**Posters**

Poster sessions will be held Wednesday, August 3 and Thursday, August 2, from 7:30-10:00 pm in the Big Ten A room of the Kellogg Center.

Presenting author is the first author listed unless indicated by a diamond ❖.

Students competing for a presentation award are indicated by an asterisk \*.

**Wednesday, August 2 session**

**Social Networks**

**P1. R Garlinger \*, C Eldredge, C Roche, R Curry**

Social integration of irruptive Black-capped Chickadees into Carolina Chickadee territory

**P2. I Swart, A Lindsay, J VanOrman**

JP chickadee project: big data from a little bird

**Behavior**

**P3. M Stanback, E Niemasik**

Do Barn Swallows settle in an Ideal Free Distribution?

**P4. T Block**

Are personality traits repeatable in golden-crowned sparrows (*Zonotrichia atricapilla*)?

**P5. JA Jones, J Boersma, E Enbody, J Karubian**

Ecological correlates of behavioural and social change in dichromatic Papuan fairywrens

**P6. E Brewer \*, A Falk**

Connecting the dots: dustbathing in japenense quail through a neoichnological lens

**P7. B Hennigar \*, D Wilson**

Effects of anthropogenic light and noise on the vocal behaviour and spatial ecology of birds

**P8. K Chenard, RA Duckworth**

Individual variation in brain region size in zebra finches: implications for a structural basis of personality

**P9. R Mumme, A Jacobs, A Hileman**

Variation in tail spot size in Hooded Warblers: sexual dimorphism but no evidence of sexual selection

**Communication**

**P10. C Mendez \*, L Sandoval**

Synchronization and frequency features of highly overlapped duets change according to the context

**P11. N Perera \*, CM Rogers**

Possible relationship between vocal communication system and fat reserve in wintering birds: A test of the optimal body mass

**P12. K Bonilla Badilla \*, L Sandoval**

Transmission difference of short and long duration elements in the songs of males Clay-colored Thrush in a tropical forest

**P13. S Shah, EI Greig,MS Webster**

Form follows function: the effect of function on signal evolution in the genus *Malurus*

**P14. J Eiseman, MJ Vonhof, SA Gill**

Time is of the essence: optimizing when sampling soundscapes for monitoring avian communities

**P15. SA Gill, N Fuller, KM Baker, MJ Vonhof**

Exploring patterns and drivers of acoustic diversity during the dawn chorus

**P16. E Shank, D Coss, M Rowley, J Tonleu, K Omland**

Studying novel functions of female song: Vocal response to nest predators in female Eastern Bluebirds (*Sialia sialis*)

**P17. K Pagel, GR Kramer, CL Ziegler, K Maley, HM Strebly**

Say what? Inter-annual, inter-specific song switching in Golden- and Blue-winged Warblers

**P19. R Juárez \*, G Barrantes, L Sandoval**

Changes in song repertoire length and song elements use in response to different levels of anthropogenic noise

**P20. S Regan, E Bollinger, Z Lui, F Alshammari**

Vocal and genetic variation within a chickadee contact zone in central Illinois

**Foraging**

**P21. K Bjornen \*, Alec Lindsay**

Avian foraging response tojack pine (*Pinus banksiana*) volatile chemicals

**P22. A Zarn \*, C Valle, S Emslie**

Stable isotope and mercury analyses of the Galapagos Islands seabird community

**P23. E Sibbald, ET Miller, RC Dobbs**

Foraging observations and insights on Neotropical migrant warblers from Ecuador

**Brood Parasitism**

**P24. B Peer, M Kuehn, S Rothstein**

Long-term retention of clutch desertion by yellow warblers in the absence of cowbird parasitism

**P25. M Dainson, M Mark, M Holford, ME Hauber**

Parasitic eggshell’s pigment concentrations do not match host levels in egg color mimetic Striped Cuckoos

