

One Hundred and Twenty-Third  
Stated Meeting of the  
**American Ornithologists' Union**

23 - 27 August 2005

at

The University of California  
Santa Barbara, CA

## Program of papers

*version 22 Aug 2005*

### Part 1: Plenary talks, special lectures and symposia

#### Wednesday, 24 August

Plenary presented in Campbell Hall  
Symposium A held in Corwin West  
Symposium B held in MCC Theatre

**Plenary 1      08:30    The legacy of Joseph Grinnell in ornithology. CARLA CICERO, *Mus. Vert. Zool., Univ. California, Berkeley, CA.***

**Symposium A.** *Festschrift to Ned K. Johnson: perspectives on geographic variation, speciation, and evolution in birds.* (organized by Carla Cicero and J. Van Remsen, Jr.)

- 10:15    s01    A tribute to the career of Ned K. Johnson: leadership by meticulous example. J. V. REMSEN, Jr., *Mus. Nat. Sci., Louisiana State Univ., Baton Rouge, LA.*
- 11:00    s02    Molecular evidence for activator-inhibitor dynamics in development of barbs in plumulaceous and pennaceous feathers. R. O. PRUM, *Dept. Ecol. & Evol. Biol. and Peabody Mus. Nat. Hist., Yale Univ., New Haven, CT.*
- 11:15    s03    Advances in molecular approaches to studying geographic variation and speciation. ALLAN J. BAKER, *Dept. Nat. Hist., Royal Ontario Mus., Toronto, ON.*
- 11:30    s04    Seasonal dynamics of ecological characteristics of migratory birds. A. TOWNSEND PETERSON, *Nat. Hist. Mus., Univ. Kansas, Lawrence, KS,* and ADOLFO G. NAVARRO-SIGÜENZA, *Museo de Zool., Facultad de Ciencias, Univ. Nacional Autónoma de México, Mexico, D.F.*
- 11:45    s05    Vainly beating the air: species concept debates need not impede progress in science or conservation. KEVIN WINKER, CHRISTIN PRUETT, THOMAS BRAILE, *Univ. Alaska Mus., Fairbanks, AK,* DEBORAH A. ROCQUE, *U.S. Fish & Wildl. Serv., Anchorage, AK,* and GARTH SPELLMAN, *Barrick Mus. Nat. Hist., Univ. Nevada, Las Vegas, NV.*
- 12:00    s06    Subspecies and their significance in modern ornithology. JAMES D. RISING, *Dept. Zoology, Univ. Toronto, Toronto, ON.*

- 12:15 s07 Another view on the value of museum collections and the need for vouchers. JOHN M BATES. *Dept. Zool., Field Mus., Chicago, IL.*
- 13:30 s08 Geographic variation and secondary contact in the Sage Sparrow complex. CARLA CICERO and NED K. JOHNSON, *Mus. Vert. Zool., Univ. California, Berkeley, CA.*
- 13:45 s09 Phylogeography of the Blue Grouse complex. GEORGE F. BARROWCLOUGH, JEFF G. GROTH, BARTEK JABLONSKI, LISA A. MERTZ, *Amer. Mus. Nat. Hist., New York, NY,* and R. J. GUTIERREZ, *Univ. Minnesota, St. Paul, MN.*
- 14:00 s10 Patterns of spot and niche differentiation among subspecies of the Spotted Owl. WILLIAM B. MONAHAN, *Dept. Integ. Biol. & Mus. Vert. Zool., Univ. California, Berkeley, CA.*
- 14:15 s11 Ecological speciation in the Great Basin: divergence and reproductive isolation in the South Hill crossbill. CRAIG W. BENKMAN, *Dept. Zool. & Physiol., Univ. Wyoming, Laramie, WY,* THOMAS L. PARCHMAN, JULIE W. SMITH, *Dept. Biol., New Mexico State Univ., Las Cruces, NM,* and LISA K. SNOWBERG, *Dept. Zool. & Physiol., Univ. Wyoming.*
- 14:30 s12 Habitat-dependent selection and geographic variation in the song of the Swainson's Thrush. KRISTEN C. RUEGG, *Mus. Vert. Zool., Univ. California, Berkeley, CA,* and HANS SLABBEKOORN, *Leiden Univ., Leiden, The Netherlands.*
- 14:45 s13 Phylogeography of the Pygmy Nuthatch. GARTH M. SPELLMAN and JOHN KLICKA, *Barrick Mus. Nat. Hist. and Dept. Biol. Sci., Univ. Nevada-Las Vegas, Las Vegas, NV.*
- 15:00 s14 Comparative phylogeography of California birds. KEVIN J. BURNS, MATT P. ALEXANDER, DINO N. BARHOUM, and ERIK A. SGARIGLIA, *Dept. Biol., San Diego State Univ., San Diego, CA.*
- 15:15 s15 The life and times of Ned K. Johnson. CARLA CICERO, *Mus. Vert. Zool., Univ. California, Berkeley, CA.*

**Symposium B.** *Parasite effects on birds at individual and population levels* (organized by Kevin Lafferty and Armand Kuris).

- 10:15 s16 Introduction to the symposium: birds and parasites in food webs. KEVIN LAFFERTY, *USGS Western Ecol. Res. Ctr, Univ. California Santa Barbara, Santa Barbara, CA.*
- 10:30 s17 Links between shorebirds and trematodes at large scales in New Zealand. BRIAN FREDENSBORG, *Univ. Otago, Dunedin, New Zealand.*
- 11:00 s18 Links between shorebirds and trematodes at small scales in California. RYAN HECHINGER, *Univ. California Santa Barbara, Santa Barbara, CA.*
- 11:30 s19 Endangered species and parasites: the affect of Clapper Rail abundance on the community composition of estuarine trematodes in horn snails. K. L. WHITNEY, R. F. HECHINGER, *Dept. Ecol., Evol. & Marine Biol., Univ. California Santa Barbara, Santa Barbara, CA,* and K. D. LAFFERTY, *USGS Western Ecol. Res. Ctr., Univ. California Santa Barbara.*
- 12:00 s20
- 13:30 s21 Parasites, mortality and sexual selection. MARLENE ZUK, *Dept. Biol., Univ. California*

Riverside, Riverside, CA, ANDRÁS LIKER, *Dept. Zool., Univ. Veszprém, Hungary*, and ROBIN TINGHITELLA, *Dept. Biol., Univ. California, Riverside*.

14:00 s22 Adaptive significance of avian beak morphology for ectoparasite control. DALE H. CLAYTON, *Dept. Biol., Univ. Utah, Salt Lake City UT*.

14:30 s23 Selection and adaptations in bird-ectoparasite interactions. HEINZ RICHNER, *Univ. Bern, Bern, Switzerland*.

#### Thursday, 25 August

**Plenary 2** 20:00 **Rediscovery of the Ivory-billed Woodpecker and its conservation implications.** JOHN W. FITZPATRICK, *Lab. Ornithol., Cornell Univ., Ithaca, NY*.

#### Friday, 26 August

Plenary presented in Campbell Hall  
Symposium C held in Lotte Lehmann

**Plenary 3** 08:30 **Recovery of the Western Snowy Plover in a southern California beach: a success story.** CRISTINA P. SANDOVAL, *Natural Reserve System, Univ. California, Santa Barbara, CA*, KEVIN D. LAFFERTY, *USGS Western Ecol. Res. Ctr., Univ. California*, and DARCI GOODMAN, *Bren School of Environ. Sci. & Manage., Univ. California*.

**Symposium C.** *Avian conservation in western riparian ecosystems* (organized by Barbara Kus and Mary Whitfield)

10:15 s24 Introduction and overview. BARBARA E. KUS, *USGS Western Ecol. Res. Center, San Diego, CA*.

10:30 s25 Multiple stressors to birds breeding, migrating, and wintering in riparian habitats. ROBERT J. FLETCHER Jr., *Avian Sci. Center, Div. Biol. Sci., Univ. Montana, Missoula, MT*, TY D. SMUCKER, *Wildl. Biol. Prog., Coll. For. & Conserv., Univ. Montana, J. FERNANDO VILLASENOR-GOMEZ, Div. Biol. Sci., Univ. Montana*, and RICHARD L. HUTTO, *Avian Sci. Center, Div. Biol. Sciences, Univ. Montana*.

11:00 s26 The importance of riparian habitats to the forest birds of the Pacific Northwest conifer forests of California and Oregon. C. JOHN RALPH, SHERRI L. MILLER, PABLO A. HERRERA, *U.S. Forest Service, Redwood Sci. Lab., Arcata, CA*, JOHN D. ALEXANDER, *Klamath Bird Observatory, Ashland, OR*, and ROBERT M. SULLIVAN, *Trinity River Restor. Prog., U.S. Bureau of Reclama., Weaverville, CA*.

11:15 s27 Stopover ecology of Wilson's Warblers along the Lower Colorado River: a telemetry study. KRISTINA L. ECTON, CHARLES VAN RIPER and CHRIS O'BRIEN, *USGS-SBSC-Sonoran Desert Research Station, Tucson, AZ*.

11:30 s28 \* The roles of floristics and physiognomy in the organization of an enroute migrant landbird community: a local-scale comparison of exotic *Tamarix* and native riparian vegetation. HIRA A. WALKER, *Dept. Biol., Univ. New Mexico, Albuquerque, NM* and *USDA Forest Service, Rocky Mtn. Res. Sta., Albuquerque, NM*.

- 11:45 s29 Avian food resources in saltcedar versus native habitats: implications for the Southwestern Willow Flycatcher. SCOTT L. DURST, *USGS-SBSC, Colorado Plateau Res. Sta., Northern Arizona Univ., Flagstaff, AZ*, TAD C. THEIMER, *Dept. Biol. Sci., Northern Arizona Univ.*, EBEN H. PAXTON, MARK K. SOGGE and MARLYSE C. WASKIEWICZ, *USGS-SBSC, Colorado Plateau Res. Sta.*
- 12:00 s30 Is saltcedar habitat always bad for birds? lessons from studies of the Southwestern Willow Flycatcher. MARK K. SOGGE, *USGS Southwest Biol. Sci. Ctr., Flagstaff, AZ*, and EBEN H. PAXTON, *USGS Southwest Biol. Sci. Ctr. and Dept. Biol., Northern Arizona Univ., Flagstaff, AZ.*
- 12:15 s31 Conservation of Southwestern Willow Flycatchers: home range and habitat use by an endangered bird. SUZANNE N. CARDINAL, *USGS SBSC Colorado Plateau Res. Sta., and Dept. Biol., Northern Arizona Univ., Flagstaff, AZ*, EBEN H. PAXTON, *USGS SBSC Colorado Plateau Res. Sta.*, and TAD C. THEIMER, *Dept. Biol., Northern Arizona Univ.*
- 13:30 s31b Microclimatic nest-site selection by Southwestern Willow Flycatchers. MARY ANNE McLEOD, THOMAS J. KORONKIEWICZ, *SWCA Environmental Consultants, Flagstaff, AZ*, and BRYAN T. BROWN, *SWCA Environmental Consultants, Salt Lake City, UT.*
- 13:45 s32 The flycatcher and the phoenix: riparian habitat creation and destruction in a fluctuating reservoir. EBEN H. PAXTON, *USGS Southwest Biol. Sci. Center, Colorado Plateau Res. Sta., Flagstaff, AZ.*
- 14:00 s33 The reoccupation of Willow Flycatchers in an unexpected riparian habitat type at Mono Lake, California. CHRIS McCREEDY, SACHA K. HEATH and GRANT BALLARD, *Point Reyes Bird Observ. Conserv. Sci., Stinson Beach, CA.*
- 14:15 s34 Population demographics of Willow Flycatchers in the central Sierra Nevada: dispersal distances of juveniles direct conservation efforts. HEATHER A. MATHEWSON, *Ecol, Evol, Con. Bio., Univ. Nevada, Reno, NV*, HELEN L. LOFFLAND, *Pioneer, CA*, and MICHAEL L. MORRISON, *Dept. Biol., Univ. Nevada, Reno, NV.*
- 14:30 s35 Distribution and abundance patterns of Yellow-billed Cuckoos in Arizona and their implications for riparian conservation. MATTHEW J. JOHNSON, JENNIFER A. HOLMES, *USGS Southwest Biol. Sci. Center, Colorado Plateau Res. Sta., Northern Arizona Univ., Flagstaff, AZ*, CHARLES VAN RIPER, III, *USGS Southwest Biol. Sci. Center, Sonoran Desert Field Sta., Tucson, AZ*, and MURRELET D. HALTERMAN, *Ecol., Evol. & Conserv. Biol., Univ. Nevada, Reno, NV.*
- 14:45 s36 Comparing Yellow-billed Cuckoo distribution models in Arizona. CHARLES VAN RIPER III, TERANCE R. ARUNDEL, MATTHEW J. JOHNSON and JENIFER A. HOLMES, *USGS and Northern Arizona Univ., Flagstaff, AZ.*
- 15:30 s37 Testing the standard survey method for Yellow-billed Cuckoos: how many cuckoos are really out there? M. D. HALTERMAN, *Dept. Ecol., Evol. & Conserv. Biol., Univ. Nevada, Reno, and Southern Sierra Res. Sta., Reno, NV.*
- 15:45 s38 Space, time and cowbirds: what happens to Least Bell's Vireos when a long-term trapping program ends? BARBARA E. KUS, *USGS Western Ecol. Res. Center, San Diego, CA.*
- 16:00 s39 Eleven years of monitoring on the Sacramento River: abundance patterns of landbirds in restored and remnant riparian forests. THOMAS GARDALI, AARON L. HOLMES, *Point Reyes Bird Observ. Conserv. Sci., Stinson Beach, CA*, STACY L. SMALL, *Div. Biol. Sci., Univ. Missouri, Columbia, MO*, NADAV NUR, GEOFFREY R. GEUPEL, *Point Reyes Bird*

*Observ. Conserv. Sci.*, and GREGORY H. GOLET, *The Nature Conservancy, Chico, CA.*

- 16:15 s40 Comparing habitat choice of breeding birds in restored and remnant riparian sites of California's Central Valley. CHRISSY A. HOWELL, NADAV NUR and GEOFFREY GEUPEL, *Point Reyes Bird Observ. Conserv. Sci., Stinson Beach, CA.*
- 16:30 s40b Least Bell's Vireo breeding in a San Joaquin Valley riparian restoration site: first confirmed record since 1919. JULIAN K. WOOD, GEOFFREY R. GEUPEL, LINETTE LINA, *PRBO Conserv. Sci., Stinson Beach, CA*, STACY L. SMALL, *Univ. Missouri, Columbia, MO*, BARBARA KUS, *USGS, San Diego, CA*, DENNIS WOOLINGTON, KENNETH GRIGGS, *U.S. Fish & Wildl. Serv., Los Banos, CA*, TOM GRIGGS and TAMARA SPERBER, *River Partners, Chico, CA.*
- 16:45 s41 Diversity and population trends in riparian sites in southern California. J. C. UYEHARA, *U.S. Forest Service, Los Padres Natl. Forest, Goleta, CA*, SYLVIA MORI, *USFS, Pacific Southwest Res. Sta., Albany, CA*, and KATHRYN PURCELL, *USFS, PSW-Sierra Nevada Res. Center, Fresno, CA.*
- 17:00 s42 Instability versus stability of avian community composition in riparian habitats of the Intermountain West: what's going on? DAVID S. DOBKIN, *High Desert Ecol. Res. Inst., Bend, OR*, and SUSAN.L. EARNST, *USGS, Forest & Rangeland Ecosystem Sci. Ctr, Boise, ID.*
- 17:15 s43 Continental vulnerability and indicator quality of western riparian landbirds. TERRELL D. RICH, *U.S. Fish & Wildl. Serv./Partners in Flight, Boise, ID.*

## Saturday, 27 August

Plenary presented in Campbell Hall  
Symposium D held in Lotte Lehmann

### **Symposium D.** *Endangered species recovery: the California Condor as a model* (organized by Allan Mee)

- 08:30 s46 Limiting factors for the historic California Condor population: implications for the future. NOEL SNYDER, *Portal, AZ.*
- 09:00 s47 Reintroduction of California Condors into their historical range: the recovery program in California. JESSE GRANTHAM, *U.S. Fish & Wildl. Serv., Ventura, CA.*
- 09:15 s48 Genetic variation in the California Condor over the past century: the use of museum specimens to measure the effect of a population bottleneck. NEIL CLIPPERTON, MARY ADAMS and FRANCIS X. VILLABLANCA, *California Poly. State Univ., San Luis Obispo, CA.*
- 10:15 s49 Improving genetic management of California Condors through molecular research. O. RYDER, M. ROMANOV, E. STREMEL, L. CHEMNICK, *Zoological Society of San Diego, San Diego, CA*, J. BALLOU AND K. RALLS, *Smithsonian Natl. Zool. Park, Washington, DC*, A. MITCHELL and E. THOMPSON, *Dept. Stat., Univ. Washington, Seattle, WA*, and K. JONES, *Genetic Identification Services, Inc.*
- 10:30 s50 Survival and reproduction of California Condors released in Arizona. CHRISTOPHER P WOODS, WILLIAM R. HEINRICH, CHRIS N. PARISH, SHAWN C. FARRY and TOM J.

