatre	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4	
Session	<b>Habitat Relationships</b> S73	<b>Breeding Biology</b> S74	Movements & Dispersal S75	<b>Lightning Talks</b> S76	Evolutionary Ecology S77	<b>Behavior</b> 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 R.I., Anteau M.I., Ring MM, Toy D.L., 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 Clements SJ, Silk MJ, Hodgson DH, 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 <u>Harmon KC</u> , 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 Saab VA, Latif QS, Dresser M, Dudley J	Consequences of Nest Outcome on Investment into Later Broods by Gray Catbirds  Redmond LJ, Haq JI, Noble D, Ricco D	*Seasonal and Directional Dispersal Behavior in an Ongoing Dove Invasion <u>Slager DL</u>		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  Hart PJ, Paxton KL, Tredinnick G	
LUNCH BREAK							

# 7riday, 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	Foraging & Food Habits S79	Citizen Science S80	Symposium Counting Unmarked Birds: Matching Appropriate Sampling and Modeling Techniques with Particular Research Questions (Latif & Valente) S81	Symposium Wild Birds and the One Health Initiative: Dynamic Boundaries Affect the Health of Birds, Livestock, Humans, and the Environment (Ramey) S82	Symposium Birds with Benefits: Evidence and Trade-offs of Multiple-benefit Conservation Focused on Birds (Gardali et al.) S83	Symposium The Future of Global Bird Trait Datasets: A Game-changing Resource for Macroecology, Macroevolution and Conservation Biology? (Tobias et al.) S84		
1030	Gyrfalcon Dietary Plasticity in a Changing Tundra Ecosystem  Johnson DL, Henderson M, Anderson DL, Booms T, Robinson B, Williams CT	Eggshell Characteristics as Predictors of Heavy Metal Concentration in House Sparrow Eggs <u>Hartley SM</u> , Cooper CB	Estimating Avian Abundance from Unmarked Populations: Requirements, Assumptions, and Finding the Best Method for Your Research  Amundson CL, Latif QS, Valente J	Wild Birds and One Health: Dynamic Boundaries Affect the Health of Birds, Livestock, Humans, and the Environment	What is Multiple-Benefit Conservation and Why Care? <u>Gardali T, Seavy NE,</u> <u>Dybala KE</u>	Life History Trait Variation Across a Tropical Elevational Gradient <u>Jankowski JE</u> , Scholer <u>MN</u> , Londono GA		
1045	Canada Jay (Perisoreus Canadensis) Foraging Ecology in Denali National Park and Preserve, Alaska  Swift KN, Marzluff JM, Williams EJ	The Role of EBird in Fine-Scale Distribution and Density Modeling  Hallman TA, Robinson WD	Sampling Design Considerations for Making Strong Inference from Large-Scale Monitoring Programs  Pavlacky DC	Evolutionary Changes Following a Successful Host Shift: The Case of Mycoplasma Gallisepticum	Trade-Offs Between Carbon Storage and Biodiversity Conservation in Reforested Riparian Zones  Dybala KE, Steger K, Walsh RG, Smart DR, Gardali T, Seavy NE	Phylogenetic and Functional Structure of Avian Communities Along a Tropical Elevational Gradient  Boyce AJ, Shakya SS, Sheldon FH, Moyle RG, Martin TE		