**Breeding Biology**

**P26. R Snowden, R Danner**

Effects of environmental temperature and human disturbance on incubation behavior and egg temperatures of Least Terns (*Sternula antillarum*)

**P27. C Dove, E Lankiewicz, M Stanback**

Eastern Bluebirds do not avoid nest cavities with mouse odors

**P28. M Lombardo, B Wilson, N Keck, S Keydel**

Some factors associated with egg hatching in Tree Swallows

**P29. CL Brennan, RJ Trimbath, AW Jones**

Molecular confirmation of hybridization between Northern Parula (*Setophaga americana*) and Cerulean Warbler (*S. cerulea*)

**P30. AFLA Powell, J Kirkley**

An instance of hybridization and parental interaction of Great-tailed and Common Grackle (*Quiscalus*)

**P31. C Burns, LR Reitsma**

A rapid measure of breeding productivity for the Canada Warbler (*Cardellina canadensis*)

**Community Ecology**

**P32. N Mirochnitchenko, EF Stuber, JJ Fontaine**

Influence of environmental gradients on the relationship between taxonomic and functional diversity in grassland birds

**P33. C Wails, S Borrelle, R Buxton, H Jones**

Impacts of mammalian predators on species- and niche-based community assemblages in the world’s seabird biodiversity hotspot

**P34. K Kelly \*, D Brown**

Development and analysis of avian index of biological integrity for Kentucky Wetlands

**P35. L Keyes, R BaisaJ Yunger**

Nested subset patterns of avian assemblages in wetlands

**Ecotoxicology**

**P36. S Dzielski \*, CW Twining, NR Razavi, VG Rohwer**

What's in a feather? Reconstructing mercury concentrations through time using museum specimens

**P37. M Eng, BJ Stutchbury, C Morrissey**

Tracking the effects of a neonicotinoid insecticide on migratory birds

**P38. M Etterson, N Schumaker, K Garber, S Lennartz, A Kanarek, J Connoly**

A spatially explicit model for estimating risks of pesticide exposure to bird populations

**Morphology and Physiology**

**P39. P Nolan, B Van Skoik, T Hard**

Dynamic color in a black-and-white world: Penguin beak spots as biosentinels in the Antarctic

**P40. S Reed, A Fudickar, S Wanamaker, E Ketterson, Indiana University**

Hormone-mediated life-history tradeoffs demonstrated in Dark-eyed Juncos

**P41. P Oboikovitz \*, D Swanson**

Environmental heterogeneity and metabolic flexibility in Horned Larks and House Sparrows

**P42. D DeRaad \*, AJ Zellmer, W Tsai, JM Maley, JE McCormack**

Geographic variation in Woodhouse’s Scrub-Jay

**P43. I Hays, I Ljubicic, ME Hauber**

How the egg rolls: the geometry of avian egg movement

**P44. E Place \*, JK Augustine**

Variation in organ size between migratory and non-migratory birds

**P45. R Knapik, D Luukkonen, S Winterstein**

Michigan’s ugly duckling: quantifying color morphs in mute swan cygnets

**P46. C Peterson, N Wright, B Tobalske**

Baby birds take flight: ontogeny of intermittent flight in Zebra Finches

**Taxonomy and Systematics**

**P47. RT Chesser, AJ Welch, HF James, V Bretagnolle**

A UCE perspective on the phylogeny of the albatrosses, petrels, and shearwaters (Procellariiformes)

**P48. AW Jones, CL. Brennan, K Kaufman, HT Bartlett**

A vagrant kingbird in Ohio represents the first known Western x Couch's Kingbird (*Tyrannus verticalis x T. couchii*)

**P49. T Roberts, C Opitz, C Crawford**

What you should know about the ornithology collection at the University of Iowa

**Conservation and Management**

**P50. K Omland, DC Stonko, L Rolle, MG Rowley, JL Christhilf, SB Johnson, L Brace, S Cant**

Breeding habitat of the critically endangered Bahama Oriole: new documentation of extensive breeding in pine forests.

