

Education and Training Program

Saturday, October 15

WORKSHOPS

- Session 1:** **An Introduction to Spatial Capture-Recapture**
Organizers: J. Andrew Royle, USGS Patuxent Wildlife Research Center, Laurel, MD; Chris Sutherland, Department of Environmental Conservation, UMASS-Amherst, Amherst, MA; Richard B. Chandler, Warnell School of Forestry and Natural Resources, University of Georgia
Supported by: Biometric Working Group
Location/Time: 302A/ 8:00 AM - 5:00 PM
- Session 2:** **Animal Trapping Techniques for Researchers and Managers**
Organizers: Pat Jackson, Nevada Department of Wildlife, Reno, NV; Bryant White, Association of Fish and Wildlife Agencies, Columbia, MO
Location/Time: 306A and Off-Site/ 8:00 AM - 5:00 PM
- Session 3:** **Data Management Fundamentals for Long-Term Wildlife Studies**
Organizers: Robert Sutter, Enduring Conservation Outcomes, Savannah, GA; David Rugg, US Forest Service, Madison, WI; Craig Palmer, CSRA, Alexandria, VA
Supported by: US Forest Service
Location/Time: 305A/ 8:00 AM - 5:00 PM
- Session 5:** **Essentials of Managing Conflict in Environmental Disputes**
Organizers: Maggi Sliwinski, University of Nebraska-Lincoln, Lincoln, NE; Mary Lou Addor, Natural Resources Leadership Institute, Raleigh, NC
Supported by: Early Career Professional Working Group, Human Dimensions Working Group
Location/Time: 303/ 8:00 AM - 5:00 PM
- Session 6:** **Forestry 101 for Wildlife Biologists and Managers**
Organizers: Andrew Crosby, Michigan State University, East Lansing, MI; Blake Murden, Port Blakely Companies, Tumwater, WA; Fill Witt, University of Michigan-Flint, Flint, MI
Supported by: TWS Forestry and Wildlife Working Group
Location/Time: 301B and Off-Site/ 8:00 AM - 5:00 PM
- Session 7:** **Foundations of Survey Sampling**
Organizers: Steve Sheriff, SLS Ventures, Columbia, MO
Supported by: Human Dimensions Working Group
Location/Time: 302B/ 8:00 AM - 5:00 PM
- Session 8:** **Intermediate R Workshop**
Organizers: Robin Russell USGS National Wildlife Health Center, Madison, WI; Dan Walsh USGS, National Wildlife Health Center, Madison, WI; Kezia Manlove, Dept. of Biology, Penn State University, State College, PA; J. Joshua Nowak, Wildlife Biology, University of Montana, Missoula, MT; Beth Ross, South Carolina Cooperative Fish and Wildlife Research Unit, Clemson, SC
Supported by: Biometrics Working Group
Location/Time: 304/ 8:00 AM - 5:00 PM

**Advanced registration required for all Workshops*

Saturday, October 15

Session 9: Quantitative Analysis of Satellite-Derived Data for Animal Ecology and Conservation

Organizers: Guillaume Bastille-Rousseau, State University of New York - College of Environmental Sciences and Forestry, Syracuse, NY

Supported by: SUNY-ESF Roosevelt Wild Life Station

Location/Time: 302C/ 8:00 AM - 5:00 PM

Session 10: Sustaining Green Infrastructure in the City of Oaks

Organizers: Chris Moorman, North Carolina State University, Raleigh, NC; George Hess, North Carolina State University, Raleigh, NC; Nils Peterson, North Carolina State University, Raleigh, NC

Supported by: Urban Wildlife Working Group

Location/Time: Off-Site/ 8:00 AM - 5:00 PM

Session 11: Wild Pig Management and Research Techniques

Organizers: David Keiter, University of Georgia, Savannah River Ecology Laboratory, Aiken, SC; Michael Cherry, University of Georgia, Jones Ecological Research Center, Newton, GA; James Beasley, University of Georgia, Savannah River Ecology Laboratory, Aiken, SC; Michael Conner, University of Georgia, Jones Ecological Research Center, Newton, GA

Supported by: TWS Wildlife Damage Management Working Group; the Berryman Institute

Location/Time: Off-Site/ 8:00 AM - 5:00 PM

**Advanced registration required for all Workshops*

Sunday, October 16

PLENARY

Session 13: Partnerships Across the Spectrum of Wildlife Governance

Location/Time: Ballroom A/ 8:45 AM
 Shane Patrick Mahoney, John Beck
See page 31 for details

Aldo Leopold Keynote Address

Time: 10:15 AM
On the Evolution of the Wildlife Profession: The Times They Are A-Changin'
 James D. Nichols

CONTRIBUTED PAPERS

Session 14: Conservation and Ecology of Birds I

- Location: 301A
 Moderator: David Buehler, University of Tennessee, Knoxville, TN
- 1:10 PM **Experience Does Not Enhance Avian Avoidance of Vehicles**
 Travis L Devault; Thomas W Seamans; Bradley F Blackwell; Steven L Lima; Melinda A Martinez; Esteban Fernandez-Juricic
- 1:30 PM **Factors Influencing Nest Survival of White-Tipped Doves in the Lower Rio Grande Valley, Texas**
 Jordan C Giese; Heather A Mathewson; Thomas W Schwertner; Jeff B Breeden
- 1:50 PM **Strategies of Autonomous Surveying of Rails in Estuarine Marsh Habitats**
 Lydia Stiffler; James Anderson; Sergio Harding; Jeff Cooper; Gary Costanzo; Todd Katzner
- 2:10 PM **Parental Behavior and Attendance Patterns of Nesting White-Tipped Doves in the Lower Rio Grande Valley of Texas**
 Jared D Hall; Jordan Giese; Heather Mathewson; Jeff Breeden; Thomas Schwertner
- 2:30 PM **Patterns and Drivers of Spatial Variation in Mourning Dove Recruitment Across the United States**
 David J Muñoz; David AW Miller
- 2:50 PM Break
- 3:20 PM **Hierarchical Partitioning of Bird Species Diversity Reveals Variation in Patterns Occurring Across Scales**
 Andrew D Crosby; William F Porter
- 3:40 PM **Comparing Basal Area and Stand Density Index for Red-Cockaded Woodpecker Habitat Management**
 Carl Schmidt; Dawn Sherry
- 4:00 PM **Winter Habitat Use of New Zealand Falcons in a Pine Plantation: Impacts of 1080 and Timber Harvesting**
 Chifuyu Horikoshi; Phil F Battley; Ed O Minot

Session 15: Conservation and Ecology of Mammals I

- Location: 301B
 Moderator: Christopher Lituma, University of Tennessee, Knoxville, TN
- 1:10 PM **Ecology of Native Mice in Midwestern Row-Crop Agriculture and Implications for Ecosystem Services**
 Jacob L Berl; Sarah A Abercrombie; Hunter A Johnstone; Elizabeth A Flaherty; Robert K Swihart
- 1:30 PM **Genetic Differences in the Response to Landscape Fragmentation by a Habitat Generalist, the Bobcat, and a Habitat Specialist, the Ocelot**
 Jan E Janecka; Michael E Tewes; Imogene A Davis; Aeon M Haines; Arturo Caso; Terry L Blankenship; Rodney L Honeycutt
- 1:50 PM **Delineating Biological Deer Management Units in North Carolina**
 Jonathan C Shaw; Vincent E Stanford; Ryan T Myers; Brad W Howard; David T Sawyer; David T Cobb