1100	Trophic Transfer of Energy via Nestling Wading Birds to a Scavenger Community in an Oligotrophic Wetland <u>Gabel WW</u>	Webcams as an Untapped Opportunity to Conduct Citizen Science: Six Years of the American Kestrel Partnership's KestrelCam  Schulwitz SE, Spurling DP, Davis TS, McClure CJ	On a Simulated Day, You Can See Forever: Comparing Analytical Methods Using Simulated Point Counts <u>Rigby EA</u> , Johnson DH	Dhondt AA, Dhondt KV, Dobson AP, Geary SJ, Hawley DM, Hochachka WM, Ley DH, Pflaum K, Reinoso-Peres M, Tulman ER	Dynamic Replenishment: Implementing a Multi-Benefit Approach to Creating Bird Habitat and Recharging Groundwater  Barfield J, Rohde M, Golet G, Reynolds M, Andrews K	The Impact of Species Interactions on Latitudinal Gradients in Trait Evolution in Birds <u>Drury JP</u>		
1115	Using DNA Metabarcoding to Determine Seaside Sparrow Diet Following Large-Scale Disturbances <u>Snider AM, Bonisoli</u> Alquati A, Woltmann S, Stouffer PC, Taylor SS	Tiger Sharks Eat Passerines: Exploring the Prevalence of a Unique Cross-System Pulsed Subsidy  Drymon M, Feldheim K, Fournier A, Seubert E, Kroetz A, Powers S	From Single-Day to Multi-Year Revisits: Matching Sampling Strategies to Inferential Goals <u>Tingley MW</u>	Harmful Algal Blooms in Northern Waters: An Emerging Issue for Alaskan Seabirds?	Waterbird Habitat Quality and Groundwater Recharge Potential of Alfalfa in the San Joaquin Valley Strum KM, <u>Sesser KA</u> , Shuford WD, Golet GH	Are Rates of Divergent Evolution in "Biotic Interaction" Traits Faster in the Tropics? a Test Using Bird Beaks  Freeman BG, Schluter D, Tobias JA		
1130	Validating the Barcode-Biomass Match: Can DNA Barcoding Determine the Contribution of Arthropod Taxa to the Diet of Birds?  Verkuil YI, Ubels R, Samplonius J, Nicolaus M, Dietz M, Galema A, Kiekebos K, de Knijff P, Both C	Birds Across Borders: Uniting Curriculum, Students, Cultures, and Generations  Campbell-Smith JA, Cannady G	Optimizing Aerial Seabird Survey Design: Pitfalls and Progress <u>Davis KL</u> , Farr MT, Wilson RR, Silverman ED, Sussman A, Lyons JE, Zipkin EF	Van Hemert CR, Smith MM, Schoen SK, Dusek RJ, Piatt JF, Arimitsu ML, Litaker RW, Pearce JM	MM, Schoen SK, Dusek J, Piatt JF, Arimitsu ML, Where They Originate and	Global Biogeographic Gradients in Avian Colouration <u>Cooney CR</u> , He Y, Thomas <u>GH</u>		
1145	Demographic and Seasonal Variation in Biofilm Consumption by Migratory Western Sandpipers (Calidris Mauri)  Hall LA, De La Cruz SE, Takekawa JY	Creating Diverse and Quality Habitat for Birds Through Application of Management Guidelines for Land Managers in Northern Hardwood Forests  Treyger SM, Burger MF	What Can We Do with Survey Design Specific Biases in Point-Count Data? Integrating Roadside Surveys and New Technologies  Solymos P, Matsuoka SM, Van Wilgenburg SL, Stralberg D, Cumming SG, Bayne EM	Panel Discussion	Designing Coastal Conservation to Achieve Both Ecological and Human Well-Being Goals <u>Annis GM</u> , Pearsall DR, <u>May CA</u> , Ewert DN	Climate, Habitat, and Geographic Range Overlap Drive Plumage Evolution and Mimicry in Woodpeckers <u>Miller ET</u> , Leighton GM, Freeman BG, Lees AC, Ligon RA		
	LUNCH BREAK							