**P51. V Cavalieri, Francesca Cuthbert**

Management implications of differential productivity rates at Great Lakes Piping Plover nest sites

**P52. S Rockwell, JL. Stephens**

Using birds as ecological indicators to evaluate the success of riparian restoration via beaver dam analogues (BDAs)

**P53. B Fournet, P Nolan❖**

Determining impacts on Least Tern breeding colonies along a gradient of human disturbance

**P54. A Westwood, D Lambert, L Reitsma❖**

Bridging the research-management divide: A collaborative spatial approach to conservation for species at risk using the Canada Warbler (*Cardellina canadensis*)

**P55. E Rowan, C Putnam**

Conservation and Management of the North American Black Tern (*Chlidonias niger surinamensis*) in Michigan

**P56. E Matseur, FR Thompson III, JJ Millspaugh, BE Dickerson, MA Rumble**

Habitat associations and abundance of birds in the Black Hills and Bear Lodge Mountains of South Dakota and Wyoming

**P57. M Roach, FR Thompson III, T Jones-Farrand**

Songbird nest success is positively related to vegetation structure and tree thinning in managed pine-oak savanna and woodland in the Ozark Highlands, Missouri

**Quantifying Scientific Impact**

**P58. S Dudley, N O'hanson**

Altmetrics – what are they good for?

**Birds in Society**

**P59. D Bird, K Otter**

The Canada Jay -- A National Bird for Canada

**Urban Ecology 1**

**P60. Z Kruyf, JL Atma, HN LaCroix, JL Van Donselaar, DS Proppe**

Urbanization alters fear behavior in black-capped chickadees

**Thursday, August 3 session**

**Evolution**

**P61. N Souza, M Bonfitto, S Chaudhari, J Witkowski, M Hanson, S Reddy**

Geometric morphometrics and the evolution of bill shape in babblers (Timaliidae)

**P62. L Céspedes \*, E Bonaccorso, D Cadena, MA Castro, A Cuervo, J Gómez, J Pérez, C Witt**

Vocal, color and genetic variation across a wide hybrid zone in Andean warblers

**Diseases and Parasites**

**P63. AE Atkinson, EC Atkinson**

An Assessment of the effects of West Nile Virus on avian species

**P64. BR Watkins, K Harakal, CD Winkler, AE Atkinson, EC Atkinson**

Analysis of an avian disease network in the Greater Yellowstone ecosystem: opportunities for undergraduate student engagement while testing null models

**P65. K Fake, JC. Owen**

Influence of energetic condition and Vitamin E on West Nile Virus resistance of American Robins

**P66. J Smith, KM Baker, SA Gill, MJ Vonhof**

Effects of urbanization on prevalence, diversity, and parasitaemia of avian Haemosporida parasites

**Birds and Agriculture**

**P67. C Wendt, K Garbach**

The Rangeland Watershed Initiative: Building partnerships to enhance bird habitat on private lands

**P68. M Brady, R Eaton, S Wieferich, K Steensma, D Leigh, P Curtis, H Henrichs, J Boulanger, C Lindell**

Abundance of fruit-eating birds in agricultural land cover

**P69. A Campomizzi, Z Lebrun-Southcott**

Adult bobolink dispersal following hay harvest during the breeding season

**Habitat Relationships**

**P70. D Noble, J Haq, D Ricco, LJ Redmond**

The effect of nest site characteristics on nest success of Gray Catbirds

**P71. J Ethier \*, DR Wilson, W Balsom**

Using microphone arrays to determine critical habitat and microhabitat of common avian species in steep decline

**P72. P Skrade, CH Grabau, CJ Thielen, JW Stravers,**

Cerulean Warbler habitat use in Northeast Iowa

**P73. M Charette, H Soder**

Habitat preference and movement in lek and foraging grounds in the White-collared Manakin (*Manacus candei*)