Sunday, October 16

- 2:10 PM **Bottom of the Ninth Life: Reevaluating Population Dynamics of West Virginia Bobcats Using Age-At-Harvest Data**
Stephanie M Landry; Richard E Rogers; Amy B Welsh; Chris W Ryan; James T Anderson
- 2:30 PM **Testing the Efficacy of an Acoustic Lure on Bat Mist Netting Success in North America**
Hannah Hayes; Laura D'Acunto; Elizabeth Flaherty; Patrick Zollner
- 2:50 PM Break
- 3:20 PM **Immigration as a Compensatory Mechanism to Offset Harvest Mortality in Heavily Harvested Wolf Populations**
Sarah B Bassing; David E Ausband; Michael S Mitchell; Michael K Schwartz; Lisette P Waits
- 3:40 PM **Exploring the Gut Microbiome in Neotropical Jaguars and Pumas: The Next Big Thing Is Really Small**
Claudia Wulsch; Lisette P Waits; Marcella J Kelly; George Amato; Howard Quigley; Konstantinos Krampis
- 4:00 PM **Demographic Performance of Small Mammals in Response to Patch-Burn Grazing**
Andrew M Ricketts; Brett K Sandercock
- 4:20 PM **Community-Based Research and Conservation of the Endangered Fishing Cat in Coastal South India's Last Remaining Mangroves**
Ashwin Naidu; Appa Rao Allaparthi; Pradeep K Narsupalli; Santosh P Chowdary; Kyle W Thompson
- 4:40 PM **Ames Plantation's Quality Deer Management Program Produces Mature Bucks, a Healthy Deer Herd, and Increased Hunter Success and Opportunity**
Wade Gefellers

Session 16: New Technology and Applications

Location: 302A

Moderator: David Cobb, NC Wildlife Resources Commission, Raleigh, NC

- 1:10 PM **Landscape Genomics as a Tool for Conservation Planning: The Case of an Endemic, Montane Salamander Threatened by Climate Change**
Brenna R Forester; Dean L Urban; Thomas F Schultz; Jennifer J Wernegreen; Rob R Dunn
- 1:30 PM **Estimators of Home Range Using GPS Datasets: A New Vision**
W David Walter; Dave P Onorato; Justin W Fischer
- 1:50 PM **Evaluating Behavioral Responses of Lesser Snow Geese to Unmanned Aircraft Surveys**
Andrew Barnas; Robert Newman; Christopher Felege; Michael Corcoran; Samuel Hervey; Robert Rockwell; Susan Ellis-Felege
- 2:10 PM **Comparison of Survey Techniques on Detection of Northern Flying Squirrels: Live Traps, Camera Traps, and Ultrasonic Acoustics**
Corinne A Diggins; L Michelle Gilley; Christine A Kelly; W Mark Ford
- 2:30 PM **Efficacy of Artificial Shelter Arrays as a Monitoring Tool for Hellbender Salamanders**
Cathy M Bodinof Jachowski; William A Hopkins
- 2:50 PM Break
- 3:20 PM **Developing a Suitable Radio Collar for Wild Horses and Burros**
Kate A Schoenecker; Sarah Rb King; Paul C Griffin; Gail H Collins
- 3:40 PM **An Aerial Strip-Transect Survey to Assess Autumn Waterfowl Distribution and Abundance in Missouri**
Brian Hidden; Lisa Webb; Andy Raedeke; Xiaoming Gao
- 4:00 PM **The Next Generation of Non-Invasive Hair Snare Surveys**
Thomas F Rounsville Jr; Rich E Rogers; Amy B Welsh; Christopher W Ryan; James T Anderson
- 4:20 PM **Evaluating Bat Fat and Other Body Condition Metrics to Understand Interspecific Impacts of White-Nose Syndrome**
Mary Beth Manjerovic; Michelle L Green; Anna Dilger; Rachel M Santymire; Jean Mengelkoch; Joyce E Hoffman; Jan E Novakofski; Nohra E Mateus-Pinilla
- 4:40 PM **Mapping Gopher Tortoise Habitat in Georgia Using Multi-Season Landsat Imagery and Multiple Statistical Modeling Techniques**
Jeffrey Hepinstall-Cymerman; Rachel Bormann; Bryan Nuse; Clinton Moore; Matt Elliott

Sunday, October 16**Session 17: Upland Gamebird Ecology and Conservation**

Location: 302B

Moderator: Craig Harper, University of Tennessee, Knoxville, TN

- 1:10 PM **Influence of Biotic and Abiotic Factors on Detectability of Northern Bobwhites during Distance-Sampling Based Helicopter Surveys**
John T Edwards; Andrea Bruno; Fidel Hernández; Leonard A Brennan; Fred C Bryant; Tyler A Campbell; Michael L Morrison
- 1:30 PM **Effect of Meso-Mammal Nest Predator Activity on Northern Bobwhite Nest Success**
Alexander L Jackson; William E Palmer; D Clay Sisson; Theron M Terhune II; James A Martin
- 1:50 PM **Broad-Scale Effects of the Conservation Reserve Enhancement Program on Northern Bobwhite Populations in Agricultural Landscapes**
John M Yeiser; John J Morgan; Danna L Baxley; Richard B Chandler; James A Martin
- 2:10 PM **Substrate versus Operative Temperature in Modeling Bobwhite Thermal Resource Selection**
Benjamin R Olsen; Timothy E Fulbright; Fidel Hernández; Eric D Grahmann; David B Wester; Monika L Burchette; Michael W Hehman
- 2:30 PM **Effects of Habitat Restoration and Climate Change on Scaled Quail in South-Central New Mexico**
Krysten Marie Zummo; Scott Carleton
- 2:50 PM Break
- 3:20 PM **The Effects of a Wind Energy Development on a Greater Sage Grouse Population**
Chad Lebeau; Gregory Johnson; Matthew Holloran; Jeffrey Beck; Ryan Nielson; Mandy Kauffman; Eli Rodemaker; Trent McDonlad
- 3:40 PM **Assessing Potential Synergies between Drought and Grazing on Lesser Prairie-Chicken Demographics**
Sarah Fritts; Blake A Grisham; Robert D Cox; Clint W Boal; David A Haukos; Patricia McDaniel
- 4:00 PM **Reproductive Costs for Female Greater Sage-Grouse in Northern Nevada and Southern Oregon**
Tessa L Behnke; Phillip A Street; Levi A Jaster; James S Sedinger
- 4:20 PM **Response of Sage-Grouse Nest-Site Selection and Survival to Landscape-Scale Conifer Removal in the Northern Great Basin**
John P Severson; Christian A Hagen; Jeremy D Maestas; David E Naugle; Todd Forbes; Kerry P Reese
- 4:40 PM **Lesser Prairie-Chicken Foraging in Native and CRP Grasslands of Kansas and Colorado**
Daniel S Sullins; David A Haukos

Session 18: Wildlife Diseases in Ruminants

Location: 302C

Moderator: Colter Chitwood, University of Missouri, Columbia, MO

- 1:10 PM **Development of Strategies to Orally Deliver Vaccine for Bovine Tuberculosis to White-Tailed Deer of Northeastern Lower Michigan**
David Dressel; Henry Campa III; Michael Lavelle; Kurt Vercauteren
- 1:30 PM **Fine-Scale Dispersal of White-Tailed Deer: Implications for Chronic Wasting Disease**
Darren M Wood; Amy B Welsh
- 1:50 PM **Landscape Barriers Influence Genetic Connectivity among White-Tailed Deer in an Area Affected by Chronic Wasting Disease**
William L Miller; Duane Diefenbach; Cassandra Miller-Butterworth; Justin Brown; W David Walter
- 2:10 PM **Chronic Wasting Disease: Infection and Mortality in Mid-Western White-Tailed Deer**
Michael Samuel; Daniel Storm
- 2:30 PM **You Can't Bring That Here! How Interstate Collaboration Can Reduce the Risk of CWD Introduction**
Merril Cook; Maria Palamar
- 2:50 PM Break
- 3:20 PM **Genetic Characterization of the Meningeal Worm, *Parelaphostrongylus tenuis*, from Multiple Host Species and Across Spatial Scales**
Richard Gerhold