CADE, *The Peregrine Fund, Boise, ID.*

- 10:45 s51 Movements of introduced California Condors in Arizona in relation to lead exposure. GRAINGER HUNT, CHRIS PARISH, SHAWN FARRY, *Peregrine Fund, Boise, ID*, RON SEIG, *Arizona Fish & Game Dept., Flagstaff, AZ*, and THOM LORD, *Peregrine Fund, Boise, ID.*
- 11:00 s52 Five years of lead exposure among California Condors released in Arizona. CHRIS PARISH, WILLIAM HEINRICH and GRAINGER HUNT, *The Peregrine Fund, Boise, ID.*
- 11:15 s53 Efforts to Reduce California Condor Lead Exposure in Arizona. KATHY SULLIVAN, RON SIEG, *Arizona Game and Fish Dept., Flagstaff, AZ*, and CHRIS PARISH, *Peregrine Fund, Mormon Lake, AZ.*
- 11:30 s54 Lead exposure among reintroduced California Condors in southern California. MARK HALL, JESSE GRANTHAM, RICHARD POSEY, U.S. Fish & Wildl. Serv., *Ventura, CA*, and ALLAN MEE, *Zoological Society of San Diego, Escondido, CA.*
- 11:45 s55 Exposure, depuration, and possible sources of lead intoxication of California Condors. D. MICHAEL FRY, *Stratus Consulting Inc., Boulder, CO.*
- 12:00 s56 Sources of lead to California Condors. MOLLY CHURCH, R. GWIAZDA, *Univ. California Santa Cruz, Santa Cruz, CA*, KELLY SORENSON, *Ventana Wilderness Society, Salinas, CA*, and DON SMITH, *Univ. California Santa Cruz, Santa Cruz, CA.*
- 12:15 s57 Using GPS-telemetry to determine the influence of proffered carcasses on home ranges of reintroduced condors in California. ERIC L. STOVER, KELLY J. SORENSON, JESSICA C. KONING, *Ventana Wilderness Society, Salinas, CA*, and MONICA IGLECIA, *Univ. California Santa Cruz, Santa Cruz, CA.*
- 13:30 s58 Breeding effort in reintroduced California Condors in California: why is nest success so low? ALLAN MEE, *Zool. Soc. San Diego, Escondido, CA*, JENNIE SINCLAIR, *U.S. Fish & Wildl. Serv., Ventura, CA*, and JAN HAMBER, *Santa Barbara Nat. Hist. Mus., Santa Barbara, CA.*
- 13:45 s59 A quantitative assessment of the California Condor mentoring program. ANNA T. BUKOWINSKI, FRED B. BERCOVITCH, ALLISON C. ALBERTS, MIKE P. WALLACE, SERGIO ANCONA and MIKE E. MACE, *Zoological Society of San Diego, Escondido, CA.*
- 14:00 s60 Release of puppet-reared California Condors in Baja California, an experiment with a newly modified technique. MICHAEL WALLACE, *Zoological Society of San Diego, Escondido, CA*, MICHAEL CLARK, *Los Angeles Zoo, Los Angeles, CA*, JUAN VARGAS and CATALINA PORRAS, *Zoological Society of San Diego, Escondido, CA.*
- 14:15 s61 Rearing California Condors for release using a modified puppet-rearing technique. MICHAEL CLARK, *Los Angeles Zoo, Los Angeles, CA*, MICHAEL WALLACE, *Zoological Society of San Diego, Escondido, CA*, and CHANDRA DAVID, *Los Angeles Zoo, Los Angeles, CA.*
- Plenary 4      16:00    Cuckoos versus hosts: coevolution and chick-tuning. NICK B. DAVIES, Dept. Zool., Univ. Cambridge, Cambridge, UK.**

## **Part 2: General Papers**

## WEDNESDAY, 24 August 2005

For general paper sessions

"A" sessions held in Corwin East

"B" sessions held in Lotte Lehmann

"C" sessions held in Flying A Room

### Session 1A. Breeding biology. Karl L. Kosciuch, chair.

- 10:15 1 \* High nest desertion frequencies by Bell's Vireo in Kansas: population-specific adaptation or a generalized response? KARL L. KOSCIUCH and BRETT K. SANDERCOCK, *Div. Biol., Kansas State Univ., Manhattan, KS.*
- 10:30 2 \* Isotopic evidence of income breeding in two arctic nesting birds. SHONA L. LAWSON, *Dept. Biol., Univ. Saskatchewan, Saskatoon, SK*, and RAY T. ALISAUSKAS, *Canadian Wildl. Serv., Saskatoon, SK and Dept. Biol., Univ. Saskatchewan, Saskatoon, SK.*
- 10:45 3 \* What is a nest? Influence of nest definition on estimates of nesting success in Burrowing Owls. VICTORIA GARCIA and COURTNEY J. CONWAY, *Arizona Coop. Fish & Wildl. Res. Unit, School Nat. Res., Univ. Arizona, Tucson, AZ.*
- 11:00 4 \* Nest predation and the expression of alternative reproductive strategies: an experimental test. J. J. FONTAINE and T. E. MARTIN, *Montana Coop. Wildl. Res. Unit, Univ. Mont., Missoula, MT.*
- 11:15 5 \* Non-destructive sampling of maternal DNA from the external shell of bird eggs. GREGORY SCHMALTZ, CHRISTOPHER M. SOMERS, PRIYA SHARMA and JAMES S. QUINN, *Dept Biol., McMaster Univ., Hamilton, ON.*
- 11:30 6 \* Reproductive ecology of the cooperatively polyandrous Galápagos Hawk: how many males are enough – and who decides? KENNETH M. LEVENSTEIN, *Env. Sci. Prog., Dept. Biol. Sci., Arkansas State Univ., Jonesboro, AR*, JAMES C. BEDNARZ, *Dept. Biol. Sci., Arkansas State Univ., Jonesboro, AR*, MICHELLE D. CANNON, *Dept. Forest Sci., Oregon State Univ., Corvallis, OR*, and PATRICIA G. PARKER, *Dept. Biol., Univ. St. Louis, St. Louis, MO.*
- 11:45 7 \* Immunocompetence and neonatal daily investigator handling of two cavity nesting species. MICHAEL W. BUTLER and ALFRED M. DUFTY, Jr., *Dept. Biol., Boise State Univ., Boise, ID.*
- 12:00 8 \* Asynchronous hatching in Florida Scrub-Jays is associated with lighter females and smaller egg volumes. RAOUL K. BOUGHTON, ELI BRIDGE, STEPHEN J SCHOECH, *Univ. Memphis, Memphis, TN*, and REED BOWMAN, *Archbold Biol. Sta, Lake Placid, FL.*
- 12:15 9 \* Habitat-specific demography and invasion by exotic forest birds in Hawaii. JEFFREY T. FOSTER, *Univ. Illinois, Urbana-Champaign, IL.*

### Session 1B. Conservation. Robert J. Cooper, chair.

- 10:15 10 Video evidence and sightings of Ivory-billed Woodpecker in eastern Arkansas in 2004 - 2005. KENNETH V. ROSENBERG, JOHN W. FITZPATRICK, MARTJAN LAMMERTINK and RONALD W. ROHRBAUGH, *Lab. Ornithol., Cornell Univ., Ithaca NY.*
- 10:30 11 Status of recent acoustic search for Ivory-billed Woodpecker in the U.S. R. A. CHARIF, K. A. CORTOPASSI, K. M. FRISTRUP, H. K. FIGUEROA, K. V. ROSENBERG and J. W.

FITZPATRICK, *Lab. Ornithol., Cornell Univ., Ithaca, NY.*

- 10:45 12 When standard techniques fall short – novel and adapted survey methods for finding the Ivory-billed Woodpecker and other ultra rare species. R. W. ROHRBAUGH, M. LAMMERTINK, E. C. H. SWARTHOUT, P. H. WREGE, K. V. ROSENBERG, S. BARKER SWARTHOUT and J. W. FITZPATRICK, *Lab. Ornithol., Cornell, Univ., Ithaca, NY.*
- 11:00 13 What do we know about the effects of current management practices in the Mississippi Alluvial Valley on Ivory-billed Woodpeckers? ROBERT J. COOPER, *Warnell School For. Res., Univ. Georgia, Athens, GA.*
- 11:15 14 An experimental study of the impact of Red-cockaded Woodpecker cavity management on the longleaf pine cavity-nesting bird community. LORI A. BLANC and JEFFREY R. WALTERS, *Dept. Biol., Virginia Tech Univ., Blacksburg, VA.*
- 11:30 15 Response of wintering Kirtland's Warblers to patch dynamics: an emerging view of Kirtland's Warbler habitat use in the Bahamas. JOSEPH M. WUNDERLE, Jr, *U.S. Forest Service, PR*, DAVID CURRIE, *Puerto Rican Conservation Foundation, PR*, and DAVID N. EWERT, *The Nature Conservancy, MI.*
- 11:45 16 Winter Wrens and ecological forestry: an analysis of breeding and winter ecology. NICHOLAS A. PALAZZOTTO and DAVID A. MANUWAL, *Coll. Forest Res., Univ. Washington, Seattle, WA.*
- 12:00 17 The effects of exurban development on the reproductive success of three species of Neotropical migrant songbirds breeding in forest fragments. DAWN M. BURKE, *Sci. & Info. Unit, Ontario Ministry Nat. Res., London, ON*, SONYA RICHMOND and ERICA NOL, *Watershed Ecosys. Grad. Prog., Trent Univ., Peterborough, ON.*
- 12:15 18 Evaluating habitat model predictions of saltmarsh sparrow abundance and productivity. CHRIS ELPHICK, CARINA GJERDRUM and MARGARET RUBEGA, *Ecol. & Evol. Biol., Univ. Connecticut, Storrs, CT.*

**Session 1C. Evolution. Farah Ishtiaq, chair.**

- 10:15 19 Prevalence and evolutionary relationships of haematozoan parasites in native versus introduced populations of Common Myna. FARAH ISHTIAQ, JON S. BEADELL, *Genetics Prog., Smithsonian Inst., Washington, DC*, ALLAN J. BAKER, *Centre Biodiv. & Conserv. Biol., Royal Ontario Mus., Toronto, ON*, ASAD R. RAHMANI, *Bombay Nat. Hist. Soc., Mumbai, India*, YADVENDRADEV V. JHALA, *Wildl. Inst. India, Dehra Dun, India*, and ROBERT C. FLEISCHER, *Genetics Prog., Smithsonian Inst.*
- 10:30 20 Hemoglobins track hummingbird evolution into the high Andes. CHRISTOPHER C. WITT and JIMMY A. McGUIRE, *Mus. Vert. Zool., Univ. California Berkeley, CA.*
- 10:45 21 Killing forces of North American accipiters and falcons: musculo-skeletal underpinnings to differences in foraging behavior. DIEGO SUSTAITA and FRITZ HERTEL, *Dept. Biol., California State Univ., Northridge, CA.*
- 11:00 22 Courting bird sings with stridulating wing feathers. KIMBERLY S. BOSTWICK, *Dept. Ecol. & Evol. Biol., Cornell Univ., Ithaca, NY.*
- 11:15 23 Relationships of the Papuan Swiftlet and the evolution of avian echolocation. J. JORDAN PRICE, *Dept. Biol., St. Mary's College of Maryland, St. Mary's City, MD*, KEVIN P. JOHNSON, *Illinois Nat. Hist. Surv., Champaign, IL*, SARAH E. BUSH and DALE H. CLAYTON, *Dept. Biol., Univ. Utah, Salt Lake City, UT.*

- 11:30 24 Evolution of cryptic coloration in host-specific parasites. D. KIM and D. H. CLAYTON, *Dept. Biol., Univ. Utah, Salt Lake City, UT.*
- 11:45 25 vacant
- 12:00 26 Why migrate? tests of alternative hypotheses in Burrowing Owls. COURTNEY J. CONWAY, *USGS Arizona Coop. Fish & Wildl. Res. Unit, School Nat. Res., Univ. Arizona, Tucson, AZ.*
- 12:15 27 Evolution of condition-dependence in sexual ornamentation: a novel perspective. ALEXANDER V. BADIYAEV, *Ecol. & Evol. Biol., Univ. Arizona, Tucson, AZ.*

**Session 2A. Breeding biology. Margret I. Hatch, chair.**

- 13:30 28 \* Ontogenic sex ratio variation, male-biased adult sex ratio, and higher female variance in reproductive success in Nazca Boobies. TERRI J. MANESS, MARK A. WESTBROCK and DAVID J. ANDERSON, *Biol. Dept., Wake Forest Univ., Winston-Salem, NC.*
- 13:45 29 \* Biased hatching sex ratio in the size dimorphic Nazca Booby suggests constraint rather than adaptation. MARK A. WESTBROCK and DAVID J. ANDERSON, *Dept. Biol., Wake Forest Univ., Winston-Salem, NC.*
- 14:00 30 \* The importance of multi-scale habitat characteristics to brood parasitism of the Prothonotary Warbler within a bottomland hardwood forest. J. J. GANNON and R. J. COOPER, *Warnell School For. Res., Univ. Georgia, Athens, GA.*
- 14:15 31 A comparison of Eastern Meadowlark breeding ecology in southwestern Wisconsin: 1950s vs. 2000s. MICHAEL J. GUZY, *Dept. Wildl. Ecol., Univ. Wisconsin, Madison, WI*, CHRISTINE A. RIBIC, *USGS Wisconsin Coop. Wildl. Res. Unit, Dept. Wildl. Ecol., Univ. Wisconsin*, DAVID W. SAMPLE, *Bureau Integrated Sci. Serv., Wisconsin Dept. Nat. Res., Monona, WI*, and WESLEY E. LANYON, *Am. Mus. Nat. Hist., New York, NY.*
- 14:30 32 Population genetic structure in the American Redstart. GABRIEL J. COLBECK, MICHAEL S. WEBSTER, *School Biol. Sci., Washington State Univ., Pullman, WA*, H. LISLE GIBBS, *Dept. Evol., Ecol. & Organ. Biol., Ohio State Univ., Columbus, OH*, and PETER P. MARRA, *Smithsonian Environ. Res. Ctr., Edgewater, MD.*
- 14:45 33 Age-related patterns of reproductive success in House Sparrows: individual performance. MARGRET I. HATCH and DAVID F. WESTNEAT, *Dept. Biol., Univ. Kentucky, Lexington, KY.*
- 15:00 34 Helpers-at-the-nest do not improve reproductive success in American Crows in Ithaca, NY. DOUGLAS A. ROBINSON, Jr., ANNE B. CLARK, *Dept. Biol. Sci., Binghamton Univ., Binghamton, NY*, and KEVIN J. MCGOWAN, *Lab. Ornithol., Cornell Univ., Ithaca, NY.*
- 15:15 35 Female extra-territorial forays and male song in Hooded Warblers. IOANA CHIVER, BRIDGET J. M. STUTCHBURY, *Dept. Biol., York Univ., Toronto, ON*, and EUGENE S. MORTON, *Hemlock Hill Biol. Sta., Cambridge Springs, PA.*