**P74. KE Farley, C Holzapfel**

Anthropocene’s effect on habitat choice in early successional species: A preliminary study on the American Woodcock in northern New Jersey

**P75. L Elliott, ABracey, G Niemi, D Johnson, T Gehring, G Grabas, R Howe, C Norment, D Tozer**

Habitat associations of coastal wetland birds in the Great Lakes basin

**P76. B Edwards, D Gillis**

Modelling habitat loss in Piping Plovers using an environmental agent-based model

**Modeling Approaches**

**P77. M Florkowski, N Gilbert**

A comparison of occupancy estimates produced by morning versus evening point counts

**P78. S Diaz Mendez**

Using MAXENT to predict the distribution of the West Indian Whistling Duck with presence only records in Caño Tiburones, Puerto Rico

**P79. J Froehly, A Tegeler, B Ross, CMB Jachowski, P Jodice, DS Jachowski**

Loggerhead Shrike occupancy in South Carolina

**Population Ecology**

**P80. E Shogren, A Boyle**

Estimating apparent survival and factors influencing population dynamics of Neotropical birds

**P81. S Winnicki, A Boyle**

Complex drivers of Grasshopper Sparrow (Ammodramus savannarum) nest success

**P82. J Newbrey, J Clarke, MG Newbrey**

Effects of human disturbance level on yolk carotenoid allocation in Carolina Chickadees

**P83. E Bridge, J Ruyle, ID Grady, GP Robinson, WF Oakley, HK Lepage**

A low-cost RFID reader and electronics platform for biological research

**P84. G Smith, RJ Trimbath, DR Garrett**

Nesting success of Hooded Warblers in exotic shrubs: multi-trophic interactions in the forest understory

**P85. A Shoffner, D Luukkonen, D Williams, S Winterstein**

American Woodcock reproductive rates in relation to forest structure at local and landscape scales

**P86. D Coss, EM Shank, MG Rowley, JT Tesleu, KE Omland**

Migratory return rates and breeding fidelity in Eastern Bluebirds (*Sialia sialis*)

**Annual Cycle**

**P87. E Ames, C Tonra**

Carry-over cascade: linking winter habitat, arrival, breeding, and post-fledging survival in a migratory songbird

**P88. B Boyd \*, S Hayes, B Stutchbury**

Breeding season carry-over effects of forest fragmentation on Wood Thrush (*Hylocichla mustelina*)

**Urban Ecology 2**

**P90. C Stuart, EE Grabarczyk, MJ Vonhof, SA Gill**

Light, noise or social factors? Exploring influences on the onset of dawn song in house wrens

**P91. I Moreno-Contreras \*, H Gómez de Silva, M Ortiz**

Disentangling the evolutionary history and functionality of avian assemblages in a city of the Chihuahuan Desert

**P92. S Essaian, EM Wood**

The importance of the Los Angeles urban forest for sustaining migratory bird populations

**P93. N Faison, E Branch❖, EE Grabarczyk, MJ Vonhof, SA Gill**

Does anthropogenic noise disrupt parental care in house wrens?

**Molecular Ecology**

**P94. C Thow \*, B Lyon, C Wells, J Eadie**

Are you my mommy: assigning parentage in populations with kin structure and incomplete parent sampling

**P95. MA Jusino, J Skelton, MT Banik, JM Palmer, L Blanc, S Goodman, JR Walters, DL Lindner**

Methods matter: a better way characterize the diets of insectivorous birds using fecal DNA

**P96. T Nguyen, JW Fitzpatrick, AG Clark**

Investigating the genomic consequences of a precipitously declining Florida-scrub jay population

**P97. K Heath, WC Conway, DA Ray, N Platt**

Effectiveness of CHD1 sex-linked chromosome primers in sexing Snowy Plovers on the Southern Great Plains