Sunday, October 16

- 3:40 PM **Cause Specific Mortality during an Outbreak of Epizootic Hemorrhagic Disease; a Case for Compensatory Mortality?**
Jacob M Haus; Jacob L Bowman; Joseph E Rogerson
- 4:00 PM **Genetic Linkages among Pneumonia Outbreaks in Wild and Domestic Sheep and Goats**
Pauline L Kamath; Paul C Cross; E Frances Cassirer; Thomas E Besser
- 4:20 PM **Detecting Pneumonia: Summer Survival and Behavioral Analysis of Mountain Goat Kids**
Julie Blanchong; Chris Anderson; Peregrine Wolff; Nicholas Clark; Caleb McAdoo; Mike Cox
- 4:40 PM **Retrospective Survival and Force-Of-Infection Modeling Following a Cross-Strain Mycoplasma ovipneumoniae Epidemic in Bighorn Sheep**
Brandi L Felts; Daniel P Walsh; E Frances Cassirer; Thomas E Besser; Jonathan A Jenks

SYMPOSIA

Session 19: Studying Species Interactions from Camera Trap Data - Analyzing the Space-Time Continuum

Organizers: Roland Kays, NC State University and NC Museum of Natural Sciences, Raleigh, NC; Marcella Kelly, Virginia Tech University, Blacksburg, VA

Location: 303

- 1:10 PM **Spatio-Temporal Interactions between White-Tailed Deer, Eastern Gray Squirrels, Raccoons and Three Potential Predators**
Arielle W Parsons; Christina Bland; Travis Forrester; Megan C Baker; Stephanie G Schuttler; William J McShea; Robert Costello; Roland Kays
- 1:30 PM **Elevational Patterns of Co-Existence and Replacement in Medium-Large Species of Terrestrial Mammals on Sumaco Volcano, Ecuador**
Brian S Arbogast; Anne-Marie C Hodge; Kai Curry-Lindahl; Travis W Knowles; Santiago F Burneo; Roland Kays
- 1:50 PM **Co-Occurrence Dynamics of Endangered Lower Keys Marsh Rabbits and Free-Ranging Cats**
Michael Cove; Theodore Simons; Beth Gardner; Allan O'Connell
- 2:10 PM **Three's a Crowd: Anthropogenic Footprint Affects Species-Species Interactions**
Jason T Fisher; Nicole Heim; Frances EC Stewart; Christy James; Sandra Frey; John P Volpe
- 2:30 PM **Significance of Human Recreational Activity in Shaping Patterns of Grizzly Bear-Black Bear Co-occurrence**
Andrew Ladle; Robin Steenweg; Brenda Shepherd; Mark Boyce
- 2:50 PM Break
- 3:20 PM **Dung Dependence: Assessing Spatio-Temporal Overlap of Small Carnivores at Natural and Artificial Dung Sources in Kenya**
Adam Ferguson; Georgia Titcomb; Roland Kays
- 3:40 PM **Modeling Densities of Sympatric Species: A Photographic Capture-Recapture Approach**
Lindsey Rich
- 4:00 PM **Aliens Among Us: How Exotic Predators Influence the Distribution of Native Species in Northeastern Madagascar**
Asia Murphy
- 4:20 PM **Exploring Spatio-Temporal Animal Use-Patterns Using Camera-Traps**
Zach Farris
- 4:40 PM **Recent Advances in Modeling Interspecific Interactions with Detection / Non-Detection Data**
Christopher Rota

Session 20: Pets, Pests, or Wildlife? Managing Free-Roaming Cats and Horses

Organizers: Jennifer Malpass, Ohio State University, Columbus, OH; Ashley Wurth, Ohio State University, Columbus, OH

Location: 304

- 1:10 PM **Where Did Wild Horses Come from: An Introduction to the Issues**
Kate Schoenecker
- 1:50 PM **Feral Horses and the Western Landscapes**
Callie Hendrickson

Sunday, October 16

- 2:30 PM **Responsible Management of Wild Horses - Native or Not**
Karen McCalpin
- 2:50 PM Break
- 3:20 PM **Why Can't We All Just Get Along? How Trust, Patience, Empathy and Collaboration Can Solve Intractable Wildlife Management Conflicts**
Holly Hazard
- 3:40 PM **Identifying the Role of Beliefs, Risk Perceptions and Emotions in Stakeholder Conflict over the Management of Free-Roaming Cats**
Dara Wald
- 4:00 PM **Feral Domestic Cats: The Science and Solutions to a Conservation Crisis**
Grant Sizemore
- 4:20 PM **Opinions from the Front Lines of Cat Colony Management Conflict**
Nils Peterson
- 4:40 PM **A Horse Is a Horse, of Course....Or Is It? The Socially Constructed Meaning of Feral Domestic Animals**
Kristina Slagle; Kirsten Leong

Session 21: Recent Approaches for Understanding Spatial Processes Using Hierarchical Metapopulation Models

Organizers: Mitchell Eaton, USGS SE Climate Science Center, Raleigh, NC; Chris Sutherland, University of Massachusetts, Amherst, MA; Richard Chandler, University of Georgia, Athens, GA

Supported by: TWS Biometrics Working Group

Location: 305A

- 1:10 PM **Space, the Final Frontier (For Hierarchical Occupancy Models)?**
Darryl I Mackenzie
- 1:30 PM **Implications of Dynamic Spatial Processes for Habitat Associations, Competitive Interactions, and Extinction Risk**
Charles Yackulic; Janice Reid; James D Nichols; Ray Davis; Sam Rossman; Elise Zipkin
- 1:50 PM **Multi-Scale Analyses of Occupancy Dynamics to Understand Regional Processes Affecting Range Dynamics**
David Miller; Evan Grant
- 2:10 PM **Detection-Biased Connectivity Measures in Metapopulation Models**
Chris Sutherland; Xavier Lambin
- 2:30 PM **Integrating Multiple Data Sources in Species Distribution Modeling: A Framework for Data Fusion**
Krishna Pacifici
- 2:50 PM Break
- 3:20 PM **An Abundance-Based, Spatial Metapopulation Model for a Reintroduced Amphibian**
Paige Howell
- 3:40 PM **Discrete Versus Continuous Space in Spatial Occupancy Models**
Mitchell J Eaton; Chris Sutherland
- 4:00 PM **Conservation Decision Making Via Spatially Explicit Meta-Population Dynamics of an Amphibian-Pathogen System**
Brian D Gerber; Larissa L Bailey; Sarah Converse; Erin Muths
- 4:20 PM **A Spatio-Temporal Occupancy Model with an Explicit Colonization Process Applied to a Common Myna Invasion**
Kristin Broms
- 4:40 PM **Spatially Explicit Occupancy Models: Mechanistic Approach vs Spatially Structured Random Effects**
Florent Bled

Sunday, October 16

Session 22: Response of Amphibians and Reptiles to Anthropogenic Disturbance

Organizers: Jessica Homyack, Weyerhaeuser, Vanceboro, NC; Thomas Gorman, Virginia Tech, Blacksburg, VA; Andrew J. Kroll, Weyerhaeuser, Federal Way, WA

Supported by: Biological Diversity Working Group; Forestry and Wildlife Working Group; Weyerhaeuser Company

Location: 305B

1:10 PM **Using Citizen Science Data to Identify the Sensitivity of Reptiles and Amphibians to Human Land Use**

Brian D Todd; Jonathan P Rose; Steven J Price; Michael E Dorcas

1:30 PM **Effects of Climate Change on Plethodontid Salamanders**

William E Peterman

1:50 PM **Behavioral and Developmental Carry-Over Effects in Anurans Mediate Invasion Success**

Tiffany S Garcia; Evan M Bredeweg; Jenny C Urbina; Maud Co Ferrari

2:10 PM **Conserving Giant Gartersnakes in an Agricultural Landscape: Can Rice Fields Function as Marshes?**

Brian Halstead

2:30 PM **Gopher Tortoise and Test Ranges: Understanding Occupancy Patterns in a Low-Density Population**