**Session 2B. Conservation. Rua M. Stob, chair.**

- 13:30 36 Long-term avifaunal impoverishment in an isolated tropical woodlot. NAVJOT S. SODHI, TIEN MING LEE, *Dept. Biol. Sci., Natl. Univ. Singapore, Singapore*, LIAN PIN KOH, *Dept. Ecol. Evol. Biol., Princeton Univ., Princeton, NJ*, and DEWI M. PRAWIRADILAGA, *LIPI, Cibinong, Indonesia.*

- 13:45 37 New perspectives on the historical decline of Hawaiian forest birds. PAUL C. BANKO and WINSTON E. BANKO, *Pacific Island Ecosys. Res. Ctr., Hawaii Natl. Park, HI.*
- 14:00 38 Translocation of an endangered passerine, the Palila. C. FARMER and P. C. BANKO, *Pacific Island Ecosys. Res. Ctr., Hawaii Natl. Park, HI.*
- 14:15 39 \* Threshold limits of hardwood midstory for foraging Red-cockaded Woodpeckers, in loblolly (*Pinus taeda*) / shortleaf (*Pinus echinata*) pine ecosystems in east Texas. JOHN N. MACEY, D. BRENT BURT, *Dept. Biol., Stephen F. Austin State Univ., Nacogdoches, TX*, RICHARD N. CONNER, *USFS, Southern Res. Sta., Nacogdoches, TX*, and LANCE McBRAYER, *Dept. Biol., Stephen F. Austin State Univ.*
- 14:30 40 \* Large-scale habitat features and Swallow-tailed Kite nest success in Georgia: integrating cost-explicit models into species management. RUA M. STOB, ROBERT J. COOPER, *Warnell School of Forest Resources, Univ. Georgia, Athens, GA*, and KEN MEYER, *Avian Research and Conservation Institute, Gainesville, FL.*
- 14:45 41 \* Critical wintering site for Great Lakes Piping Plovers. BRANDON L. NOEL and C. RAY CHANDLER, *Dept. Biol., Georgia Southern Univ., Statesboro, GA.*
- 15:00 42 \* Henslow's Sparrow winter survival estimates and response to prescribed burning. BENJAMIN S. THATCHER, DAVID G. KREMENTZ, *USGS Arkansas Coop. Fish & Wild. Res. Unit, Dept. Biol. Sci., Univ. Arkansas, Fayetteville, AR*, and MARK S. WOODREY, *U.S. Fish & Wildl. Serv., Jackson, MS.*
- 15:15 43 \* Comparison of historical and current nesting habitat for Interior Least Terns on the Arkansas River, Arkansas. ERIN L. KNOLL and TOM E. NUPP, *Fish. & Wildl. Prog., Arkansas Tech Univ., Russellville, AR.*

**Session 2C. Population biology. Brett K. Sandercock, chair.**

- 13:30 44 Demography of Upland Sandpipers in an experimental prairie landscape. BRETT K. SANDERCOCK, *Div. Biol., Kansas State Univ., Manhattan, KS.*
- 13:45 45 Factors affecting nest and post-fledging survival in a Swainson's Thrush population. JENNIFER D. WHITE, *Div. Biol. Sci., Univ. Missouri, Columbia, MO*, THOMAS GARDALI, *Point Reyes Bird Observ. Conserv. Sci., Stinson Beach, CA*, FRANK R. THOMPSON III, *USDA For. Serv., North Central Res. Sta., Columbia, MO*, and JOHN FAABORG, *Div. Biol. Sci., Univ. Missouri, Columbia, MO.*
- 14:00 46 Apparent survival and recruitment rates of Aplomado Falcons differ due to origin and study site. JESSI L. BROWN, *Peregrine Fund, Boise, ID*, MICHAEL W. COLLOPY, *Dept. Nat. Res. & Env. Sci., Univ. Nevada-Reno, Reno, NV*, ERIN J. GOTT and PAUL W. JUERGENS, *Peregrine Fund.*
- 14:15 47 Combining demographic approaches to identify source-sink dynamics: an example using an endangered seabird. STEVEN R. BEISSINGER, M. ZACHARIAH PEERY, *Dept. Environ. Sci., Policy & Manage., Univ. California, Berkeley, CA*, and BENJAMIN H. BECKER, *Point Reyes Natl. Seashore, Point Reyes Station, CA.*
- 14:30 48 Survival and breeding dispersal estimation in American Redstart in relation to condition-dependent site tenacity: a multi-state capture-resight analysis. THOMAS W. SHERRY, *Dept. Ecol. & Evol. Biol., Tulane Univ., New Orleans, LA*, JEAN-DOMINIQUE LEBRETON, *CEFE, CNRS, Montpellier, France*, and RICHARD T. HOLMES, *Dept. Biol. Sci., Dartmouth Coll., Hanover, NH.*

- 14:45 49 Population declines of Neotropical-wintering landbirds appear to be driven primarily by processes that affect overwintering site persistence and annual survival. DAVID F. DeSANTE, DANIELLE R. KASCHUBE and JAMES F. SARACCO, *Inst. Bird Pop., Point Reyes Station, CA.*
- 15:00 50 Harvest, density dependence, and survival in Black Brant: a 50 year record of population dynamics. JAMES S. SEDINGER, *Nat. Res. & Environ. Sci., Univ. Nevada Reno, Reno, NV*, CHRISTOPHER A. NICOLAI, *Prog. Ecol., Evol. & Conserv. Biol., Univ. Nevada Reno*, CALVIN J. LENSINK, *U.S. Fish & Wildl. Serv. (retired), Buffalo, MN*, CYNTHIA WENTWORTH, *U.S. Fish & Wildl. Serv., Anchorage, AK*, and BRUCE CONANT, *U.S. Fish & Wildl. Serv., Juneau, AK.*
- 15:15 51 Site tenacity of Buff-breasted Sandpipers at Brazilian wintering sites. JULIANA B. ALMEIDA, *Prog. Ecol., Evol. & Conserv. Biol., Univ. Nevada Reno, Reno, NV*, and LEWIS W. ORING, *Dept. Nat. Res. & Environ. Sci., Univ. Nevada Reno.*

#### FRIDAY, 26 August 2005

For general paper sessions

- "A" sessions held in Flying A Room
- "B" sessions held in MCC Theatre
- "C" sessions held in Corwin East
- "D" sessions held in Harbor Room
- "E" sessions held in Corwin West

#### Session 3A. Systematics. John Klicka, chair.

- 10:15 52 Phylogeny of tropical Pacific flycatchers: is there a Polynesian avifauna? ROBERT G. MOYLE and CHRISTOPHER E. FILARDI, *Dept. Ornithol., Am. Mus. Nat. Hist., New York, NY.*
- 10:30 53 Phylogenetics of *Leptotila* doves: an empirical example of why the ILD test is still useful. JASON D. WECKSTEIN and KEVIN P. JOHNSON, *Illinois Nat. Hist. Surv., Champaign, IL.*
- 10:45 54 Phylogenetic relationships of the Madagascar Pygmy Kingfisher. BEN D. MARKS, *Mus. Nat. Sci. and Dept. Biol. Sci., Louisiana State Univ., Baton Rouge, LA*, and DAVID E. WILLARD, *Field Mus., Chicago, IL.*
- 11:00 55 Temperate and tropical New World sparrows (Emberizini), two separate clades? a mtDNA perspective. JOHN KLICKA and GARTH M. SPELLMAN, *Barrick Mus., Univ. Nevada Las Vegas, Las Vegas, NV.*
- 11:15 56 Systematics of *Cercomacra* antbirds (Aves: Thamnophilidae): the paraphyly of a widespread Neotropical genus. JOSE G. TELLO, *Dept. Ornithol., Am. Mus. Nat. Hist., New York, NY.*
- 11:30 57 \* Nuclear and mitochondrial sequence data drummed the traditional taxonomy and biogeographic history of the woodpeckers (Picidae). J. FUCHS, E. PASQUET, *Mus. Nat. d'Hist. Nat., Paris, France*, P. G. P. ERICSON and J. I. OHLSON, *Swedish Mus. Nat. Hist., Stockholm.*
- 11:45 58 \*Population genetic of the Streak-backed Oriole (*Icterus pustulatus*): is genetic data and their population history supporting the recognition of different species? MARIA N. CORTES-RODRIGUEZ, BLANCA E. HERNANDEZ-BAÑOS, ADOLFO G, NAVARRO-SIGUENZA, *Museo de Zoología, Depto. Biología Evolutiva, Facultad de*

*Ciencias, Univ. Nacional Autónoma de México, México, ELIZABETH HUMPFRIES and KEVIN E. OMLAND, Dept. Biol. Sci., Univ. Maryland-Baltimore Co., Baltimore, MD.*

- 12:00 59 \* Historical biogeography of southern Asia: continental diversification of birds. SUSHMA REDDY, *Field Mus., Chicago, IL.*
- 12:15 60 \* Migration and morphology: phylogenetically independent changes in covariance structure in migratory *Ficedula* flycatchers (Muscicapidae). DIANA C. OUTLAW and GARY VOELKER, *Dept. Biol., Univ. Memphis, Memphis TN.*

**Session 3B. Conservation. Daniel H. Kim, chair.**

- 10:15 61 Conservation of Purple Martin pre-migratory roosts located using doppler radar. J. R. HILL III, P. M. KRAMER and J. TAUTIN, *Purple Martin Conserv. Assoc., Edinboro, PA.*
- 10:30 62 Population stability of Purple Martins in the eastern United States and some influential factors. SCOTT A. RUSH, *Warnell School For. Res., Univ. Georgia, Athens, GA*, JAMES R. HILL, III, PATRICK KRAMER, JOHN TAUTIN, *Purple Martin Conserv. Assoc., Edinboro, PA*, and BRIDGET J. M. STUTCHBURY, *Biol. Dept., York Univ., Toronto, ON.*
- 10:45 63 Advancing restoration science through research, monitoring, and modeling of bird populations dependent on tidal marsh habitat in San Francisco Estuary. NADAV NUR, MARK HERZOG, NILS WARNOCK, DIANA STRALBERG, LEONARD LIU, *Point Reyes Bird Observ. Conserv. Sci., Stinson Beach, CA*, and HILDIE SPAUTZ, *Wetlands Wildl. Assoc., El Cerrito, CA.*
- 11:00 64 Age ratios as estimators of productivity: assumptions and applications to Marbled Murrelets. M. ZACHARIAH PEERY, *Moss Landing Marine Lab., Moss Landing, CA*, BENJAMIN H. BECKER, *Point Reyes Natl. Seashore, CA*, and STEVEN R. BEISSINGER, *Univ. California, Berkeley, CA.*
- 11:15 65 \*Modeling tropical forest patch occupancy by resident and migrant birds of the Caribbean lowlands of Costa Rica: a multi-scaled approach. DINA L. ROBERTS, EDWARD O. GARTON, *Dept. Fish & Wildl., Univ. Idaho, Moscow, ID*, and CELIA A. HARVEY, *CATIE, Turrialba, Costa Rica.*
- 11:30 66 Characteristics of snags containing excavated cavities in northern Arizona mixed-conifer and ponderosa pine forests. JOSEPH L. GANEY and SCOTT C. VOJTA, *USDA Forest Service, Rocky Mountain Res. Sta., Flagstaff, AZ.*
- 11:45 67 Effects of burning and grazing upon body condition and nest success in Bobolinks. DANIEL H. KIM, *Platte River Trust, Wood River, NE*, and J. PATRICE STEWART, *Dept. Wildl. Fish. Sci, Texas A&M Univ., College Station, TX.*
- 12:00 68 Good guys or bad guys: are wintering Bobolinks a pest or a beneficial species in South American croplands? ROSALIND B. RENFREW, *Vermont Inst. Nat. Sci., Woodstock, VT*, and ANA MARIA SAAVEDRA, *Museo de Historia Natural de Noel Kempff Mercado, Santa Cruz, Bolivia.*
- 12:15 69 The R3/R5 Impoundment Study: a large-scale management experiment. JAMES E. LYONS, *USGS Patuxent Wildl. Res. Ctr., Laurel, MD*, HAROLD P. LASKOWSKI, *U.S. Fish & Wildl. Serv., Milton, DE*, MICHAEL C. RUNGE, *USGS-Patuxent Wildl. Res. Ctr, SOCHEATA LOR, U.S. Fish & Wildl. Serv., LaCrosse, WI*, WILLIAM L. KENDALL, *USGS-Patuxent Wildl. Res. Ctr, and SUSAN TALBOTT, U.S. Fish & Wildl. Serv., Milton, DE.*

**Session 3C. Behavior. David J. Delehanty, chair.**

- 10:15 70 Optimal grit acquisition by Black Brant. EMILY R. BJERRE and JEFFREY M. BLACK, *Wildl. Dept., Humboldt State Univ., Arcata, CA.*
- 10:30 71 An experimental mate-loss experiment in Black Brant: effects of male mate loss on breeding probability, clutch size, and nest initiation dates. CHRISTOPHER A. NICOLAI, *Prog. Ecol., Evol. & Conserv. Biol., Univ. Nevada Reno, Reno, NV,* and JAMES S. SEDINGER, *Dept. Nat. Res. & Environ. Sci., Univ. Nevada Reno.*
- 10:45 72 An analysis of the large-scale predatory behavior of wintering *Accipiter* hawks: an analysis of the large-scale predatory behavior of wintering *Accipiter* hawks. TIMOTHY C. ROTH II and STEVEN L. LIMA, *Dept. Ecol. & Organismal Biol., Indiana State Univ., Terre Haute, IN.*
- 11:00 73 Behavioral and morphological asymmetries in Chukar copulation. DAVID J. DELEHANTY and PAMELA PAASCHÉ O'HEARN, *Dept. Biol. Sci., Idaho State Univ., Pocatello, ID.*
- 11:15 74 Bright plumage predicts male mating success in the lekking Golden-collared Manakin, *Manacus vitellinus*. ADAM C. STEIN, *Dept. Biol., San Francisco State Univ., San Francisco, CA,* and J. ALBERT C. UY, *Dept. Biol., Syracuse Univ., Syracuse, NY.*
- 11:30 75 \* Calling is contagious in male Magellanic Penguins. J. ALAN CLARK and P. DEE BOERSMA, *Dept. Biol., Univ. Washington, Seattle, WA.*
- 11:45 76 \* Inter-pair communication via duets among California Towhees. LAURYN BENEDICT, *Mus. Vert. Zool. and Dept. Integrative Biol., Univ. California Berkeley, Berkeley, CA.*
- 12:00 77 \* Effects of nutritional condition on the response to mate-loss by permanent-resident territorial birds: tests of predictions from dynamic optimality theory. JENNIFER T. ELLIOTT and THOMAS C. GRUBB, Jr., *Dept. Evol., Ecol. & Organismal Biol., Ohio State Univ., Columbus, OH.*
- 12:15 78 Evaluating coalition formation scenarios using microsatellite data in Wild Turkeys. ALAN H. KRAKAUER, *Mus. Vert. Zool. and Dept. Integrative Biol., Univ. California Berkeley, Berkeley, CA.*