**P98. M Roeder \*, CE Hill, S Taylor, S Woltmann**

Population genetic characteristics of Seaside Sparrows (*Ammodramus maritimus*) in Texas

**P99. B Crosby, A Tigano, GJ Robertson, VL Friesen**

Colony-specific genetic markers for the assessment of hunting impacts on thick-billed (*Uria lomvia*) and common (*Uria aalge*) murres

**Geonomics**

**P100. A Arnaiz-Villena, E Muñiz, J Palacio-Gruber, C Campos, B Tejedor, M Martin-Villa, V Ruiz-del-Valle**

Intron study and evolution of wild songbird MHC genes: minimum essential MHC does not exist

**P101. Y Ji, JA DeWoody, SJ Hackett**

The correlation among microsatellites, genome size, metabolic rate, and body mass in birds

**P102. Z Gayk, AR Lindsay**

Genomic evidence for aquatic adaptation in the Common Loon (*Gavia immer*)

**P103. S Aguillon, RG Harrison, IJ Lovette**

Genomic data distinguish phenotypically distinct birds despite low levels of divergence

**Phylogeography**

**P104. SA Jiménez, ZR Hanna, M Fernanda Asturias, RCK Bowie**

Phylogeography of the Green-throated Mountain-gem (*Lampornis viridipallens*)

**P105. R Herman, D Dittmann, M Harvey**

Phylogeography of a widespread seabird (*Ardenna pacifica*) using genome-wide markers

**Movement Ecology**

**P106. M Bishop, K Botting, A Tuttle**

Foraging and residency behavior of wintering American Kestrels (*Falco sparverius*) in central Michigan

**P107. A Fetterman, L Kiziuk, D Brinker, S Weidensaul, T Alleger**

Building a Northeastern Wildlife Tracking Network – The Northeast Motus Collaboration

**P108. C Ward \*, T Diamond, J Nocera**

Determining breeding home ranges of a rare, high-elevation specialist, the Bicknell’s Thrush (*Catharus bicknelli*) in north-central New Brunswick

**P109. JD Ross, JE Ruyle, ES Bridge**

Make movement advancements for autonomous radio telemetry networks

**Migration**

**P110. D Stotz, P Clyne, M Speer**

Changing phenology of landbird migration at Chicago, Illinois: multiple datasets

**P111. A Beauchamp, Y Morbey, C Guglielmo**

Mechanisms underlying migratory protandry in the sexes and plumage morphs of the White-throated Sparrow

**P112. J Tinklenberg, J Dunning, J Buler**

Monitoring songbird stopover in fragmented forest-agricultural systems

**P113. J Owen, D Sandhal, A Pickett, Y Oguchi**

Variation in fruit consumption by landbirds at a stopover site during fall migration

**P114. S Wolfe \*, AJ Arnold, MJ Schnupp, BM Ballard**

Habitat Associations of Warblers Migrating Along the Lower Texas Coast

**P115. F Moore, TJ Zenzal, JJ Buler**

A multi-scale approach to detecting the response of migratory land birds to changes in habitat availability

**P116. C Tonra, L Kearns, K Stein**

Migratory movements and wintering locations of a threatened population of Black-crowned Night-Herons

**P117. S Kolbe \*, A Bracey, G Niemi, M Etterson**

Visible migration counts of the Common Nighthawk (*Chordeiles minor*) on the north shore of Lake Superior

**P118. A Fournier, MC Shieldcastle, T Kashmer, KA Mylecraine**

Comparison of arrival dates of rail migration in the southwest Lake Erie Marshes, Ohio, USA

**P119. M Anderson, J Owen, K DeMoranville, W Carter, S McWilliams**

Effect of dietary antioxidant and fatty acid levels on immune function of European Starlings following endurance flight.

**P120. J Burger, N Tsipoura, M Gochfeld**

Metal levels in blood of shorebirds reflect levels in their prey (Horseshoe Crab Eggs)