Steven J Goodman; Thomas A Gorman; Carola A Haas; Houston C Chandler

2:50 PM Break

3:20 PM **Contributions of Streamside Management Zones to Conservation of Herpetofauna in Intensively Managed Forests in the Ouachita Mountains of Arkansas**

John D Willson

3:40 PM **Persistence and Abundance of Plethodontid Salamanders in Production Ecosystems**

Andrew J Kroll; Tiffany Garcia; Jay Jones; Josh Johnson; Summer Peterman; Blake Murden; Michael Rochelle

4:00 PM **Terrestrial Salamanders and Prescribed Fire: Effects on Abundance, Detectability, and Behavior**

Katherine M O'donnell; Frank R Thompson; Raymond D Semlitsch

4:20 PM **Reptiles in an Urban Rubric: Effects, Management, and Needs**

Gregory M Skupien

4:40 PM **Wildlife Living in Intermixed Landscapes: Why Aren't There Synanthropic Amphibians?**

Tracy A G Rittenhouse

Session 23: Partnerships Across the Spectrum of Wildlife Governanc

Location: 306A

1:10 PM **Partnerships and Collaboration - Essential to Successful Fish and Wildlife Management Efforts**

Dave Chanda, Nick Wiley

1:30 PM **Epic Collaboration for Conservation**

Cynthia Jacobson

1:50 PM **Partnerships and the U.S. Forest Service**

Robert Harper

2:10 PM **Local Partnerships Fuel the Fire of Wildlife Planning: Examples from Reptile Conservation**

Kimberly M Andrews; Priya Nanjappa

2:30 PM **United We Must Stand: The Importance of Partnerships to Influence Public Lands and Natural Resources Policy**

Edward Arnett

2:50 PM Break

3:20 PM **Partnerships Across the Spectrum of Wildlife Governance**

Becky Humphries

3:40 PM **A 21st Century Model for Funding Fish and Wildlife Conservation**

Mark Humpert

4:00 PM **Conquering Conservation's Challenges through Leadership Development and Expanded Partnerships**

Gina Main

4:20 PM **The Role of Partnerships in Building a Future for TWS**

Ken Williams

4:40 PM **Panel Discussion**

Sunday, October 16**Session 24: Where Are We with Wildlife Education?**

Organizers: Larkin Powell, University of Nebraska-Lincoln, Lincoln, NE

Supported by: The College and University Education Working Group

Location: 306B

1:10 PM **Beyond the Campus: Using Massive Open Online Courses for Advancing the Use of Evidence-Based Teaching Practices**

Henry Campa, III Derek Bruff; Bennett B Goldberg; Kitch Barnicle; Robin Greenler; Robert D Mathieu; Lauren Campbell; Noah Green; Trey Mack; Tamara Carley

1:30 PM **Flipped Classrooms and Problem-Based Learning: Pedagogy for Active Learning**

Mark R Ryan

1:50 PM **Recruitment and Retention of Undergraduates into Natural Resources Programs**

Kelly F Millenbah; Bjorn H K Wolter; Robert A Montgomery; James W Schneider

2:10 PM **Delivering Fisheries and Wildlife Curricula Online**

W Daniel Edge

2:30 PM **Keeping Our Hands Dirty: Effective Teaching and Learning in the Field**

John E McDonald

2:50 PM Break

3:20 PM **The Value of Study Abroad Programs in Wildlife Education**

Carol I Bocetti; Sarah L Meiss

3:40 PM **Throwing Ecstats into the Blender: From F2F to Fully Online**

Andrew J Tyre

4:00 PM **Panel Discussion****Session 25: Zoos as Conservation Partners**

Organizers: Shana R. Lavin, Disney's Animal Programs, Lake Buena Vista, FL

Supported by: Disney's Animal Programs; Association of Zoos and Aquariums; International Wildlife Management Working Group

Location: 306C

1:10 PM **Achieving Conservation Through the AZA-Saving Animals from Extinction Program**

Peggy Ellen Sloan; Debborah Luke; Sandra Elvin

1:30 PM **The One Plan Approach: Integrated Species Conservation Planning That Links ex situ Activities to in Situ Conservation Needs**

Kathy Traylor-Holzer; Kristin Leus

1:50 PM **Zoo and Aquarium Educators as Community Based Conservationists**

James A Danoff-Burg

2:10 PM **Partnerships as a Mechanism for Effective Zoo Conservation Engagement**

Richard A Bergl

2:50 PM **Zoo Support and Capacity Building for Field Conservation Programs**

Fred Wilson Koontz

2:50 PM Break

3:20 PM **Wildlife Conservation Through Education and Participation**

Jody B Palmer

3:40 PM **Disney's Commitment to Conservation**

Shana R Lavin

4:00 PM **Conservation Partnerships between Zoos and Regulatory Agencies: Bridging Gaps, Filling Gaps**

Ronald R Swaisgood

4:20 PM **From Lab Bench to Field Site: The Value of Science in Collaborative Species Conservation Programs**

Terri L Roth; William Swanson; Valerie C Pence

4:40 PM **Panel Discussion**

Monday, October 17

PLENARY

Session 26: The Past, the Present and the Future of Invasive Species Control in North America: Achieving Success Through Innovation

Location/Time: Ballroom A/ 8:30 AM

Priya Nanjappa, Dr. Larry Clark, Dr. Erin Myers

See page 32 for more details.

Session 27: Contributed Posters

Time: 9:00 AM - 5:00 PM

Location: Grand Lobby

- 1 **Status of Landbirds on Tinian, Commonwealth of the Northern Mariana Islands**
Rick Spaulding; Richard J Camp; Paul C Banko; Angela D Anders
- 2 **Longleaf Pine-Grassland Bird Occupancy and Its Relationship to Fire Management and Vegetation Structure on the Carolina Sandhills National Wildlife Refuge**
Nancy Jordan; Jim Cox; Whitney Wallett; Sarah Haney; Ceeanna Zulla
- 4 **Modeling Potential Habitat for Pheasant Population Restoration in Pennsylvania**
Lacey T Williamson; Duane R Diefenbach; W David Walter
- 5 **Mosaic's Florida Burrowing Owl Translocation Project**
Justin R Styer
- 6 **A Bioenergetic Model to Evaluate Management Strategies for Wintering Waterfowl at Sequoyah National Wildlife Refuge**
Dustin P Taylor; Paige Schmidt; William P Johnson
- 7 **Improving Survey Methods to Better Detect Rare Grassland Birds in South Dakota**
Kassondra J Hendricks; Kristel Bakker; Charles Dieter
- 8 **Using Wind Farm Operations and Incidental Finds to Inform Eagle Collision Risk Model**
Margaret G Rheude; Leslie New
- 9 **The Effect of Release Age on the Survival of Northern Bobwhite Parent-Reared Chicks**
Kyle D Lunsford; Theron M Terhune II; James A Martin
- 10 **Estimating Behavioral Multipliers to Resting Metabolic Rate in American Black Duck and Lesser Scaup**
Jake W McPherson; Christopher Williams; Alicia Wells-Berlin; John Coluccy
- 11 **Building a Predictive Model of Submerged Aquatic Vegetation for Atlantic Brant in the Mid-Atlantic**
Chase Colmorgen; Christopher K Williams
- 12 **Nest Site Selection Response of Veery to Audio Cues of Broad-Winged Hawk**
Elizabeth A Farley-Dawson; Kenneth A Schmidt
- 16 **Could Prey Perception of Prey-Switching Explain the Urban Nest Predator Paradox?**
Kristen M Malone; Kathryn E Sieving
- 17 **Fear and Loathing in Genus Canis: Cascading Effects of Wolf Versus Coyote Competition**
David G Flagel; Gary E Belovsky; Michael J Cramer; Dean E Beyer, Jr; Katie E Robertson
- 18 **Population Size and Habitat of Indian Gazelle in Nizampur Area, District Nowshehra**
Saif Ullah
- 20 **A Step Selection Function for White-Tailed Deer Dispersal in An Agricultural Landscape**
Matthew T Springer; Clayton K Nielsen; Eric M Schaubert
- 21 **Evaluating Seasonal and Geographic Variation in the Diet of the North American River Otter in Indiana**
Sabrina M Schuler; Renee Wickliffe; Sarah Meronk; Casey C Day; Patrick A Zollner
- 22 **Winter Scavenging of Ungulate Carrion by Bald Eagles, Common Ravens and Coyotes in Northern Arizona**
Teryl G Grubb; Roy G Lopez