**Session 3D. Foraging and diet. Margaret Rubega, chair.**

- 10:15 79 \* Diet assessment of Northern Fulmars in Alaska using fatty acid signature analysis. SHIWAY W. WANG, *School Fish. & Ocean Sci., Univ. Alaska-Fairbanks, Fairbanks, AK,* SARA J. IVERSON, *Dept. Biol., Dalhousie Univ., Halifax, NS,* ALAN M. SPRINGER, *Inst. Marine Sci., Univ. Alaska-Fairbanks, Fairbanks, AK,* and SCOTT A. HATCH, *USGS, Alaska Sci. Ctr., Anchorage, AK.*
- 10:30 80 \* Winter diet and seed selection of Henslow's Sparrows in southeastern Louisiana. JENNIFER K. DiMICELI, ERIK I. JOHNSON and PHILIP C. STOUFFER, *School Renew. Nat. Res., Louisiana State Univ. Baton Rouge, LA.*
- 10:45 81 \* Biomechanics of prey processing in Carmine and White-throated bee-eaters (*Merops*). KIRA SULLIVAN-WILEY, MARGARET RUBEGA, *Dept. Ecol. & Evol. Biol., Univ. Connecticut, Storrs, CT,* and CHRISTINE SHEPPARD, *Dept. Ornithol., Bronx Zoo, Wildl. Conserv. Soc., Bronx, NY.*
- 11:00 82 \* Using digital photographs and GIS software to estimate cover within 2-m<sup>2</sup> plots. JASON D. LUSCIER, *Dept. Biol. Sci., Univ. Arkansas, Fayetteville, AR,* WILLIAM L. THOMPSON,

*Natl. Park Serv., Anchorage, AK, JOHN M. WILSON and BRUCE E. GORHAM, Center Advanced Spatial Tech., Univ. Arkansas, Fayetteville, AR.*

- 11:15 83 Diet shift in Heermann's Gulls during the non-breeding season. WALTER WEHTJE, *California State Univ., Northridge, CA*, DANIEL W. ANDERSON, *Univ. California, Davis, CA*, and FRITZ HERTEL *California State Univ., Northridge*.
- 11:30 84 Global climate acts locally: ENSO explains much of the observed inter-year variation in timing of reproduction in Florida Scrub-Jays. STEPHAN J. SCHOECH, ELI BRIDGE, *Dept. Biol., Univ. Memphis, Memphis, TN*, R. BOWMAN, *Archbold Biol. Stn, Lake Placid, FL*, RAOUL K. BOUGHTON, *Dept. Biol., Univ. Memphis*, RONALD L. MUMME, *Dept. Biol., Allegheny Coll., Meadville, PA*, JOHN W. FITZPATRICK, *Lab. Ornithol., Cornell Univ., Ithaca, NY*, and GLEN E. WOOLFENDEN, *Archbold Biol. Stn*.
- 11:45 85 Tongue-jerking in Ruddy Turnstones: a novel form of prey transport. MARGARET RUBEGA, CARINA GJERDRUM, KURT SCHWENK, GREGOR YANEGA and KIRA SULLIVAN-WILEY, *Ecol. & Evol. Biol., Univ. Connecticut, Storrs, CT*.
- 12:00 86 West Nile virus devastates an American Crow population. CAROLEE CAFFREY, *Biol. Dept., Coll. New Jersey, Ewing, NJ*, SHAUNA C. R. SMITH and TIFFANY J. WESTON, *Zool. Dept., Oklahoma State Univ., Stillwater, OK*.
- 12:15 87 Home range and diet in two species of Amazonian toucans. KIMBERLY M. HOLBROOK, *Dept. Biol., Univ. Missouri-St. Louis, St. Louis, MO*.

**Session 3E. Ecology. Pamela D. Hunt, chair.**

- 10:15 88 Measuring territory size for a forest songbird. EMILY SILVERMAN, JASON LAW, *School Nat. Res. & Environ., Univ. Michigan, Ann Arbor, MI*, and KIMBERLY HALL, *Dept. Fish. & Wildl., Michigan State Univ., East Lansing, MI*.
- 10:30 89 Yellow-chevroned Parakeet range expansion in southern California – a spatial spread model. KAREN T. MABB, *Dept. Ecol., Evol. & Nat. Res., Rutgers Univ., New Brunswick, NJ*, and KIMBALL L. GARRETT, *Nat. Hist. Mus. Los Angeles Co., Los Angeles, CA*.
- 10:45 90 Site fidelity in an isolated mountaintop population of Blackpoll Warblers in New Hampshire. PAMELA D. HUNT, *New Hampshire Audubon, Concord, NH*.
- 11:00 91 Effects of pinyon-pine mortality on birds of pinyon-juniper woodlands. SCOTT R. SCHLOSSBERG and JEFFREY D. BRAUN, *Prog. Ecol. Evol. Biol, Univ. Illinois, Champaign, IL*.
- 11:15 92 Persistence of tropical forest birds in agricultural countryside. CAGAN SEKERCIOGLU, GRETCHEN DAILY, PAUL EHRLICH, *Dept. Biol. Sci. Stanford Univ. Center Conserv. Biol., Stanford, CA*, SCOTT R. LOARIE, *Nicholas School Environ. & Earth Sci, Duke Univ., Durham, NC*, and VIVIAN RUIZ-GUTIERREZ, *Dept. Ecol. & Evol. Biol. Cornell Univ. Ithaca. NY*.
- 11:30 93 Effects of birds on sapling growth in the Maurepas Swamp, Louisiana. DAVID M. FOX and PHILIP C. STOUFFER, *Dept. Renew. Nat. Res., Louisiana State Univ., Baton Rouge, LA*.
- 11:45 94 Effects of fire on movements, body condition, and abundance of wintering Henslow's Sparrows in southeastern Louisiana. ERIK I. JOHNSON, JENNIFER K. DiMICELI and PHILIP C. STOUFFER. *School Renew. Nat. Res., Louisiana State Univ., Baton Rouge, LA*.

- 12:00 95 Effects of landscape context on raptor distributions in an urbanizing region of southern California. ALLISON D. RUDALEVIGE and JOHN T. ROTENBERRY, *Dept. Biol., Univ. California, Riverside, Riverside, CA.*
- 12:15 96 Territory choice at two scales in males and females of the Swamp Sparrow. BRIAN J. OLSEN, *Dept. Biol. Sci., Virginia Tech, Blacksburg, VA*, RUSSELL GREENBERG, *Smithsonian Migr. Bird Ctr., Smithsonian Natl. Zool. Park, Washington, DC*, and JEFFREY R. WALTERS, *Dept. Biol. Sci., Virginia Tech, Blacksburg, VA.*

**Session 4A. Physiology. Alfred M. Dufty, Jr., chair.**

- 13:30 97 Stress responsiveness in nestlings: a comparison of two sampling techniques. ALFRED M. DUFTY, Jr., *Dept. Biol., Boise State Univ., Boise, ID.*
- 13:45 98 Evidence of facultative rest-phase hypothermia in free-ranging Northern Mockingbirds during winter. ANDREW S. DOLBY, JOHN G. TEMPLE, EMILY A. KIMMITT and KELLY C. MINTON, *Dept. Biol. Sci., Univ. Mary Washington, Fredericksburg, VA.*
- 14:00 99 \* Effects of tail elongation on body drag, metabolic rate, and top speed of Anna's Hummingbird. CHRISTOPHER JAMES CLARK and ROBERT DUDLEY, *Integ. Biol., Univ. California-Berkeley, Berkeley, CA.*
- 14:15 100 \* Singing in the Rain: growth of the song control system in free-ranging adult male Rufous-winged Sparrows. CHRISTINE R. STRAND, THOMAS W. SMALL and PIERRE DEVICHE, *School Life Sci., Arizona State Univ., Tempe, AZ.*
- 14:30 101 \* Effect of increased temperature on growth rate in thermally dependent altricial nestlings. JEFFREY J. KOVATCH and F. REED HAINSWORTH, *Dept. Biol., Syracuse Univ., Syracuse, NY.*
- 14:45 102 \* Do morphological characteristics correlated with in-flight heart rate and wing-beat frequency vary with arrival date in the Swainson's Thrush? MELISSA S. BOWLIN and MARTIN C. WIKELSKI, *Dept. Ecol. & Evol. Biol., Princeton Univ., Princeton, NJ.*

**Session 4B. Conservation. Sara Kaiser, chair.**

- 13:30 103 Recovery status of the endangered San Clemente Loggerhead Shrike, 1998 - 2004. SUELLEN LYNN, HEATHER A. CARLISLE, NILS WARNOCK, *Point Reyes Bird Observ. Conserv. Sci., Stinson Beach, CA*, ERIC L. KERSHNER, *Inst. Wildl. Stud., San Diego, CA*, JEFF OPDYCKE, *Zool. Soc. San Diego, San Diego, CA*, and M. KELLY BROCK, *U.S. Navy, San Diego, CA.*
- 13:45 104 vacant
- 14:00 105 Factors affecting supplemental food use by San Clemente Loggerhead Shrikes and influences on breeding productivity. SHANE R. HEATH, ERIC L. KERSHNER, *Inst. Wildl. Stud., San Diego, CA*, and SUELLEN LYNN, *Point Reyes Bird Observ. Conserv. Sci., Stinson Beach, CA.*
- 14:15 106 Low nest survivorship in a coastal California Warbling Vireo population. ERICA LINDGREN and FRANCIS X. VILLABLANCA, *Dept. Biol., California Poly State Univ., San Luis Obispo, CA.*
- 14:30 107 Conserving the endangered Yellow-breasted Chat: a riparian limited species at the northern limit of its range in the south Okanagan, BC. CHRISTINE A. BISHOP, *Canadian Wildl. Serv., Delta, BC*, TAWNA MORGAN, TONY WILLIAMS, *Simon Fraser*

*Univ., Burnaby, BC, LAURIE CARR, Nelson, BC, LUTZ TISCHENDORF, Elutis Modelling and Consulting Inc., Ottawa, ON, JASON EMERY, Solitudo Environmental Services, and RENE McKIBBIN, Delta, BC.*

14:45 108 Juvenile and adult survival rates in the endangered Hawaiian Stilt. J. M. REED, C. S. ELPHICK and M. D. SILBERNAGLE, *Dept. Biol. Tufts, Univ., Medford, MA.*

**Session 4C. Ecology. Edward H. Burtt, Jr., chair.**

13:30 109 Similarity of repeated samples of plumage microflora of resident birds in Arizona, Ohio and Washington. EDWARD H. BURTT, Jr., *Dept. Zool.*, and VINODKUMAR SARANATHAN, *Dept. Physics and Astronomy, Ohio Wesleyan Univ., Delaware, OH.*

13:45 110 \* Similarity of repeated samples of plumage microflora of short- and long-distance migrants. VINODKUMAR SARANATHAN, *Dept. Physics & Astronomy*, and EDWARD H. BURTT, Jr., *Dept. Zool., Ohio Wesleyan Univ., Delaware, OH.*

14:00 111 \* Population genetics of Pygmy Nuthatches in southern California. THOMAS A. BENSON and ANTHONY E. METCALF, *Dept. Biol., California State Univ. San Bernardino, San Bernardino, CA.*

14:15 112 \* Modeling Mute Swan population dynamics: ecological, economic, ethical considerations. MARTHA ELLIS and CHRIS ELPHICK, *Ecol. & Evol. Biol., Univ. Connecticut, Storrs, CT.*

14:30 113 A comparison of home range estimators for Red-cockaded Woodpeckers in Upper Coastal Plain of South Carolina. KATHLEEN E. FRANZREB, *USDA Southern Res. Sta., Southern Appalachian Mts. Coop. Ecosys. Stud. Unit, Dept. For., Wildl. & Fish., Univ. Tennessee., Knoxville, TN.*

14:45 114 Survival consequences of delayed dispersal and the likelihood of breeding in the cooperatively breeding Acorn Woodpecker. JUSTYN T. STAHL, MADAN K. OLI, *Dept. Wildl. Ecol. & Conserv., Univ. Florida, Gainesville, FL*, and WALTER D. KOENIG, *Hastings Res. and Mus. Vert. Zool., Univ. California, Berkeley, Carmel Valley, CA.*

**Session 4D. Ecology. C. Ray Chandler, chair.**

13:30 115 vacant

13:45 116 West Nile virus of little or no consequence on resident bird populations. C. JOAN PATTERSON and DOUGLAS A. JAMES, *Dept. Biol. Sci., Univ. Arkansas, Fayetteville, AR.*

14:00 117 Diet of Henslow's Sparrows wintering in pine savannas in coastal Mississippi. GINA T. FULLER, C. RAY CHANDLER, *Dept. Biol., Georgia Southern Univ., Statesboro, GA*, and MARK S. WOODREY, *Coastal Res. Center, Mississippi State Univ., Moss Point, MS.*

14:15 118 Variation in the abundance, distribution, and habitat associations of passerines wintering in salt marshes in Mississippi. MARK S. WOODREY, *Coastal Res. & Extension Center, Mississippi State Univ., Biloxi, MS*, and ROBERT J. COOPER, *Warnell School For. Res., Univ. Georgia, Athens, GA.*

14:30 119 Edge effects on the use of winter habitat by Boreal Chickadee flocks. ADAM S. HADLEY and ANDRE DESROCHERS, *Centre de recherche en biologie forestière, Université Laval, Québec, QC.*

14:45 120 Density dependent habitat selection by Henslow's sparrows. JAMES R. HERKERT, *The Nature Conservancy, Peoria, IL.*

**Session 4E. Habitat relationships. Nancy LaFleur, chair.**

13:30 121 Habitat as a predictor of hatch synchrony in the Brown-headed Cowbird. CHRISTOPHER M. TONRA, MATTHEW D. JOHNSON, *Dept. Biol., Humboldt State Univ., Arcata, CA*, SACHA K. HEATH, *Point Reyes Bird Observ. Conservation Sci., Bolinas, CA*, and MARK E. HAUBER, *Univ. Auckland, Auckland, New Zealand.*

13:45 122 Changes in bird abundance after wildfire: importance of fire severity and time since fire. RICHARD L. HUTTO and KRISTINA M. SMUCKER, *Avian Sci. Center, Univ. Montana, Missoula, MT.*

14:00 123 Selection of songpost trees by Flammulated Owls in Colorado. ERIC C. PALM, *Dept. Biol., Colorado Coll., Colorado Springs, CO.*

14:15 124 \* Avian community response to riparian area restoration: a novel use of robust design mark-recapture models. TRACEY N. JOHNSON and BRETT K. SANDERCOCK, *Div. Biol., Kansas State Univ., Manhattan, KS.*

14:30 125 \* The influence of spatial context on nest predation risk. ANNA D. CHALFOUN and THOMAS E. MARTIN, *Montana Coop. Wildl. Res. Unit, Univ. Montana, Missoula, MT.*

14:45 126 \* The fruits of success: an examination of the effectiveness of European Starlings as seed dispersers for invasive plants. NANCY LaFLEUR, MARGARET RUBEGA, *Dept. Ecol. & Evol. Biol., Univ. Connecticut, Storrs, CT*, and JASON PARENT, *Dept. Nat. Res. Eng. & Manage., Univ. Connecticut.*

**Session 5A. Systematics. F. Keith Barker, chair.**

15:30 127 A framework phylogeny of the parrots (Psittaciformes) derived from mitochondrial coding and nuclear intron sequences. TIMOTHY F. WRIGHT, ERIN E. SCHIRTZINGER, *Dept. Biol., New Mexico State Univ., Las Cruces, NM*, TANIA MATSUMOTO, *Dept. Biologia, Universidade de São Paulo, São Paulo, SP, Brasil*, JESSICA R. EBERHARD, *Dept. Biol., Louisiana State Univ., Baton Rouge, LA*, GARY R. GRAVES, *Natl. Mus. Nat. Hist., Smithsonian Inst., Washington DC*, and ROBERT C. FLEISCHER, *Genetics Prog., Natl. Mus. Nat. Hist.*

15:45 128 Phylogeny of the Sylvioidea from combined RAG-1 and RAG-2 sequences. F. KEITH BARKER, *Bell Mus. Nat. Hist., Univ. Minnesota, St. Paul, MN.*

16:00 129 Phylogenetic relationships and biogeography of New World pygmy owls (Strigiformes: *Glaucidium*). B. R. BARBER, *Bell Mus. Nat. Hist., Univ. Minnesota, St. Paul, MN*, MARK B. ROBBINS, *Nat. Hist. Mus. and Biodiv. Res. Center, Univ. Kansas, Lawrence, KS*, ANDREW W. JONES, *Bell Mus. Nat. Hist.*, and NATHAN H. RICE, *Acad. Nat. Sci., Philadelphia, PA.*