## 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	<b>Annual Cycle</b> S87	Symposium Seabirds on the Edge of Two Worlds: Ecology and Conservation of Brachyramphus Murrelets in Marine and Terrestrial Environments (Rivers & Kissling) S88	<b>Evolution</b> 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	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	<u>Sheldon BC</u>	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  Lorenz TJ, Raphael MG, Bloxton TD	Testing for Adaptive Introgression Across Elevation in a Rapid Radiation, the South American Siskins (Spinus) Beckman EJ, Witt CC	Population Ecology of Spruce Grouse in Commercially-Managed Forests  Blomberg E.J., 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 MÃĆ, Bates JM	Long-Term Change in the Intrinsic and Extrinsic Drivers of Individual Fitness  Arcese P, 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 <u>Manthey JD, Klicka J,</u> <u>Spellman GM</u>	Unintended Consequences of Translocation: Reproductive Skew and Reduced Effective Population Size in the Red-Cockaded Woodpecker  Bowman R, Thompson GT, Angell E	
COFFEE BREAK							

#### 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	<b>Disease &amp; Parasites</b> 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	Haemosporidians Show Seasonal Patterns but Little Host Specificity Within a Chickadee Hybrid Zone <u>Rice AA</u> , Curry RL, <u>Weckstein JD</u>	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 Sanderlin JS, Ganey JL, Block WM, Schwartz MK, McKelvey KS	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	Avian Genomic 'Bycatch' Facilitates the Study of Symbiont Ecology and Evolution  Galen SC, Perkins S	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  Thomas GH, 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	Extensive in Situ Radiation of Feather Lice on Tinamous  Virrueta Herrera S, Weckstein JD, Sweet AD, Allen JM, Walden KK, Johnson KP	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	Ecological Drivers of Backyard Bird Feeding and Consequences for Parasite Transmission <u>Hall RJ</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								

#### Friday. Late Afternoon Session \*indicates student presenters eligible for AOS presentation award

Room	Arteaga Theatre	Cook Theatre	Summit 1	Summit 2	Summit 3	Summit 4
Session	<b>Conservation</b> 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	<b>Genomics</b> S101	<b>Behavior</b> S102
1600	Site Fidelity and Pairing Behavior in a Wintering Population of American Kestrels in North Texas Biles KS, Bednarz JC	Long-Term Dynamics of Tree-Cavity-Nesting Communities in Temperate and Subtropical Forests  Norris AR, Cockle KL, Wiebe KL, Trzcinski MK, Edworthy AB, Martin K	Global Trends in Avian Partial Migration: a Meta-Analysis <u>Zavaleta ES</u>	Breeding Season Movements and Marine Habitat Use by the Marbled Murrelet in Oregon  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		Migratory Bird Twilight Ascent and Descent Rates Along the Southwestern Shoreline of Lake Erie  Wellik MJ, Kirsch EM, Sheildcastle M	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, <u>Swaim M</u> , 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?  Walters EL, Hagemeyer ND, Barve S, Pesendorfer MB, Koenig WD	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	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 <u>Twedt DJ</u> , Mini A	Consequences of Long-Term Habitat Change and Resource Selection for Population Limitation in		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) S104	Symposium Wild Birds and the One Health Initiative: Dynamic Boundaries Affect the Health of Birds, Livestock, Humans, and the Environment (Ramey) S105	Symposium Translational Ecology - Producing Actionable Science (Saunders et al.) S106	Symposium The Future of Global Bird Trait Datasets: A Game-changing Resource for Macroecology, Macroevolution and Conservation Biology? (Tobias et al.) S107
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	Duration of Corvid Response to Forest Restoration Thinning: Implications for Conservation of the Threatened Marbled Murrelet  Hagar JC, Waianuhea LK	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, DeMaso SJ, Driscoll MJ, Frederick PC, Jodice PG, Reeves DB	How Trait Data Help Improve Avian Biodiversity Forecasts Under Global Change Zurell D
1645	Effective Multi-Scale Governance for Migratory Shorebirds: Lessons from the EAAF and an Australian Wetland Site <u>Hamman EV</u>	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 North America	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		Panel Discussion	Ramey AM, DeLiberto TJ, Berhane Y, Swayne DE, Stallknecht DE	An Assessment of Ecological Value and Vulnerability in the Bering, Chukchi, and Beaufort Seas  Smith MA, 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	