Monday, October 17

- 23 **Effect of Climate Condition on Winter Habitat Selection of Sika Deer in Kushiro-Shitsugen National Park, Japan**
Yoshihiro Inatomi; Hiroyuki Uno; Yuich Osa; Mayumi Ueno; Hino Takafumi; Tsuyoshi Yoshida; Takunari Murai; Yasuyuki Tachiki; Rika Akamatsu
- 24 **Large Carnivore Overabundance and Novel Mammal Community Structure in a Human Dominated Ecosystem**
Mark Chynoweth; Emrah Çoban; Çağan Şekercioğlu
- 26 **Summer Habitat Occupancy of Sciurid Populations Using Camera Traps**
L Aylett Lipford; Corinne A Diggins; W Mark Ford
- 27 **Population Management of Sika Deer with Consideration for Conservation of Red-Crowned Crane in Kushiro-Shitsugen National Park, Japan**
Hiroyuki Uno; Yuichi Osa; Yoshihiro Inatomi; Mayumi Ueno; Hiroyo Uehara; Takafumi Hino; Tsuyoshi Yoshida
- 28 **Factors Affecting Lodge Site Selection by Colonizing Beavers in the Chequamegon-Nicolet National Forest, Wisconsin**
Daniel M Wolcott; Christine A Ribic; Deahn M Donner; David J Rugg; Albert J Beck; Sue Reinecke; Dan Eklund
- 29 **Urbanization Effects on Bats Across Multiple North Carolina Cities Within the Nabat Sampling Framework**
Han Li; Matina Kalcounis-Rueppell; Katherine Caldwell
- 30 **Large and Meso-Mammal Camera Survey of Fort Pickett, Virginia**
Nicholas Kalen
- 32 **Spatial Ranges of Male Dama Gazelles in West Texas**
Susan M Cooper; Elizabeth C Mungall
- 34 **Activity and Movements of Habituated and Supplemented Wild Black Bears Compared to of Non-Habituated Bears**
Roger A Powell; Lynn L Rogers; Susan A Mansfield
- 35 **Differential Seed Preferences of Chipmunks: A Novel Statistical Approach to Cafeteria Trials**
Amy Johnson; Michael J Cramer; David Flagel; Samantha Driscoll
- 36 **Foraging Behavior and Social Interactions of White-Tailed Deer at a Concentrated Food Resource**
David B Stone; Michael J Cherry; Bradley S Cohen; James A Martin; Karl V Miller
- 37 **Trans-Pecos Pronghorn Translocation Efforts, a Summary of Survival**
Whitney J Gann; Nan Nourn-Danh; Shawn Gray
- 38 **Summer Occupancy of White-Tailed Deer on Southern Appalachian Grassy Balds**
Summer D Higdon; Corinne A Diggins; W Mark Ford
- 41 **Baseline Population Estimates and Microclimate Data for Newly Established Overwintering Brazilian Free-Tailed Bat Colonies in Central Texas**
Sara P Weaver; Thomas R Simpson; John T Baccus; Floyd W Weckerly
- 42 **The Influence of Northern River Otter Latrine Presence Upon Carnivore Species Richness and Activity Patterns**
Rebekah A Lumkes; Sarah Meronk; Natalie Euler; Casey C Day; Patrick A Zollner
- 43 **Distribution of Female Wolverines Relative to Spring Snow Cover in Alberta**
Robert B Anderson; Shevenell M Webb; Doug L Manzer; Matthew A Scrafford; Mark S Boyce
- 44 **Hunting Related Attitudes and Behaviors of College Students: Implications for Wildlife Conservation**
Brett Stayton; Lincoln R Larson; Ryan L Sharp; Adam Ahlers
- 46 **Activity Patterns of Florida Panther and Their Prey: Restoring the Landscape of Fear**
Elina Garrison; Daniel A Crawford; Brian D Kelly; Michael J Cherry; David B Shindle; Daniel U Greene; Erin H Leone; Richard B Chandler; L Mike Connor; Karl V Miller; Cory R Morea
- 47 **Effects of Thermal Environment on the Growth and Health of White-Tailed Deer Fawns during Summer**
Nicole Alonso
- 48 **Clarifying the Historical Range to Aid Recovery of the Highly Endangered Mexican Wolf**
James Heffelfinger; Ron Nowak; David Paetkau
- 49 **Low-Impact Restoration of San Diego Fairy Shrimp Vernal Pool Habitat on Marine Corps Air Station Miramar**
Richard Stolpe; Clint Scheuerman; Melissa Tu
- 50 **Fire Effects on Xeric Pine Ecosystems and Related Bird Communities in the Northern Lake States**
Lindsey M Shartell; Shelby A Weiss; R Gregory Corace, III
- 51 **40 Years of Vegetation Changes in An Old-Growth Forest Inform Predictions of Current Bird and Amphibian Populations**
David Brown; Brad Ruhfel; Stephen Richter

Monday, October 17

- 52 **Coastal Habitat Restoration on Edwin B. Forsythe National Wildlife Refuge: Living with Climate Change**
Sieges Mason; Paul Castelli; Amy Drohan; Rebecca Reeves; Marc Virgilio; Vinny Turner; Virginia Rettig; Bill Crouch
- 53 **Bat Foraging Activity at Remnant Oak Trees in California Central Coast Vineyards**
Ann Y Polyakov; Ted Weller; Bill Tietje
- 54 **Variation of Morphotypes with Dendrobatid Frog of Panama**
Dustin Howland
- 55 **Evaluating Released Ranched American Alligator Survival in Coastal Louisiana**
Kristy Capelle; Michael Kaller; Ruth M Elsey
- 56 **Taking the Throne: Bringing Kingsnakes to the Forefront of Conservation**
Sloane E Wiggers; Kimberly M Andrews
- 57 **Citizen Science: Working Outside the Box (Turtle)**
Ashley A Lavere; Anna Gray Smith; Ann Berry Somers; Catherine E Matthews
- 58 **Monitoring Painted Turtle Movements in Clay County, Minnesota, with a New Style of Trap**
Donna M Bruns Stockrahm; Jessica M Lindstrom; Scott T Buchholz; Sarah S Sanderson; Jessica L Loeffler; Elisabeth C Teige; Marissa M Reeves; Eberardo C Barragan; Jordan H White
- 59 **Locating and Tracking Green Salamander in Northern Alabama**
Rebecca John; Robert Gitzen
- 60 **In the Shadows of a Brownfield at the Dawn of Gig City: The Spatial Ecology of the Eastern Box Turtle in an Urban and Fragmented Landscape of Southeast Tennessee**
Mark Dillard; Jeremy Hooper; Team Salamander; Thomas P Wilson
- 61 **Prevalence of Chytrid Fungus in Two Species of Ranid Frogs on a Former United States Department of Defense Installation in Southeastern Tennessee: Directions for the Future**
Thomas P Wilson; Jose Barbosa; Ethan Carver; Brad Reynolds; Penni Jo Wilson; Team Salamander; Tabitha M Wilson
- 62 **A Survey and Analysis Design for Wood Turtle Abundance Monitoring Programs in the Upper Midwest**
Donald J Brown; Madaline M Cochrane; Ron A Moen
- 63 **Herpetofaunal Diversity across the Fragmented Matrix: Examining the Role of Sustainable Agriculture in Central American Conservation**
Victoria L. Strange, Joseph E. Duchamp, Erich P. Hofmann