16:15 130 Phylogeographic patterns in the Thrush-like Mourner (*Schiffornis turdina*: Pipridae). ARPAD NYARI, *Nat. Hist. Mus. and Biodiv. Res. Center, Dept. Ecol. & Evol. Biol., Univ. Kansas, Lawrence, KS.*

16:30 131 Morphological variation and its taxonomic significance in the Lava Heron of the Galápagos Islands. FLOYD E. HAYES and RYAN T. STEPHENS, *Dept. Biol., Pacific Union Coll., Angwin, CA.*

- 16:45 132 Speciation in birds of paradise. J. CRACRAFT, *Am. Mus. Nat. Hist., New York, NY.*
- 17:00 133 Plumage pattern and coloration as correlates of avian morphology. MARK F. RIEGNER, *Environ. Stud. Prog., Prescott Coll., Prescott, AZ.*
- 17:15 134 Molecular phylogenetics of the Neotropical trogons (genus: *Trogon*): exploring patterns of evolution and diversification. JEFFREY M. DaCOSTA and JOHN KLICKA, *Marjorie Barrick Mus., Las Vegas, NV.*

**Session 5B. Conservation. R. Michael Erwin, chair.**

- 15:30 135 Raptor poisonings in southwestern British Columbia: lessons for species conservation elsewhere. JOHN E. ELLIOTT, LAURIE K. WILSON, *Canadian Wildl. Serv., Delta, BC,* and KYLE H. ELLIOTT, *Univ. British Columbia, Vancouver, BC.*
- 15:45 136 Effects of patch size and treatment method on early-successional birds in managed shrublands in New Hampshire. RICHARD B. CHANDLER, DAVID I. KING and CARLIN C. CHANDLER, *Dept. Nat. Res. Conserv., Univ. Massachusetts, Amherst, MA.*
- 16:00 137 Call-broadcast increases probability of detecting Band-tailed Pigeons during surveys. CHRIS KIRKPATRICK, KATIE M. HUGHES, *School Nat. Res., Univ. Arizona, Tucson, AZ,* COURTNEY J. CONWAY, *USGS Arizona Coop. Fish & Wildl. Res. Unit, Tucson, AZ,* and JAMES C. DeVOS, Jr., *Arizona Game and Fish Dept., Phoenix, AZ.*
- 16:15 138 The managed boreal forest in Quebec: a good habitat for Spruce Grouse? DELPHIN RUCHE, LOUIS IMBEAU, *Université du Québec en Abitibi-Témiscamingue, Rouyn-Noranda, QC,* and JEAN FERRON, *Université du Québec à Rimouski, Rimouski, QC.*
- 16:30 139 Bird communities in the South-East Himalayan and northern Burma foothills – what do we know? SWEN C. RENNER and JOHN H. RAPPOLE, *Conserv. & Res. Ctr, Smithsonian Inst., Front Royal, VA.*
- 16:45 140 Wetland restoration and birds: lessons from Florida, San Francisco Bay, and Chesapeake Bay. R. MICHAEL ERWIN, *USGS Patuxent Wildl. Res. Ctr., Dept. Envir. Sci., Univ. Virginia, Charlottesville, VA,* and PETER C. FREDERICK, *Dept. Wildl. Ecol. & Conserv., Univ. Florida, Gainesville, FL.*
- 17:00 141 The effects of fire on the Cape Sable Seaside Sparrow. DAVID A. LA PUMA, JULIE L. LOCKWOOD and MICHELLE J. DAVIS, *Dept. Ecol. & Evol., Rutgers Univ., New Brunswick, NJ.*
- 17:15 142 Nest placement in Western Snowy Plovers: can your neighbor lend a hand? KRISTA A. FAHY, *Dept. Ecol. Evol. & Marine Biol., Univ. California - Santa Barbara, Santa Barbara, CA.*

**Session 5C. Ecology. Sarah C. Coulter, Chair**

- 15:30 143 Qualitative and quantitative contributions of generalist and specialist frugivores to wax myrtle (*Myrica cerifera*) recruitment on Assateague Island. E. GARRETT LOWE, *Dept. Biol., Univ. Maryland, College Park, MD.*
- 15:45 144 \* Patterns of nest predation risk along a tropical altitudinal gradient. A. BOYLE, *Dept. Ecol. & Evol. Biol., School Nat. Res., Univ. Arizona, Tucson, AZ.*
- 16:00 145 \* The locust outbreak on Socorro Island: a devastating example of a disrupted avian

trophic cascade. JUAN E. MARTINEZ-GOMEZ, *Dept. Biol., Univ. Missouri - Saint Louis, Saint Louis MO and Island Endemics Foundation, San Francisco CA.*

- 16:15 146 \* Molt and fall migration ecology of the Harlequin Duck along the Gaspé Peninsula, Canada. ANNIE LANGLOIS, GILLES GAUTHIER, *Dept. Biol., Laval Univ., Québec, QC*, MICHEL ROBERT and JEAN-PIERRE L SAVARD, *Canadian Wildl. Serv., Québec, QC.*
- 16:30 147 \* Cardinals and West Nile virus: patterns and consequences. JAMES S. MARSHALL, *Dept. Evol., Ecol. & Organ. Biol., Ohio State Univ., Columbus, OH.*
- 16:45 148 \* Surveying for the Greater Roadrunner, a cryptic and low-density species, in fragmented southern California habitat patches. MARK B. MENDELSON, DOUGLAS H. DEUTSCHMAN, *Dept. Biol., San Diego State Univ., San Diego, CA*, and ROBERT N. FISHER, *U.S. Geol. Surv., Western Ecol. Res. Ctr., San Diego, CA.*
- 17:00 149 \* Locally adaptive bill morphology in Mexican Jays on an elevation gradient. JOHN E. McCORMACK, *Dept. Ecol. & Evol. Biol., Univ. California, Los Angeles, CA.*
- 17:15 150 \* Wood Thrush density, home ranges and movements in relation to forest management in the Atchafalaya Basin, Louisiana. SARAH C. COULTER, *Dept. Biol. Sci., Univ. Arkansas, Fayetteville, AR*, DAVID G. KREMENTZ, *USGS, Arkansas Coop. Fish & Wildl. Res. Unit, Dept. Biol. Sci., Univ. Arkansas*, LARKIN A. POWELL, *School Nat. Res., Univ. Nebraska, Lincoln, NE*, and KENNETH F. RIBBECK, *Louisiana Dept. Wildl. & Fish., Baton Rouge, LA.*

**Session 5D. Breeding biology. Susan J. Hannon, chair.**

- 15:30 151 Provisioning rules, begging patterns and the transition to fledgling independence in American Dippers. HOLLY A. MIDDLETON, DAVID J. GREEN and ELIZABETH A. KREBS, *Dept. Biol. Sci., Simon Fraser Univ., Burnaby, BC.*
- 15:45 152 Maternal effects in Wood Ducks: incubation temperature influences incubation period and neonate phenotype. GARY R. HEPP, *School For. & Wildl. Sci., Auburn Univ., AL*, ROBERT A. KENNAMER, *Savannah River Ecol. Lab., Aiken, SC*, and MARIBETH H. JOHNSON, *Office Biostat., Medical Coll. Georgia, Augusta, GA.*
- 16:00 153 Reproductive source/sink dynamics of American Redstarts in an agricultural matrix. SUSAN J. HANNON, *Dept. Biol. Sci., Univ. Alberta, Edmonton, AB.*
- 16:15 154 Interrelationships between territory density and breeding success of Ovenbirds. BRADY J. MATTSSON, *Warnell School For. Res., Univ. Georgia, Athens, GA*, and GERALD J. NIEMI, *Univ. Minnesota, Duluth, MN.*
- 16:30 155 Rapid reproductive response of male Rufous-winged Sparrows to increased rainfall: a role for termites? THOMAS W. SMALL, PIERRE DEVICHE, *School Life Sci., Arizona State Univ., Tempe, AZ*, and PETER SHARP, *Roslin Inst., Edinburgh, Scotland.*
- 16:45 156 Population biology of Long-billed Curlews breeding in northeastern Nevada. C. ALEX HARTMAN, and LEWIS W. ORING, *Prog. Ecol., Evol. & Conserv. Biol., Univ. Nevada Reno, Reno, NV.*
- 17:00 157 Diet quality influences breeding performance in Florida Scrub-Jays. REED BOWMAN, *Archbold Biol. Stn., Lake Placid, FL*, STEPHEN J. SCHOECH, *Univ. Memphis, TN*, and S. JAMES REYNOLDS, *Univ. Birmingham, UK.*

- 17:15 158 Sex-specific oocyte competition as a constraint on sex-ratio adjustment: comparison of native and recently expanded populations of House Finches. ALEXANDER V. BADYAEV and KEVIN P. B. OH, *Ecol. & Evol. Biol., Univ. Arizona, Tucson, AZ.*

**Session 5E. Evolution. Matthew D. Shawkey, chair.**

- 15:30 159 \* Combining genetics and stable isotopes to infer migratory connectivity of Loggerhead Shrikes wintering in Mexico. GUILLERMO E. PÉREZ, *Dept. Biol., Univ. Saskatchewan, Saskatoon, SK*, and KEITH.A. HOBSON, *Dept. Biol., Univ. Saskatchewan and Canadian Wildl. Serv., Saskatoon, SK.*
- 15:45 160 \* Aggressive behavior affects selection on morphology by determining the environment of breeding in a passerine bird. RENEE A. DUCKWORTH, *Biol. Dept., Duke Univ., Durham, NC.*
- 16:00 161 \* Historical biogeography of *Gallirallus* rails in Oceania inferred from mtDNA sequence data. JEREMY J. KIRCHMAN, *Dept. Zool., Univ. Florida, Gainesville, FL.*
- 16:15 162 The evolution of iridescent plumage color. MATTHEW D. SHAWKEY, *Dept. Biol. Sci., Auburn Univ., Auburn, AL*, MARK E. HAUBER, *Ecol., Evol. & Behav. Res. Group, School Biol. Sci., Univ. Auckland, Auckland, New Zealand* and Mus. Vert. Zool., *Dept. Integrative Biol., Univ. California, Berkeley, CA*, LAURA K. ESTEP and GEOFFREY E. HILL, *Dept. Biol. Sci., Auburn Univ.*
- 16:30 163 \* Distribution of ultraviolet sensitivity in the Passeriformes. PAUL ZWIERS, *Dept. Biol., Univ. Maryland, College Park, MD*, and *Genetics Prog., Smithsonian Inst., Washington, DC*, GERALD BORGIA, *Dept. Biol., Univ. Maryland*, and ROBERT FLEISCHER, *Genetics Prog., Smithsonian Inst., and Dept. Biol., Univ. Maryland.*
- 16:45 164 Patterns of threat and endemism in global biodiversity hotspots of avian species richness. C. DAVID L. ORME, *Div. Biol., Imperial Coll. London, Silwood Park, UK*, RICHARD G. DAVIES, *Dept. Animal & Plant Sci., Univ. Sheffield, UK*, MALCOLM BURGESS, FELIX EIGENBROD, NICOLA PICKUP, *Div. Biology, Imperial Coll. London*, VALERIE OLSON, *Zool. Soc. London, London, UK*, ANDREA J. WEBSTER, *School Biosci., Univ. Birmingham, UK*, TZUNG-SU DING, *School Forestry & Res. Conserv., National Taiwan Univ., Taiwan*, PAMELA C. RASMUSSEN, *Michigan State Univ. Mus. & Dept. Zool., East Lansing, MI*, ROBERT S. RIDGELY, *Acad. Nat. Sci, Philadelphia, PA*, ALI J. STATTERSFIELD, *BirdLife Internatl., Cambridge, UK*, PETER M. BENNETT, *Zool. Soc. London*, TIM M. BLACKBURN, *School Biosci., Univ. Birmingham*, KEVIN J. GASTON, *Dept. Animal & Plant Sci., Univ. Sheffield, UK*, and IAN P. F. OWENS, *Div. Biol., Imperial Coll. London.*
- 17:00 165 \* Molecular phylogenetics and comparative phylogeography shed light on the role of competition in the origin and maintenance of altitudinal distributions of *Buarremon* brush-finches (Emberizinae). CARLOS DANIEL CADENA, *Dept. Biol., Univ. Missouri, St. Louis, MO*, JOHN KLICKA, *Barrick Mus., Univ. Nevada, Las Vegas, NV*, and BETTE A. LOISELLE, *Dept. Biol., Univ. Missouri, St. Louis, MO.*
- 17:15 166 \* How does jaw flexion contribute to insectivorous feeding performance in hummingbirds? GREGOR M. YANEGA and MARGARET A. RUBEGA, *Dept. Ecol. & Evol. Biol, Univ. Connecticut, Storrs, CT.*

**SATURDAY, 27 August 2005**

For general paper sessions

“A” sessions held in MCC Theatre

"B" sessions held in Corwin West  
"C" sessions held in Corwin East  
"D" sessions held in Flying A Room

**Session 6A. Migration. Jessica L. Griffiths, chair.**

- 08:30 167 Comparison of species distribution and habitat use during stopover on two islands in the Gulf of Maine. REBECCA SUOMALA, KIMBERLY BABBITT, *Nat. Res. Dept., Univ. New Hampshire, Durham, NH*, and SARA MORRIS, *Biol. Dept., Canisius Coll., Buffalo, NY*.
- 08:45 168 The effect of global warming on partial migration - the Blue Tit paradox. ANNA L. K. NILSSON and ÅKE LINDSTRÖM, *Animal Ecology, Lund Univ., Sweden*.
- 09:00 169 Evaluating the effectiveness of AFLP analysis for linking breeding and wintering populations of migratory songbirds. ELENA C. BERG, JOHN P. POLLINGER and THOMAS B. SMITH, *Center for Tropical Res., Univ. California, Los Angeles, CA*.
- 09:15 170 Foraging distribution and behavior of Hawaiian albatrosses. MICHELLE ANTOLOS, SCOTT A. SHAFFER, YANN TREMBLAY, DANIEL P COSTA, PATRICK W. ROBINSON, *Ecol. & Evol. Biol., Univ. California, Santa Cruz, CA*, JILL A. AWKERMANN, and DAVID J. ANDERSON, *Dept. Biol., Wake Forest Univ., Winston-Salem, NC*.
- 09:30 171 Composition and structure of mixed-species foraging flocks in central coastal California during fall migration. JESSICA L. GRIFFITHS, NELLIE THORNGATE, *Ventana Wilderness Society, Big Sur, CA*, and JASON W. SCOTT, *Lafayette, CA*.

**Session 6B. Conservation. Jerome A. Jackson, chair.**

- 08:30 172 The effects of human and environmental stressors on White-crowned Sparrow corticosterone levels and reproductive success. MATTHEW S. DIETZ, *School Nat. Res. & Environ., Univ. Michigan, Ann Arbor, MI*.
- 08:45 173 Avian collisions with communication towers: comparing tower lighting systems, tower support systems, and tower height categories. JOELLE GEHRING, *Dept. Biol., Central Michigan Univ., Mount Pleasant, MI*, PAUL KERLINGER, *Curry & Kerlinger, Cape May Point, NJ*, and ALBERT MANVILLE, II, *U.S. Fish & Wildl. Serv., Div. Migratory Bird Manage., Arlington, VA*.
- 09:00 174 Population trends of North American sea ducks as revealed by the Christmas Bird Count. DANIEL K. NIVEN, *Audubon, Illinois Nat. Hist. Surv., Champaign, IL*, JOHN R. SAUER, *USGS Patuxent Wildl. Res. Cent., Laurel, MD*, and GREGORY S. BUTCHER, *Audubon, Washington, DC*.
- 09:15 175 New Avian Science Center takes flight at the University of Montana. RICHARD L. HUTTO, *Avian Science Center, Univ. Montana, Missoula, MT*.
- 09:30 176 Science in art: the contributions of George Miksch Sutton. JEROME A. JACKSON, *Whitaker Center, Florida Gulf Coast Univ., Ft. Myers, FL*.