CONTRIBUTED PAPERS

Session 28: Biometrics and Population Modeling I

Location: 301A

Moderator: Larissa Bailey, Colorado State University, Fort Collins, CO

- 10:30 AM **The Use of Integrated Population Models to Document Amphibian Reintroduction Efforts Within Restored Habitat**
Adam Duarte; Christopher A Pearl; Michael J Adams; James T Peterson
- 10:50 AM **Dynamic-Landscape Metapopulation Models: Towards a More Comprehensive Approach to Predicting Complex Responses of Wildlife Populations to Climate Change**
Thomas W Bonnot; Frank R Thompson; Joshua J Millsbaugh
- 11:10 AM **Spatial Partial Identity Models for Camera Trap Studies**
Ben C Augustine; J Andrew Royle; Marcella J Kelly
- 11:30 AM **Recent Insights into Diet Estimation with Quantitative Fatty Acid Signature Analysis**
Jeffrey F Bromaghin; Suzanna M Budge; Gregory W Thiemann; Karyn D Rode
- 11:50 AM **Comparison of N-Mixture Models and Distance Sampling for Abundance Estimation: Application Using Aerial Survey Data from an Unmarked Deer Population**
Sonja A Christensen; David M Williams; William F Porter; Brent Rudolph

Monday, October 17**Session 29: Birds and Fire Science**

Location: 301B

Moderator: Paul Taillie, North Carolina State University, Raleigh, NC

10:30 AM Effects of Wildfires on Survival of Northern Spotted Owls

Jeremy T Rockweit; Alan B Franklin; Peter C Carlson

10:50 AM Black-Backed Woodpecker Density in Green, Unburned Forests

Jake Verschuyf; Katherine Halstead; Dennis Rock; Jaime Stephens

11:10 AM Juvenile Songbird Survival, Movement, and Habitat Selection in a Landscape Managed with Frequent Fire

Alexander C Fish; Christopher E Moorman; Christopher S DePerno; Jessica M Schillaci

11:30 AM Influence of Human Activities and Environmental Change on Greater Sage-Grouse Population Trends: Anthropogenic Development, Fire, Habitat, Hunter Harvest, and Weather

Jonathan B Dinkins; Jeffrey L Beck; Kirstie J Lawson

11:50 AM Mixed-Severity Fire Drives Avian Community Structure in Short- and Long-Term

Paul Taillie; Ryan Burnett; Brent Campos; Nils Peterson; Chris Moorman

Session 30: Conservation Planning and Policy

Location: 302A

Moderator: Liz Rutledge, North Carolina Wildlife Federation, Raleigh, NC

10:30 AM Application of Structured Decision Making to Wildlife Management in Montana

Sarah N Sells; Michael S Mitchell; Justin A Gude; Neil J Anderson

10:50 AM The U.S. Navy's San Clemente Shrike Campaign: Opens Standards Conservation Planning and Evolution in Recovery of an Endangered Passerine

Andrew Bridges; Melissa Booker; Nicole Desnoyers; Susan Farabaugh; David Garcelon; Gjon Hazard; Kimberly O'Connor; Quinn Shurtliff; Justyn Stahl; Sandy Vissman

11:10 AM The South Atlantic Conservation Blueprint: From Planning to Action

Louise B Vaughn; Hilary Morris

11:30 AM Land Use and Transportation Planning Outcomes from the N.C. Wildlife Commission's Green Growth Toolbox Program

Kacy Cook; Brooke Massa; Allison Weakley; Jeff Marcus

11:50 AM Bats In The Belfry - Statewide Permits For Federally Listed Bats

Paola Bernazzani

Session 31: Conserving Landscapes for Wildlife

Location: 302B

Moderator: Adam Terando, North Carolina State University, Raleigh, NC

10:30 AM Balancing the Needs of Bears and Foresters: A Methodology to Identify Specific Forest Management Goals That Regionally Benefit an Umbrella Species

Jennifer L Murrow; Annette Spivy; Joseph Clark; Cindy Thatcher; Maria Davidson

10:50 AM Dynamic Landscapes: Change Detection of Ephemeral Habitats for the Endangered Indiana Bat in the Mid-Atlantic

Michael St Germain; Andrew Kniowski; Alex Silvis; W Mark Ford

11:10 AM Are We Moving Beyond Planning? A Synthesis of Climate Change Adaptation Case Studies

Tracy A Swem; Laura Thompson

11:30 AM A Temporal Model to Assess Cropland as Dispersal Habitat for Bobcat

Christopher S DePerno; Aimee P Rockhill; Roger A Powell; Glenn P Catts

11:50 AM Habitat Connectivity at Multiple Scales: Informing Conservation and Management of the Gopher Tortoise

Helen E Tripp; Robert A Gitzen; Sharon M Hermann

Monday, October 17

Session 32: Mammal Occupancy Dynamics

Location: 302C

Moderator: Christopher Ayers, Mississippi State University, Mississippi State, MS

- 10:30 AM **Prey, Livestock, Humans and Linkages: Factors Influencing Tiger Occupancy and Conflicts in Corridors of Central India**
Sprih Harsh; Jyotirmay Jena; Jimmy Borah; Soumen Dey
- 10:50 AM **The Roles of Habitat and Intraguild Predation on the Spatial Dynamics of a Subordinate Mesocarnivore**
Robert C Lonsinger; Eric M Gese; Larissa L Bailey; Lisette P Waits
- 11:10 AM **Single-Camera versus Multiple-Camera Survey Designs: Impacts on Occupancy and Community Metrics**
Brent S Pease; Eric J Holzmueller; Clay K Nielsen
- 11:30 AM **Investigating the Impact of Local Versus Landscape-Level Variables on Bat Species Occupancy in Indiana**
Karly Rushmore; Aaron Brehm; Laura E D'Acunto; Patrick A Zollner
- 11:50 AM **Using Puma Occupancy to Examine the Importance of Microhabitat and Landscape Habitat Variables across Seven Sites in Belize**
Christopher Rowe

Session 33: Mammal Physiology

Location: 303

Moderator: David Jachowski, Clemson University, Clemson, SC

- 10:30 AM **Potential Foraging Decisions by Desert Bighorn Sheep to Balance Water and Nutrient Intake in a Water-Stressed Environment**
James W Cain; Jay V Gedir; Paul R Krausman; Jamison D Allen; Glenn C Duff; John R Morgart
- 10:50 AM **Calibration of a Rumen Bolus to Measure Internal Body Temperature in Moose**
Andrew Herberg; Véronique St-Louis; Michelle Carstensen; James Forester
- 11:10 AM **American Black Bear Cubs Experience High Weight Gain in First Weeks of Life to Account for Underdevelopment at Birth**
Colleen Olfenbuttel; Bernardo Mesa Cruz; Marcella J Kelly; Michael Vaughan
- 11:30 AM **Unsatisfied Caribou: Evidence of Nutritional Limitations on Summer Ranges**
Kristin A Denryter; Rachel C Cook; John G Cook; Katherine L Parker
- 11:50 AM **Energetics of Roost Selection in Reproductive Silver-Haired Bats**
Shelby Bohn

Session 34: Raptor Ecology and Conservation

Location: 304

Moderator: Jason Winiarski, North Carolina State University, Raleigh, NC

- 10:30 AM **Buteo Ecology: An Intensive Study of Swainson's Hawks on the Northern Great Plains**
Will Inselman; Shubham Datta; Kent Jensen; Jonathan Jenks; Troy Grovenburg
- 10:50 AM **Nest Site Selection Response of Veery to Audio Cues of Broad-winged Hawk**
Elizabeth A. Farley-Dawson, Kenneth A. Schmidt
- 11:10 AM **Impact of Global Warming on the Riverine-Nesting Steller's Sea Eagles in the Northern Part of the Sea of Okhotsk**
Eugene Potapov; Irina Utekhina; Michael McGrady
- 11:30 AM **Reproductive Ecology of Golden Eagle in the Northern Great Plains**
Shubham Datta; Jonathan A Jenks; Kent C Jensen; Robert W Klaver; Troy W Grovenburg
- 11:50 AM **Multi-Spatial Scale Analysis of Mexican Spotted Owl Breeding Site Selectivity and Reproduction**
Serra Jeanette Hoagland

Monday, October 17**Session 35: Reptile and Amphibian Habitat Conservation**

Location: 305A

Moderator: Sarah Fritts, North Carolina State University, Raleigh, NC

10:30 AM **The Effects of Prescribed Fire on Eastern Box Turtles in the Oak Openings Region of Northwestern Ohio**
Matt Cross; Karen Root10:50 AM **Effects of Wetland Construction for Wildlife Management on Amphibian Communities of Upland Embedded Wetlands**
Stephen C Richter; Andrea N Drayer; Robert D Denton; Susan K King; Chelsea S Kross; Audrey L McTaggart; Rachel B Fedders; Christina R Wampler11:10 AM **Habitat Selection in the Gray Ratsnake: Tradeoffs in Management for Maintenance of the Longleaf Pine Ecosystem**
Jennifer M Howze; Lora Smith; Kim Sash11:30 AM **Modeling Priority Amphibian and Reptile Conservation Areas (PARCAs) in the Northeastern United States**
Cynthia Loftin; William Sutton; Kyle Barrett; Phillip Demaynadier; Priya Nanjappa; Allison Moody11:50 AM **Determining Vulnerability of Priority Amphibian and Reptile Conservation Areas to Climate Change and Urbanization in the Northeastern United States**
William Sutton; Kyle Barrett; Cynthia Loftin; Phillip Demaynadier; Priya Nanjappa; Allison Moody**Session 36: Biometrics and Population Modeling II**

Location: 301A

Moderator: David Miller, Pennsylvania State University, University Park, PA

1:10 PM **A Spatio-Temporal Model to Infer Colonization Dynamics, and Inform Monitoring of Sea Otters in Glacier Bay, Alaska**
Perry J Williams; Mevin B Hooten; Jamie N Womble; George G Esslinger; Michael R Bower1:30 PM **Modelling the Effect of Restricted-Area Culling on Local Fox Density**
Tom Porteus; Jonathan Reynolds; Murdoch Mcallister1:50 PM **Viability of the Alaskan Breeding Population of Steller's Eiders**
Kylee Dunham; James B Grand2:10 PM **Validation and Discrimination of Species Distribution, Habitat Selection, and Step-Selection Models**
John R Fieberg; James D Forester; Douglas H Johnson; Jason Matthiopoulos; Garrett M Street2:30 PM **A Comparison of Design-Based vs. Hierarchical Models for Aerial Transect Surveys**
Mark C Otto; John R Sauer

2:50 PM Break

3:20 PM **Informing Reserve Design with Demography for Gopher Tortoise Conservation Planning in Georgia, United States**
Bryan L Nuse; Clinton T Moore; Nahid Jafari; Jeffrey Hepinstall-Cymerman; Matt Elliott3:40 PM **Long-Term Population Ecology and Large-Scale Movement Patterns of Gopher Tortoises in Southwestern Georgia: A Spatial Capture-Recapture Approach**
Alexander Wright; Jeffrey Hepinstall-Cymerman; Lora Smith; Clinton Moore; Richard Chandler4:00 PM **Evaluating the Use of Citizen Science to Monitor Avian Communities in the Arizona Sky Islands, United States**
Jamie S Sanderlin; William M Block; Joseph L Ganey; Jose M Iniguez4:20 PM **Where Bears and People Collide: Velocity of Range Expansion of North Carolina Black Bears**
Joe Folta; H Brian Underwood4:40 PM **Evaluating the Occupancy-Density Relationship for a Low-Density Carnivore**
Daniel W Linden; Angela K Fuller; J Andrew Royle; Matthew P Hare

Monday, October 17**Session 37: Mammal Demography and Behavior**

Location: 301B

Moderator: Chris Jacques, Western Illinois University, Macomb, IL

- 1:10 PM **Class Structure, Habitat Selection, and Associated Mortality Risk in a Highly Exploited Coyote Population**
Dana J Morin; Marcella J Kelly
- 1:30 PM **Looking Over the Edge: Functional Semelparity and Population Dynamics in an Endangered Squirrel Population**
Emily A Goldstein; Melissa J Merrick; John L Koprowski
- 1:50 PM **Distribution of Female Wolverines Relative to Spring Snow Cover in Alberta**
Robert B. Anderson; Shevenell M. Webb; Doug L. Manzer; Matthew A. Scrafford; Mark S. Boyce
- 2:10 PM **Fear and Loathing in Genus Canis: Cascading Effects of Wolf Versus Coyote Competition**
David G Flagel; Gary E Belovsky; Michael J Cramer; Dean E Beyer, Jr; Katie E Robertson
- 2:30 PM **To Forage or to Guard: Movement Analysis of the Solitary Larder-Hoarding Golden-Mantled Ground Squirrel**
Kira Hefty
- 2:50 PM Break
- 3:20 PM **Risk-Effects of a Human-Altered Landscape: Nutritional Tradeoffs in Behavior of Mule Deer**
Samantha Ph Dwinell; Hall Sawyer; Matthew Kauffman; Gary Fralick; Kevin Monteith
- 3:40 PM **Predator-Sensitive White-Tailed Deer Mortality Investigations**
Brian D Kelly; Daniel Crawford; Michael J Cherry; David B Shindle; Elina Garrison; L Mike Conner; Richard B Chandler; Karl V Miller
- 4:00 PM **All in the Family? Linking Sociality and Relatedness to Group Dynamics of Large Mammals**
Brittany Slabach
- 4:20 PM **Risk Versus Reward: An Evaluation of Coyote Space Use in the Context of Cougar Predation and Dynamic Prey Resources**
Peter John Mahoney; Julie K Young; David C Stoner; Leslie R McFarlane
- 4:40 PM **Understanding Predation Risk and Individual Variation in Wolf Avoidance by Boreal Caribou**
Matthew A Mumma; Michael Gillingham; Kathy Parker; Chris Johnson; Megan Watters

Session 38: Mammals in Urban Landscapes

Location: 302A

Moderator: Nick Gould, North Carolina State University, Raleigh, NC

- 1:10 PM **Urban/Suburban Habitats - Source or Sink for American Black Bears**
Nicholas P Gould; Christopher S DePerno; Colleen Olfenbittel
- 1:30 PM **Mountain Lion Movement Dynamics in the Wildland-Urban Interface**
Frances Buderman; Mevin Hooten; Mat Alldredge
- 1:50 PM **Impacts of Human Disturbance on Carnivores in Protected Areas of the Southwest**
Angela Darnell Baker; Paul Leberg
- 2:10 PM **Patterns of Bat Species Diversity and Relative Activity Within a Highly Urban Ecosystem**
Elizabeth W Lehrer; Patrick J Wolff; R Julia Kilgour; Seth B Magle
- 2:30 PM **Spatial Characteristics of Residential Development Shift Large Carnivore Prey Habits**
Justine A Smith; Yiwei Wang; Christopher C Wilmers
- 2:50 PM Break
- 3:20 PM **A Non-Lethal Strategy for Controlling Eastern Gray Squirrel Populations in Urban Areas**
Kristina M Dunn; Wayne Y Chao; William Bridges; Christi Yoder; Sandra Gray; J Drew Lanham; Greg Yarrow
- 3:40 PM **Using the Wildlife Picture Index to Measure Ecosystem Resilience and Connectivity in Sonoma County, California**
Susan E Townsend
- 4:00 PM **Species Composition and Temporal Patterns of Road-Kills along Physiographically Distinct Routes in Southwest Virginia**
James Vance; Walter Smith; Gabrielle Smith