**Session 6C. Breeding biology. Mary Whitfield, chair.**

- 08:30 177 Meta-analysis of the effects of experimental manipulation of condition on the expression of melanin and carotenoid-pigmented signals. TIMOTHY H. PARKER, *Div. Biol., Kansas State Univ., Manhattan, KS*, SIMON C. GRIFFITH, *School Biol., Earth & Environ. Sci., Univ. New South Wales, Sydney, Australia*, and VALÉRIE A. OLSON, *Inst. Zool., Zool. Soc. London, London, UK*.

- 08:45 178 Breeding biology of the Northern Beardless-Tyrannulet in the Lower Rio Grande Valley, Texas. SCOTT M. WERNER and SALLIE J. HEJL, *Dept. Wildl. & Fish. Sci., Texas A&M Univ., College Station, TX.*
- 09:00 179 Variation of MHC class IIB genes and mate choice in the Red-billed Gull. NICOLA L. CHONG, *Dept. Zool., Univ. Toronto, and Royal Ontario Mus., Toronto, ON*, JAMES A. MILLS, *Corning, NY*, and ALLAN J. BAKER, *Royal Ontario Mus.*
- 09:15 180 Intensity of sexual selection on islands: structural plumage coloration and sexual dichromatism in Island Scrub-Jays. KATHLEEN S. DELANEY, *Dept. Ecol. & Evol. Biol., Univ. California Los Angeles, Los Angeles, CA*, CHARLES COLLINS, *Dept. Biol., California State Univ. Long Beach, CA*, MARY JO ELPERS, *Dept. Fish & Game, Reno, NV*, GREGORY F. GREYER and ROBERT K. WAYNE, *Dept. Ecol. & Evol. Biol., Univ. California Los Angeles.*
- 09:30 181 Violet-green Swallow versus Tree Swallow breeding-site adaptations. ROBERT R. COHEN, *Dept. Biol., Metropolitan State Coll. Denver, Denver, CO*, and IRIT COHEN, *Denver, CO.*

**Session 6D. Evolution. Pamela C. Rasmussen, Chair.**

- 08:30 182 Subspecific differentiation and conservation of Least Terns inferred by microsatellite DNA. HOPE M. DRAHEIM and SUSAN M. HAIG, *USGS FRESO, Corvallis, OR.*
- 08:45 183 Sexual selection by sensory drive in manakins from the *Corapipo - Ilicura* clade: a comparative test. MARINA ANCIAES, *Nat. Hist. Mus. and Biodiv. Res. Center, Univ. Kansas, Lawrence, KS*, and RICHARD O. PRUM, *Peabody Mus. Nat. Hist., Yale University, New Haven, CT.*
- 09:00 184 The impact of scientific fraud on South Asian ornithology, and the importance of specimens for fraud detection. PAMELA C. RASMUSSEN, *Michigan State Univ. Mus. & Dept. Zool., East Lansing, MI*, and ROBERT P. PRYS-JONES, *Bird Group, Dept. Zool., Nat. Hist. Mus., Tring, UK.*
- 09:15 185 The evolution of context-dependent biparental investment strategies: collaboration or conflict? KEVIN P. OH and ALEXANDER V. BADIYAEV, *Dept. Ecol. & Evol. Biol., Univ. Arizona, Tucson, AZ.*
- 09:30 186 Unusual plumage traits and extra-pair paternity in the Red-backed Fairy-Wren (*Malurus melanocephalus*). CLAIRE W. VARIAN, MICHAEL S. WEBSTER, *School Biol. Sci., Washington State Univ., Pullman, WA*, and JORDAN KARUBIAN, *Inst. Environ., Univ. California Los Angeles, Los Angeles, CA.*

**Session 7A. Migration. Karen Steenhof, chair.**

- 10:15 187 vacant
- 10:30 188 Latitude of prebasic molt in Swainson's Warblers based on hydrogen isotope ratios in contour feathers. DOUGLAS A. JAMES, *Dept. Biol. Sciences., Univ. Arkansas, Fayetteville, AR*, and MIA R. REVELS, *Biol. Dept., Northeastern State Univ., Tahlequah, OK.*
- 10:45 189 A habitat suitability model for Buff-breasted Sandpipers during migration in an agricultural landscape. JOEL G. JORGENSEN, JOHN P. McCARTY and L. LAREESA WOLFENBARGER, *Dept. Biol., Univ Nebraska at Omaha, Omaha, NE.*

- 11:00 190 Population estimates and priority landscapes for en route shorebirds. SUSAN K. SKAGEN, *U.S. Geol. Surv., Ft. Collins, CO*, and DIANE GRANFORS, *U.S. Fish & Wildl. Serv., Fergus Falls, MN*.
- 11:15 191 Wind displacement of spring trans-Gulf migrants in relation to air speeds of migrants. SIDNEY A. GAUTHREAU, TRAVIS W. CROOK and CARROLL G. BELSER, *Dept. Biol. Sci., Clemson Univ., Clemson, SC*.
- 11:30 192 Spring stopover and fat acquisition by migrant songbirds in the Sierra de Los Tuxtlas, Veracruz, Mexico. DAVID W. SHAW and KEVIN WINKER, *Univ. Alaska Mus., Fairbanks, AK*.
- 11:45 193 Long-range movements and breeding dispersal of Prairie Falcons from southwest Idaho. KAREN STEENHOF, MARK R. FULLER, MICHAEL N. KOCHERT, *U.S. Geol. Survey, For. & Range. Ecosys. Sci. Ctr., Snake River Field Sta., Boise, ID*, and KIRK K. BATES, *Raptor Res. Ctr., Boise State Univ., Boise, ID*.
- 12:00 194 Plasma lipid metabolites and refueling performance of Semipalmated Sandpipers at migratory stopovers. JAMES E. LYONS, *USGS Patuxent Wildl. Res. Ctr., Laurel, MD*, JAIME A. COLLAZO, *USGS North Carolina Coop. Res. Unit, North Carolina State Univ., Raleigh, NC*, and CHRIS GUGLIELMO, *Dept. Biol., Univ. Western Ontario, London, ON*.
- 12:15 195 vacant

**Session 7B. Habitat relationships. Patricia L. Kennedy, chair.**

- 10:15 196 Landscape-scale habitat use by landbirds during migratory stopover near an ecological barrier. JEFFREY J. BULER, FRANK R. MOORE and ROBERT H. DIEHL, *Dept. Biol. Sci., Univ. Southern Mississippi, Hattiesburg, MS*.
- 10:30 197 Spatial and temporal variation in avifaunal response to burn severity in southwestern montane forests. NATASHA B. KOTLIAR, *USGS, Ft. Collins, CO*, PATRICIA L. KENNEDY, *Eastern Oregon Agri. Res. Ctr., Oregon State Univ., Union, OR*, and KIMBERLY FERREE, *USGS, Ft. Collins, CO*.
- 10:45 198 Effects of lakeshore development on Common loon reproductive success in the Adirondack State Park, New York. CAROLYN A. SPILMAN, WILLIAM F. PORTER, *SUNY Coll. Environ. Sci. & Forestry, Syracuse, NY*, and NINA SCHOCH, *Adirondack Coop. Loon Program, Ray Brook, NY*.
- 11:00 199 Habitat selection by Phainopeplas at multiple temporal and spatial scales: the variable influence of food resources. L. H. CRAMPTON, *Dept. Biol., Univ. Nevada Reno, Reno, NV*, and H. Y. T.LIANG, *Dept. Biol. Sci., Univ. Nevada Las Vegas, Las Vegas, NV*.
- 11:15 200 Effects of forest structural retention harvest on resource availability and habitat utilization of Brown Creepers. MARIA MAYRHOFER, DAVID A. MANUWAL, *Dept. Wildl. Sci., Univ. Washington, Seattle, WA*, and JURAJ HALAJ, *Cascadian Inc., Corvallis, OR*.
- 11:30 201 Abundance patterns of sagebrush obligate passerines in western North America. CORTNIE M KRISMAN and DAN EDGE, *Dept. Fish. & Wildl., Oregon State Univ., Corvallis, OR*.
- 11:45 202 Stable isotopes solve ornithological mystery: the winter range of the Coastal Plain Swamp Sparrow revealed! RUSSELL GREENBERG, *Smithsonian Migratory Bird Ctr, Natl. Zool. Park, Washington, DC*, PETER MARRA, *Smithsonian Environ. Res. Ctr, Edgewater, MD*, and MATTHEW WOOLLER, *Water & Alaska Stable Isotope Facility*,

*Water & Environ. Res. Ctr., Inst. Marine Sci., Univ. Alaska Fairbanks, Fairbanks, AK.*

- 12:00 203 Distribution of riparian bird species in an urbanizing landscape. AMBER S. ONEAL and JOHN T. ROTENBERRY, *Dept. Biol. and Center Conserv. Biol., Univ. California, Riverside, CA.*
- 12:15 204 Do flood-associated habitat changes affect habitat occupancy by Swainson's Warblers? THOMAS J. BENSON, JAMES C. BEDNARZ and JEREMY D. BROWN, *Dept. Biol. Sci., Arkansas State Univ., State University, AR.*

**Session 7C. Behavior. Ken Dial, chair.**

- 10:15 205 Paternity and parental care in American Robins. KAREN M. CAVEY and PATRICK J. WEATHERHEAD, *Prog. Ecol. & Evol. Biol., Univ. Illinois at Urbana-Champaign, Champaign, IL.*
- 10:30 206 Prospecting and habitat selection by Yellow-headed Blackbirds. MICHAEL P. WARD, *Illinois Nat. Hist. Surv., Champaign, IL.*
- 10:45 207 Network models for social relationships in lek-mating manakins. DAVID B. McDONALD, *Dept. Zool., Univ. Wyoming, Laramie, WY.*
- 11:00 208 Relationship between neophobia, ecological plasticity and migration in blackbird species. C. METTKE-HOFMANN and R. GREENBERG, *Smithsonian Migratory Bird Ctr, Natl. Zool. Park, Washington, DC.*
- 11:15 209 Evolution of avian flight: WAIR in Australia. KEN DIAL, *Div. Biol. Sci., Univ. Montana, Missoula, MT.*
- 11:30 210 Mating strategies of the Australian Magpie (*Gymnorhina tibicen*): inbreeding avoidance or 'good genes'? KATE L. DURRANT, *Genetics Prog., Natl. Zool. Park, Washington, DC,* and JANE M. HUGHES, *Australian School Environ. Stud., Griffith Univ., Brisbane, Queensland, Australia.*
- 11:45 211 Frequency and patterns of conspecific brood parasitism in a highly precocial duck. LETITIA M. REICHART and MICHAEL S. WEBSTER, *School Biol. Sci., Washington State Univ., Pullman, WA.*
- 12:00 212 The biomechanics of the Napoleon complex of little birds. B. E. JACKSON and K. P. DIAL, *Div. Biol. Sci., Univ. Montana, Missoula, MT.*
- 12:15 213 Singing in the shade: Northern Cardinals and American Robins sing from less exposed locations when near nesting Cooper's Hawks. PETER A. BEDNEKOFF, WILLIAM J. DUNCAN and MARK RACHAL, *Dept. Biol., Eastern Michigan Univ., Ypsilanti, MI.*

**Session 7D. Breeding biology. Michael T. Murphy, chair.**

- 10:15 214 Daily survival probabilities of fledgling Black-throated Blue Warblers. LAURA R. NAGY, *U.S. EPA, Corvallis, OR,* T. SCOTT SILLETT, *Smithsonian Migratory Bird Ctr, Natl. Zool. Park, Washington, DC,* MATTHEW DAVIS, *Environment Maine, Portland, ME,* and RICHARD T. HOLMES, *Dept. Biol. Sci., Dartmouth Coll. Hanover, NH.*
- 10:30 215 Nutrient acquisition and allocation by female Harlequin Ducks in relation to migration and reproduction. JEANINE C. BOND, DAN ESLER, *Centre Wildl. Ecol., Dept. Biol. Sci., Simon Fraser Univ., BC,* and KEITH A. HOBSON, *Canadian Wildl. Serv., Saskatoon, SK.*

- 10:45 216 Life at the edge: the reproductive ecology of Eastern Kingbirds in the Great Basin Desert. MICHAEL T. MURPHY, A. C. DOLAN, L. J. REDMOND and K. SEXTON, *Dept. Biol., Portland State Univ., Portland, OR.*
- 11:00 217 Variation in recruitment of Black Brant among brood rearing areas. CHRISTOPHER A. NICOLAI, *Prog. Ecol., Evol. & Conserv. Biol., Univ. Nevada Reno, Reno, NV,* and JAMES S. SEDINGER, *Nat. Res. & Environ. Sci., Univ. Nevada Reno, Reno, NV.*
- 11:15 218 Nest site microclimate and the cost of incubation in Orange-crowned Warblers. SUSANA I. PELUC, *Biol. Dept., Univ. California-Riverside, Riverside, CA,* T. SCOTT SILLETT, *Migratory Bird Ctr, Smithsonian Inst., DC,* and JOHN R. ROTENBERRY, *Biol. Dept., Univ. California-Riverside.*
- 11:30 219 It's gettin' hot in here: why a warming trend in the northern Bering Sea spells trouble for Least and Crested Auklets. L. M. SHEFFIELD, D. D. ROBY, A. E. GALL, I. C. ROSE, *USGS-Oregon Coop. Fish & Wildl. Res. Unit, Oregon State Univ., Corvallis, OR,* and D. B. IRONS, *U.S. Fish & Wildl. Serv. - MBM, Anchorage, AK.*
- 11:45 220 Reproductive success, philopatry, and predation of Prairie Warblers, Blue-winged Warblers, Indigo Buntings, and Field Sparrows in declining scrub successional habitat in Connecticut. CHRISTY A. MELHART and KIMBERLY G. SMITH, *Dept. Biol. Sci., Univ. Arkansas, Fayetteville, AR.*
- 12:00 221 Nests out of water: strategies for success in a flooding environment. CARINA GJERDRUM, CHRIS ELPHICK and MARGARET RUBEGA, *Ecol. & Evol. Biol., Univ. Connecticut, Storrs, CT.*
- 12:15 222 Nesting habitat of Warbling Vireos in the southern Sierra Nevada. KATHRYN L. PURCELL, *Pacific Southwest Res. Sta., Sierra Nevada Res. Center, Fresno, CA.*

**Session 8A. Systematics. Jose G. Tello, chair.**

- 13:30 223 Molecular phylogenetics of the tyrant flycatchers. JOSE G. TELLO, DANIEL J. MARCHESE, ROBERT G. MOYLE and JOEL CRACRAFT, *Dept. Ornith., Am. Mus. Nat. Hist., New York, NY.*
- 13:45 224 Song divergence and sympatry among taxa of the Spotted Bush-warbler *Bradypterus thoracicus* complex. PER ALSTRÖM, *Dept. Syst. Zool., Uppsala Univ., Uppsala, Sweden,* URBAN OLSSON, *Dept. Zool., Univ. Göteborg, Göteborg, Sweden,* PAMELA C. RASMUSSEN, *Michigan State Univ. Mus. & Dept. Zool., Michigan State Univ., East Lansing, MI,* and PER SUNDBERG, *Dept. Zool., Univ. Göteborg.*
- 14:00 225 Molecular phylogenetics and historical biogeography of the piculets (Picumninae: Picidae). BRETT W. BENZ, MARK B. ROBBINS and A. TOWNSEND PETERSON, *Nat. Hist. Mus., Univ. Kansas, Lawrence, KS.*
- 14:15 226 Molecular phylogenies and historical biogeography in four parrot genera: diversification patterns in the Neotropical region. CAMILA C. RIBAS, *Dept. Ornithol., Am. Mus. Nat. Hist., New York, NY.*
- 14:30 227 Rapid speciation and evolution of migration in North American songbirds driven by a recent postglacial expansion. BORJA MILA, JOHN E. McCORMACK, GABRIELA CASTANEDA, THOMAS B. SMITH and ROBERT K. WAYNE, *Dept. Ecol. & Evol. Biol., Univ. California, Los Angeles, CA.*
- 14:45 228 Molecular evolutionary properties of gene regions used in the Early Bird project.

REBECCA KIMBALL, *Univ. Florida, Gainesville, FL*, SHANNON HACKETT, *Field Mus., Chicago, IL*, EDWARD BRAUN, *Univ. Florida*, MICHAEL BRAUN, *Natl. Mus. Nat. Hist., Washington, DC*, JOHN HARSHMAN, *Field Mus.*, WILLIAM MOORE, *Wayne State Univ., Detroit, MI*, FRED SHELDON, *Louisiana State Univ., Baton Rouge, LA*, DAVID STEADMAN, *Univ. Florida*, RAURI BOWIE, *Field Mus.*, JENA CHOJNOWSKI, *Univ. Florida*, KIN-LAN HAN, *Natl. Mus. Nat. Hist.*, CHRIS HUDDLESTON, *Natl. Mus. Nat. Hist.*, BEN MARKS, *Louisiana State Univ.*, KATHLEEN MIGLIA, *Wayne State Univ.*, CHRIS WITT, *Louisiana State Univ.*, and TAMAKI YURI, *Natl. Mus. Nat. Hist.*

**Session 8B. Population biology. Theodore R. Simons, chair.**

- 13:30 229 Pleistocene glaciations and genetic differentiation across a migratory divide. MICHAEL WEBSTER, LESLIE DAVIS and ERIC ROALSON, *School Biol. Sci., Washington State Univ., Pullman, WA*.
- 13:45 230 Experimental analysis of detection probabilities on avian point count censuses. THEODORE R. SIMONS, *USGS Coop. Fish & Wildl. Res. Unit, Dept. Zool., North Carolina State Univ., Raleigh, NC*, KEN POLLOCK, MAT ALLDREDGE, *Dept. Statistics, Biomath. and Dept. Zool., North Carolina State Univ.*, and KRISHNA PACIFICI, *Dept. Zool., North Carolina State Univ.*
- 14:00 231 Factors affecting detection probabilities of point count surveys. MATHEW W. ALLDREDGE, KENNETH H. POLLOCK and THEODORE R. SIMONS, *Dept. Zool., North Carolina State Univ., Raleigh, NC*.
- 14:15 232 Estimating detection distance to birds detected by song. MATHEW W. ALLDREDGE, KENNETH H. POLLOCK and THEODORE R. SIMONS, *Coop. Fish & Wildl. Res. Unit, North Carolina State Univ., Raleigh, NC*.
- 14:30 233 Nest survival of the Black-headed Grosbeak in a riparian restoration context. STACY L. SMALL, *Div. Biol. Sci., Univ. Missouri-Columbia, Columbia, MO*, FRANK R. THOMPSON, III, *USDA Forest Serv., Columbia, MO*, WILLIAM DIJAK, *Dept. Forestry, Univ. Missouri-Columbia*, GEOFFREY R. GEUPEL, *Point Reyes Bird Observ. Conserv. Sci., Stinson Beach, CA*, and JOHN R. FAABORG, *Div. Biol. Sci., Univ. Missouri-Columbia*.
- 14:45 234 The value of predicting variation in distribution and abundance of birds using data-mining and machine learning techniques. D. FINK, W. HOCHACHKA, M. RIEDEWALD and S. KELLING, *Lab. Ornithol., Cornell Univ., Ithaca, NY*.

**Session 8C. Conservation. Helen F. James, chair.**

- 13:30 235 An evaluation of the contribution of cultivated allspice (*Pimenta dioca*) to avian conservation in Nicaragua. DAVID I. KING, *Northeastern Res. Sta., USDA For. Serv., Univ. Massachusetts, Amherst, MA*, MARTIN D. HERNANDEZ-MAYORGA, *Cooperativa CoopeSiuna, Siuna, Nicaragua*, RICHARD TRUBEY, RAUL RAUDALES, *Mesoamerican Develop. Inst., Lowell, MA*, and JOHN H. RAPPOLE, *Smithsonian Conserv. & Res. Ctr, Front Royal, VA*.
- 13:45 236 Horseshoe crab eggs determine Red Knot distribution in Delaware Bay habitats. SARAH M. KARPANTY and JAMES D. FRASER, *Dept. Fish. & Wildl. Sci., Virginia Tech, Blacksburg, VA*.
- 14:00 237 Abnormalities in passerine birds in northeastern Arkansas agricultural fields. JANE O. ANFINSON, JAMES C. BEDNARZ and JAIMIE CONRAD, *Dept. Biol., Arkansas State Univ., Jonesboro AR*.

- 14:15 238 Temporal and latitudinal variation in Northern Bobwhite population dynamics. TRAVIS H. FOLK, *Alabama Coop. Fish & Wildl. Res. Unit and School For. & Wildl. Sci., Auburn Univ., AL*, JAMES B. GRAND, *U.S.G.S. Alabama Coop. Fish & Wildl. Res. Unit, Auburn Univ., AL*, and RANDALL R. HOLMES, *Dept. Math., Auburn Univ.*
- 14:30 239 Using GIS and remotely sensed data to study seasonal movements of *Procnias tricarunculata*, a tropical frugivorous bird. MONICA PAPES, *Nat. Hist. Mus. and Biodiv. Res. Center, Dept. Ecol. & Evol. Biol., Univ. Kansas, Lawrence, KS.*
- 14:45 240 The paleoecology of endangered Hawaiian forest birds: Palila and Po'ouli. HELEN F. JAMES, *Bird Division, Natl. Mus. Nat. Hist., Smithsonian Inst., Washington, DC*, JONATHAN P. PRICE, *Dept. Botany, Natl. Mus. Nat. Hist.*, and STORRS L. OLSON, *Bird Division, Natl. Mus. Nat. Hist.*

**Session 8D. Ecology. Catherine P. Ortega, chair.**

- 13:30 241 Habitat selection of Neotropical migrant birds during the pre-migratory period. CARLIN C. CHANDLER, DAVID I. KING and RICHARD B. CHANDLER, *Dept. Nat. Res. Con., Univ. Massachusetts, Amherst, MA.*
- 13:45 242 Use of coastal and alternative habitats by Western Sandpiper in Ensenada de La Paz, Baja California Sur, Mexico. LORENA MORALES-GOPAR, *Depto. Pesq. y Biol. Mar., CICIMAR-IPN, La Paz, Baja California Sur, Mexico*, and ROBERTO CARMONA, *Depto. Biol. Mar., Univ. Aut. Baja California Sur, La Paz, Baja California Sur, Mexico.*
- 14:00 243 Effects of cattle grazing on nesting birds in riparian and upland pastures in southwestern Colorado. CATHERINE P. ORTEGA and JOSEPH C. ORTEGA, *Dept. Biol., Ft. Lewis Coll., Durango, CO.*
- 14:15 244 Seasonal changes in bird populations in lowland coniferous forests, western Washington. D. A. MANUWAL and N. A. PALAZZOTTO, *Coll. Forest Res., Univ. Washington, Seattle, WA.*
- 14:30 245 Density and nest survival of *Aphrastura spinicauda* (Furnariidae) in southern South American temperate rainforests: habitat fragmentation or habitat deterioration effects? CINTIA CORNELIUS, *Dept. Biol., Univ. Missouri-St. Louis, St. Louis, MO.*
- 14:45 246 Evaluating the fatty acid signature technique for study of diet composition in piscivorous birds: insights from captive feeding trials. ANNE MARY MYERS, DANIEL D. ROBY, *USGS-Oregon Coop. Fish & Wildl. Res. Unit, Dept. Fish. & Wildl., Oregon State Univ., Corvallis, OR*, and ALLEN R. PLACE, *Center Marine Biotech., Maryland Biotech. Inst., Baltimore, MD.*

**POSTER SESSIONS**

**Wednesday**

- 299 Live O.W.L. demo -- Ornithological Worldwide Literature. JAY M. SHEPPARD, *Laurel, MD*, KENNETH P. ABLE, *McArthur, CA*, and ROBIN McCLEERY, *Edward Grey Inst. Field Ornithol., Oxford, UK.*
- 300 The evolution of major histocompatibility genes is different in canaries (genus *Serinus*) from islands. ANTONIO ARNAIZ-VILLENA, JORGE ZAMORA, VALENTIN RUIZ-DEL-VALLE, JUAN MOSCOSO, JUAN IRA CACHAFEIRO and ERNESTO LOWY, *Dept. Inmunologia, Universidad Complutense, Madrid, Spain.*

- 301 Effects of song on *Zugunruhe* in female Indigo Buntings during spring migration. RACHEL T. BRU and FRANK R. MOORE, *Univ. Southern Mississippi, Hattiesburg, MS.*
- 302 Phylogeography of two closely related and expanding species: the Great-tailed and Boat-tailed grackles. WALTER WEHTJE, *California State Univ., Northridge, CA*, JEFFREY M. CACOSTA and JOHN KLICKA, *Marjorie Barrick Mus., Las Vegas, NV.*
- 303 \* A quantitative study of habitat use by sympatric Alder and Willow flycatchers in Alberta. SARAH D. HECHTENTHAL and M. ROSS LEIN, *Dept. Biol., Univ. Calgary, Calgary, AB.*
- 304 Effects of radio marking on Prairie Falcons: attachment failures provide insights about survival. KAREN STEENHOF, MARK R. FULLER, MICHAEL N. KOCHERT, *U.S. Geol. Surv., For. & Range. Ecosys. Sci. Ctr., Snake River Field Sta. Boise, ID*, KIRK K. BATES, JAMES O. MCKINLEY, *Raptor Res. Center, Boise State Univ. Boise, ID*, and PAUL M. LUKACS, *Colorado Coop. Fish & Wildl. Res. Unit, Colorado State Univ., Ft. Collins, CO.*
- 305 \*The effects of habitat fragmentation on landscape-level processes and stopover habitat associations of Nearctic-Neotropical migrating birds. JULIAN D. AVERY and G. S. KELLER, *Dept. Biol., Eastern New Mexico Univ., Portales, NM.*
- 306 New York's second breeding bird atlas. KEVIN J. MCGOWAN, *Lab. Ornithol., Cornell Univ., Ithaca, NY*, and KIMBERLEY CORWIN, *New York Dept. Environ. Conserv., Albany, NY.*
- 307 Possible double brooding in temperate-breeding orioles: breeding behavior of Baltimore and Orchard orioles. SPRING D. LIGI and KEVIN E. OMLAND, *Dept. Biol. Sci., Univ. Maryland Baltimore Co., Baltimore, MD.*
- 308 \* Influence of habitat restoration management on nesting ecology of grassland songbirds in remnant prairies of the Loess Hills, Iowa. TRACY A. WALKER, *Dept. Nat. Res. Ecol. & Manage., Iowa State Univ., Ames, IA*, and JAMES R. MILLER, *Dept. Landscape Architecture and Dept. Nat. Res. Ecol. & Manage., Iowa State Univ.*
- 309 Breeding biology of Swainson's Hawks in the Butte Valley, CA. CHRIS W. BRIGGS, MICHAEL W. COLLOPY, *Dept. Nat. Res. & Environ. Sci., Univ. Nevada, Reno, NV*, and BRIAN WOODBRIDGE, *U.S. Fish & Wildl. Serv., Yreka, CA.*
- 310 Defining species limits through color: analysis of the Orchard Oriole complex. IAN TRACY, CHRIS HOFMANN, TOM CRONIN and KEVIN OMLAND, *Biol. Sci. Dept., Univ. Maryland, Baltimore Co., Baltimore, MD.*
- 311 Behavioral plasticity in the Common Yellowthroat: response to density of conspecifics and internal state during migration. MEGAN E. HUGHES and FRANK R. MOORE, *Dept. Biol. Sci., Univ. Southern Mississippi, Hattiesburg, MS.*
- 312 Comparative spring migration timetables between white and tan morphs of the White-throated Sparrow. SARAH S. A. CALDWELL and ALEXANDER M. MILLS, *Dept. Zool., Univ. Toronto, Toronto, ON.*
- 313 \* Linking migration and winter ecology in a long-distance migratory songbird using stable-carbon isotope analysis. AARON T. BOONE and PAUL G. RODEWALD, *School Nat. Res., Ohio State Univ., Columbus, OH.*
- 314 Modeling the influence of forest structure and composition on avian communities in northern Arizona Ponderosa Pine forests. JOHN W. PRATHER, THOMAS D. SISK, YAGUANG XU, HAYDEE M. HAMPTON, *Center Environ. Sci. & Edu., N. Arizona Univ., Flagstaff, AZ*, STEVEN S. ROSENSTOCK, *Arizona Game & Fish Dept., Flagstaff, AZ*, BRETT G. DICKSON, *Colorado State*

- Univ., Ft. Collins, CO, KERRY GRIFFIS-KYLE, Syracuse Univ., Syracuse, NY, WILLIAM M. BLOCK, USDA Forest Service Rocky Mtn. Res. Stat., Flagstaff, AZ, and CAROL L. CHAMBERS, Dept. Forestry, N. Arizona Univ.*
- 315 Selective logging and bird conservation in the Cordillera de Colan, northern Peru. NICO S. DAUPHINE, ANIKA C. MAHONEY, ROBERT J. COOPER, *Warnell School For. Res., Univ. Georgia, Athens, GA*, and DANIEL M. BROOKS, *Houston Mus. Nat. Sci., Houston, TX*.
- 316 A phylogenetic perspective on the evolution of chromatic ultraviolet plumage coloration in the grackles and allies (Family: Icteridae). MUIR D. EATON, *Nat. Hist. Mus., Univ. Kansas, Lawrence, KS*.
- 317 Water quality and foraging behavior in wintering Common Loons. STEPHANIE A. THOMPSON and J. JORDAN PRICE, *Dept. Biol., St. Mary's College of Maryland, St. Mary's City, MD*.
- 318 Habitat use by Brown-headed Cowbirds: insights into egg-laying and foraging areas using stable isotope analysis. KARL L. KOSCIUCH, ROXANE FAGAN, BRETT K. SANDERCOCK and DAVID A. RINTOUL, *Div. Biol., Kansas State Univ., Manhattan, KS*.
- 319 An Eastern Kingbird's guide to reproductive success. AMY C. DOLAN, LUKE REDMOND, KAREN SEXTON, DEBBIE DUFFIELD and MICHAEL MURPHY, *Dept. Biol, Portland State Univ., Portland, OR*.
- 320 Nest success and breeding biology of the Cerulean Warbler in Michigan. CHRISTOPHER M. ROGERS and THOMAS R. SHELITE, *Dept. Biol. Sci., Wichita State Univ., Wichita, KS*.
- 321 \* Initial avian community response to oak woodland restoration in the Ozark National Forest, Arkansas. NICHOLAS J. C. BROWN and CHRISTOPHER J. KELLNER, *Dept. Biol., Arkansas Tech Univ., Russellville, AR*.
- 322 \* Effects of partial harvesting on the demography and habitat selection of primary cavity nesting birds in the Carolinian zone of southwestern Ontario. KATA BAVRLIC, *Dept. Biol., Trent Univ., Peterborough, ON*, DAWN BURKE, *Ontario Ministry Nat. Res., London, ON*, ERICA NOL, *Dept. Biol., Trent Univ.*, and KEN ELLIOTT, *Ontario Ministry Nat. Res.*
- 323 Nest characteristics and breeding success in tidal marsh Song Sparrows. PARVANEH ABBASPOUR, APRIL ROBINSON, NADAV NUR, MARK HERZOG and LEONARD LIU, *Point Reyes Bird Observ., Stinson Beach, CA*.
- 324 \* Effects of experimental testosterone-implants on behavior, territory position, and mating success of male Greater Prairie-Chickens. JACQUELINE K. NOOKER and BRETT K. SANDERCOCK, *Div. Biol., Kansas State Univ., Manhattan, KS*.
- 325 \* Nests without eggs: abandonment or cryptic predation? J. DYLAN MADDIX and PATRICK J. WEATHERHEAD, *Prog. Ecol. & Evol. Biol., Univ. Illinois, Champaign, IL*.
- 326 Behavior and chip note vocalizations of female Hooded Warblers during nest defense. L. C. MARSHALL-ROSENBERGER and K. G. SMITH, *Dept. Biol., Univ. Arkansas, Fayetteville, AR*.
- 327 \*Extra-pair mate choice and immune response in Common Yellowthroats. J. C. GARVIN, P. O. DUNN and L. A. WHITTINGHAM, *Dept. Biol. Sci., Univ. Wisconsin-Milwaukee, Milwaukee, WI*.
- 328 Inconsistent responses of Common Grackles to Cowbird parasitism: evidence of the decline of grackle anti-parasite behavior. BRIAN D. PEER, *Dept. Biol., Western Illinois Univ., Macomb, IL*, and STEPHEN I. ROTHSTEIN, *Dept. Ecol., Evol. & Marine Biol., Univ. California, Santa Barbara, CA*.

- 329 Song tempo variation between males in the Black-Throated Blue Warbler. GABRIEL J. COLBECK, MICHAEL S. WEBSTER, *School Biol. Sci., Washington State Univ., Pullman, WA*, and T. SCOTT SILLETT, *Smithsonian Migratory Bird Ctr, Natl. Zool. Park, Washington, DC*.
- 330 \* Vocal performance and responses to different song types in Red-Winged Blackbirds. E. REBECCA. A. CRAMER and J. JORDAN PRICE, *Dept. Biol., St. Mary's College of Maryland, St. Mary's City, MD*.
- 331 Song characteristics and variation of "Audubon's Warbler" from two locations within Alberta. S. F. LOVELL, *Dept. Biol Sci, Univ Calgary, Calgary, AB*.
- 332 Phylogeny of the Golden fronted and Red-bellied woodpecker species group (Picidae) using mtDNA sequences. ERICK A. GARCÍA-TREJO, ADOLFO G. NAVARRO, *Museo de Zoología, Facultad de Ciencias, Univ. Nacional Autónoma de México, Mexico City, Mexico*, and ALEJANDRO ESPINOSA DE LOS MONTEROS, *Instituto de Ecología A. C., Xalapa, Veracruz*.
- 333 Phylogenetic relationships among populations of Eastern Towhee: investigating the white-eyed Florida subspecies. JEREMY S. BATTEN and JOHN KLIICKA, *Marjorie Barrick Mus., Univ. Nevada, Las Vegas, NV*.
- 334 Molecular phylogeny and historical biogeography in *Brotogeris* parakeets. CAMILA C. RIBAS, *Dept. Ornithol., Am. Mus. Nat. Hist., New York, NY*.
- 335 \* Isotopic differences in foraging habitat identified by  $\delta^{15}\text{N}$  and  $\delta^{13}\text{C}$  values in Waved Albatrosses. JILL A. AWKERMANN, *Dept. Biol., Wake Forest Univ., Winston-Salem, NC*, KEITH A. HOBSON, *Canadian Wildl. Serv., Saskatoon, SK*, and DAVID J. ANDERSON, *Dept. Biol., Wake Forest Univ.*
- 336 Phylogenetic relationships within the Galliformes inferred from sequences of 14 nuclear loci. REBECCA T. KIMBALL, BENJAMIN BURKLEY, EDWARD L. BRAUN and W. ANDREW COX, *Dept. Zool., Univ. Florida, Gainesville, FL*.
- 337 Methodologies for releasing federally endangered San Clemente Loggerhead Shrikes on San Clemente Island. LEAH H. WEBB, ERIC L. KERSHNER and SHANE R. HEATH, *Inst. Wildl. Studies, San Diego, CA*.
- 338 In the Thicket of Things: re-creating riparian habitat in a desert in British Columbia. CHRISTINE A. BISHOP, *Canadian Wildl. Serv., Delta, BC*, D. JASON EMERY, *Solitude Environmental Services, Vancouver, BC*, and KEN JOHNSON, *Ducks Unlimited Canada*.
- 339 Evaluation of distance sampling as a technique to determine the abundance of the Black-capped Vireo on Fort Hood, Texas. DAVID A. CIMPRICH and KERI N. NORMAN, *The Nature Conservancy, Ft. Hood, TX*.
- 340 Population trends of shrubland and woodland birds in central Texas: local versus regional patterns. R. M. KOSTECKE, *The Nature Conservancy, Ft. Hood, TX*.
- 341 \* The effect of Brown-headed Cowbird removal on the demography of the Dickcissel. ERIN L. HEWETT, *Dept. Ecol. & Evol. Biol., Cornell Univ., Ithaca, NY*, KARL L. KOSCIUCH and BRETT K. SANDERCOCK, *Div. Biol., Kansas State Univ., Manhattan, KS*.
- 342 \* Nest vigilance by male Carolina Wrens during incubation. GUADALUPE QUIROZ and DIANE L. NEUDORF, *Dept. Biol. Sci., Sam Houston State Univ., Huntsville, TX*.
- 343 Seed dispersal by the invasive Kalij Pheasant: implications for Hawaiian forests. KATHERINE A. POSTELLI, *USGS/PIERC and Natl. Park Serv., Hawaii Natl. Park, HI, and Botany Dept., Univ. Hawaii, Honolulu, HI*, DONALD R DRAKE, *Botany Dept., Univ. Hawaii*, and THANE K PRATT,

USGS/PIERC, Hawaii Natl. Park.

- 344 Factors influencing vigilance while feeding in reintroduced California Condors. CHRISTOPHER J WEST, *Dept. Wildl., Humboldt State Univ., Arcata, CA.*
- 345 Taxonomy of the Green-fronted Hummingbird (*Amazilia viridifrons*) complex using mtDNA. GABRIELA M. GARCÍA-DERAS, BLANCA E. HERNÁNDEZ-BAÑOS and ADOLFO G. NAVARRO, *Museo de Zoología, Fac.de Ciencias, Univ. Nacional Autónoma de México, Mexico City, Mexico.*
- 346 Extra-pair mating tactics in female Northern Cardinals: a test of the 'constrained female hypothesis.' SHEENA K. HUMBIRD and DIANE L. H. NEUDORF, *Dept. Biol. Sci., Sam Houston State Univ., Huntsville, TX.*
- 347 Abundance and reproductive success of Blue-winged Warblers in forest openings of different sizes. ROBERT A. ASKINS, *Dept. Biol., Connecticut Coll., New London, CT,* and BENJAMIN ZUCKERBERG, *Coll. Environ. Sci. & For., State Univ. New York, Syracuse, NY.*
- 348 Waiting for trees to grow: nest survival, brood parasitism, and the impact of reforestation efforts. KIRSTEN R. HAZLER, *Warnell School For. Res., Univ. Georgia, Athens, GA,* DANIEL J. TWEDT, *Patuxent Wildl. Res. Ctr., Vicksburg, MS,* and ROBERT J. COOPER, *Warnell School For. Res., Univ. Georgia.*
- 349 Waves and Western Grebe nest survival: an experimental approach. JOSEPH H. ALLEN, GARY L. NUECHTERLEIN and DEBORAH BUITRON, *Dept. Biol. Sci., North Dakota State Univ., Fargo, ND.*
- 350 Bird responses to fire and fire-surrogate treatments in longleaf pine forests. W. DOUGLAS ROBINSON, *Dept. Fish. & Wildl., Oregon State Univ., Corvallis, OR,* and GHISLAIN R. ROMPRE, *Univ. Laval, Québec, QC.*
- 351 Trends of wintering landbirds in central coastal California and correlations with weather patterns. DIANA L. HUMBLE, MICHAEL C. ROGNER, GRANT BALLARD, THOMAS GARDALI and GEOFFREY R. GEUPEL, *Point Reyes Bird Observ. Conserv. Sci., Stinson Beach, CA.*
- 352 The endemic and endangered *Chauna chavaria* L. and the Anhimidae family are a flag species of the Important Bird Areas in South America. JUAN MANUEL PRADA, *Universidad Nacional de Colombia, Bogotá, Colombia.*
- 353 Population structure of a metapopulation of Pinyon Jays. CHRISTIAN NUNES, RUSSELL BENFORD, STEPHEN M. SHUSTER, PAUL KEIM and RUSSELL P. BALDA, *Avian Cognition Lab., Dept. Biol. Sci., Northern Arizona Univ., Flagstaff, AZ.*
- 354 Host use by individual cowbirds in a diverse avian community. BILL M. STRAUSBERGER, *Pritzker Lab. Mol. Biol., Zool. Dept., Field Mus. Chicago, IL.*
- 355 Breeding habitat selection of Eastern Kingbirds in southeastern Oregon. LUKE REDMOND, AMY C. DOLAN and MICHAEL T. MURPHY, *Dept. Biol., Portland State Univ., Portland, OR.*
- 356 Louisiana Waterthrush ecology and riparian conservation in the Georgia Piedmont. BRADY J. MATTSSON and ROBERT J. COOPER, *Warnell School For. Res., Univ. Georgia, Athens, GA.*
- 357 Transgenerational priming of immunity: maternal exposure to a bacterial antigen enhances offspring humoral immunity. JENNIFER L. GRINDSTAFF, DENNIS HASSELQUIST, JAN-ÅKE NILSSON, MARIA SANDELL and MARTIN STJERNMAN, *Dept. Animal Ecol., Lund Univ., Lund, Sweden.*

- 358 Who leads the flock? The participation of women in the AOU, COS and WOS. KIMBERLY A. SULLIVAN, *Dept. Biol., Utah State Univ., Logan, UT.*
- 359 Avian haematozoa in South America: a comparison of temperate and tropical zones. KATE L. DURRANT, JON S. BEADELL, FARAH ISHTIAQ, EBEN GERING, ROBERT C. FLEISCHER, *Genetics Prog., Natl. Zool. Park, Washington, DC*, GARY R. GRAVES, STORRS L. OLSON, CHRISTOPHER M. MILENSKY, BRIAN K. SCHMIDT, CHRISTINA GEBHARD, *Dept. Vert. Zoo., Natl. Mus. Nat. Hist., Washington, DC*, and MIKE A. PIERCE, *MP Internat. Consultancy, Bexhill-on-Sea, E. Sussex, UK.*
- 360 At what stage do cowbird populations become male-biased? K. ELLISON, *Dept. Wildl. Ecol., Univ. Wisconsin, Madison, WI*, and S. G. SUMMERS, *The Nature Conservancy, Ft. Hood, TX.*
- 361 Habitat characteristics of American Avocet and Black-necked Stilt nurseries. JENNIFER CARY, *Dept. Biol., Austin Coll., Sherman, TX*, and JOHN F. CAVITT, *Dept. Zool., Weber State Univ., Ogden, UT.*
- 362 \* Seasonal diet shifts in a migratory population of Yellow-rumped Warblers: insights from stable isotope analysis. CHANTAL M. GAGNON, *Dept. Biol., Univ. Saskatchewan, Saskatoon, SK*, and KEITH A. HOBSON, *Canadian Wild. Serv., Saskatoon, SK.*

#### Friday

- 299 (repeated) Live O.W.L. demo -- Ornithological Worldwide Literature. JAY M. SHEPPARD, *Laurel, MD*, KENNETH P. ABLE, *McArthur, CA*, and ROBIN McCLEERY, *Edward Grey Inst. Field Ornithol., Oxford, UK.*
- 363 What are the origins and functions of domed nests in Saltmarsh Sharp-tailed Sparrows? SELENA HUMPHREYS, CHRIS S. ELPHICK, CARINA GJERDRUM and MARGARET A. RUBEGA, *Dept. Ecol. & Evol. Biol., Univ. Connecticut, Storrs, CT.*
- 364 Radionuclide levels in birds from the western Aleutians. J. BURGER and M. GOCHFELD, *Consortium for Risk Evaluation with Stakeholder Participation, Piscataway, NJ.*
- 365 California Clapper Rail population trends in the San Francisco Bay Estuary. LEONARD LIU, *Point Reyes Bird Observ. Conserv. Sci., Stinson Beach, CA*, and JULES EVENS, *Avocet Res. Assoc., Pt. Reyes Station, CA.*
- 366 Picking up chicks: movement and extra-pair paternity of American Redstarts in an agricultural landscape. JAMES L. CHURCHILL and SUSAN J. HANNON, *Dept. Biol. Sci., Univ. Alberta, Edmonton, AB.*
- 367 Latitudinal variation in incubation attentiveness and an experimental test of the food limitation hypothesis. ANNA D. CHALFOUN and THOMAS E. MARTIN, *Montana Coop. Wildl. Res. Unit, Univ. Montana, Missoula, MT.*
- 368 Determining natal origins of raptors migrating through the Florida Keys: a stable isotope approach. SARA E RESS, *Dept. Biol. Sci., Univ. Arkansas, Fayetteville, AR*, CASEY A LOTT, *Hawkwatch Internatl.*, and KIMBERLY G SMITH, *Dept. Biol. Sci., Univ. Arkansas.*
- 369 Stage-dependent phenotypic plasticity within the migratory period: Blackpolls "know" when fat matters. REBECCA L. HOLBERTON, *Lab. Avian Endocrinology, Dept. Biol. Sci., Univ. Maine, Orono, ME*, and JAMES BAIRD, *Petersham, MA.*
- 370 Flight patterns of nocturnal fall migrants in relation to topographic features along the Allegheny Front, West Virginia: results of studies using a mobile radar system. JONATHAN H. PLISSNER,

- TODD J. MABEE and BRIAN A. COOPER, *ABR, Inc., Forest Grove, OR.*
- 371 Phylogeography of Ruffed Grouse across North America. BARTEK JABLONSKI, PATRICIA BRITO, GEORGE BARROWCLOUGH, JEFF GROTH, *Am. Mus. Nat. Hist., New York, NY*, R. GUTIERREZ and ROBERT ZINK, *Univ. Minnesota, St. Paul, MN.*
- 372 Upland bird communities on a large Pacific island (Santo, Vanuatu). ANDREW W. KRATTER, DAVID W. STEADMAN and JEREMY J. KIRCHMAN, *Florida Mus. Nat. Hist., Univ. Florida, Gainesville, FL.*
- 373 Effects of various forestry practices on bird communities in the Arkansas Ozarks: a 12-year study. KIMBERLY G. SMITH, MICHAEL MLODINOW, *Dept. Biol. Sci., Univ. Arkansas, Fayetteville, AR*, and JAN SELF, *USDA For. Serv., Jasper, AR.*
- 374 Avifaunal survey of a National Guard training site within the Post Oak Savannah ecoregion of Texas. DIANE L. H. NEUDORF, *Dept. Biol. Sci., Sam Houston State Univ., Huntsville, TX.*
- 375 Migrating birds as dispersal vehicles of West Nile Virus. JENNIFER C. OWEN, FRANK R. MOORE, *Dept. Biol. Sci., Univ. Southern Mississippi, Hattiesburg, MS*, NICHOLAS PANELLA, ERIC EDWARDS, *Div. Vector-Borne Infect. Diseases, Centers Disease Control & Prevention, Ft. Collins, CO*, RACHEL BRU, MEGAN E. HUGHES, *Dept. Biol. Sci., Univ. Southern Mississippi*, and NICHOLAS KOMAR, *Div. Vector-Borne Infect. Diseases.*
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- 381 Eared Grebe use of the Guerrero Negro Saltworks, Baja California Sur, Mexico (2004 - 2005). ANDREA CUÉLLAR BRITO, *Dept. Pesq. y Biol. Mar., CICIMAR-IPN, La Paz Baja California Sur, Mexico*, and ROBERTO CARMONA, *Dept. Biol. Mar., Univ. Auto. de Baja California Sur, Mexico.*
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