Monday, October 17

4:20 PM **The Urban Caracal Project: Examining the Effects of Human Activities on an Isolated Caracal Population**
Laurel Ek Serieys; Justin Johnson; Joleen Broadfield; Veronica Yovovich; Shaelynn Squires; Chris C Wilmers; Jacqueline Bishop; Justin O'Riain

4:40 PM **Risky Business: Black Bear Movements Within Developed Landscapes**
Michael J Evans; Tracy A G Rittenhouse; Jason E Hawley; Paul W Rego

Session 39: The Role of Wildlife Professionals in Transportation Planning

Location: 302B

Organizers: Kimberly M. Andrews, University of Georgia and Jekyll Island Authority, Jekyll Island, GA; Patricia Cramer, Logan, UT; Seth P.D. Riley, National Park Service, Thousand Oaks, CA

Supported by: TWS Urban Wildlife Working Group

1:10 PM **The Role of Wildlife Professionals in the Transportation Planning Process**
Patricia Cramer

1:30 PM **The Role of Federal Highway Administration in Mitigating Transportation Effects on Wildlife**
Brian Yanchik

1:50 PM **The Intersection of Transportation and Wildlife at the National Level**
James B Martin

2:10 PM **From Bats to Bass: Assessing Threatened and Endangered Species Needs in the Transportation Planning Process**
Carrie A Straight; Pete E Pattavina; Christopher J Coppola

2:30 PM **National Park Service Efforts to Maintain Landscape Connectivity for Wildlife in the Los Angeles Area**
Seth P D Riley

2:50 PM Break

3:20 PM **Integrating Ecology, Human Dimensions, and Engineering for Mitigating Effects on Diamondback Terrapins on Coastal Causeways**
Brian A Crawford; Kimberly M Andrews; David M Zailo; John C Maerz; Terry M Norton; Michelle Kaylor

3:40 PM **Connecting Habitat across New Jersey**
Gretchen Fowles; Brian Zarate; Mackenzie Hall

4:00 PM **Habitat Connectivity Planning in North Carolina**
Brian Yamamoto

4:20 PM **US 64 Widening in Eastern North Carolina, a Resource Agency Perspective**
Travis W Wilson

4:40 PM **Evolving Habitat Connectivity Planning in North Carolina**
Anne Burroughs

Session 40: Waterfowl Ecology and Conservation

Location: 302C

Moderator: Joe Fuller, NC Wildlife Resources Commission, Raleigh, NC

1:10 PM **Using Landscape Characteristics to Predict Distribution of Resident Canada Geese**
Mark A Mcalister; Christopher E Moorman; Christopher S DePerno; Joseph C Fuller; Douglas L Howell

1:30 PM **Carry-Over Effects and Seasonal Sympatry with Ecologically Similar Species Drives Survival of an Uncommon Goose**
Joel A Schmutz; Brian D Uher-Koch; Sarah E McCloskey; Daniel J Rizzolo; Raymond M Buchheit; Patrick R Lemons; Liliana C Naves; Julian Fischer

1:50 PM **Does Body Condition of Lesser Snow and Ross's Geese Harvested during the Light Goose Conservation Order Differ from the General Population?**
Drew N Fowler; Mark P Vrtiska; Elisabeth B Webb

2:10 PM **Assessing Pre-Emptive and Apparent Competition Exhibited by Cackling Geese and Lesser Snow Geese on Breeding Atlantic Brant**
Christopher Williams

Monday, October 17

- 2:30 PM **Curtailing Population Growth of Temperate Canada Geese: The Roles of Harvest and Density Dependent Competition for Breeding Habitat on Population Dynamics**
Samuel A Iverson; Christopher Sharp; R Jack Hughes
- 2:50 PM Break
- 3:20 PM **Evaluating the Relationship between Local Food Availability and Wetland Landscape Structure in Determining Waterfowl Habitat Use during Migration**
Travis Schepker; Elisabeth Webb; Ted Lagrange
- 3:40 PM **Does Landscape Composition Influence Breeding Waterfowl Densities on Iowa Wetlands?**
Tyler M Harms; Orrin E Jones Iii; Stephen J Dinsmore; Rex R Johnson
- 4:00 PM **On Bait Buckets and Boreal Ducks: Associations between Migrant Duck Physiology and a Wetland-Ecosystem Engineer**
Adam Janke; Micheal Anteau; Joshua Stafford
- 4:20 PM **American Black Ducks Wintering in Central Appalachia**
Megan Spindler; Mike Peters; Ian Gregg; James T Anderson
- 4:40 PM **Stiff-Tailed Duck Time-Activity Budgets in Puerto Rico**
Nikolas S Goodman; Jack C Eitniear; James T Anderson

Session 41: Wildlife Diseases and Contaminants

Location: 303

Moderator: Chris DePerno, North Carolina State University, Raleigh, NC

- 1:10 PM **Density-Dependent and Frequency-Dependent Disease Transmission Are Very Difficult to Distinguish Early in Outbreaks**
Eric M Schaubert
- 1:30 PM **Wildlife Health and Public Trust Responsibilities for Wildlife Resources**
Dan Decker; Krysten Schuler; Ann Forstchen; Margaret Wild; William Siemer
- 1:50 PM **Lyme Disease Prevalence and Small Mammal Abundances on Fort Drum Military Installation, New York**
Samantha Fino; John Edwards; Sheldon Owen; Jeffrey Wimsatt; Raymond Rainbolt
- 2:10 PM **Improving Enhanced Wildlife Rabies Surveillance Through a Cooperator-Based Networking Matrix in Support of Oral Rabies Vaccination**
Jordona D Kirby; Kathleen M Nelson; Dennis Slate; Timothy P Algeo; Bradley N Hicks; Robert L Hale; Betsy S Haley; Richard B Chipman
- 2:30 PM Break
- 3:20 PM **Zoonotic Parasites in West Virginia Bobcat Population**
Kirsten Belcher
- 3:40 PM **Snow Geese as a Reservoir Host for Influenza A Viruses**
Susan A Shriner; Sarah N Bevins; J Jeffrey Root; Kevin T Bentler; Jeremy W Ellis; Kaci K Vandalen; Heather J Sullivan; Thomas Gidlewski
- 4:00 PM **Changes in the Foraging Behavior of American White Ibis with Urbanization Increase Their Risk of Infection with *Salmonella enterica***
Maureen H Murray; Sonia M Hernandez; R Scott Rozier; Jeffery Hepinstall-Cymerman; Anjelika Kidd; Erin Lipp
- 4:20 PM **Acute Toxicity of Gossypol on Northern Bobwhites**
Amy Okichich; T Wayne Schwertner; Heather Mathewson; Kimberly Guay
- 4:40 PM **Accumulation and Immunological Costs of Trace Element Contaminants in Yellow-Bellied Sliders**
David L Haskins; Matt T Hamilton; Amanda Jones; John W Finger, Jr; Robert B Bringolf; Tracey D Tuberville

Monday, October 17**SYMPOSIA****Session 42: Large Predator Restoration and Management in North America-Part I**

Organizers: Michael Cherry, Joseph W. Jones Ecological research Center, Newton, Georgia; David Shindle, U. S. Fish and Wildlife Service, Immokalee, Florida

Supported by: U. S. Fish and Wildlife Service

Location: 304

1:10 PM **Predator Restoration in North America**

Michael J Cherry; David Shindle

1:30 PM **Florida Panther Recovery and the Prospect of Restoring the Puma to the Southeast**

David Shindle; Kipp Frohlich

1:50 PM **Coexistence: The Reality of Mexican Wolves in a Working Landscape**

John K Oakleaf; Sherry Barrett; Kent Laudon

2:10 PM **Restoring Large Predators on Private Lands: Challenges and Lessons Learned from the Red Wolf Recovery Program**

Pete Benjamin

2:30 PM **Grizzly Bear Recovery: Progress and Problems Toward a Common Objective**

Chis Servheen

2:50 PM Break

3:20 PM **Sustainably Logged Forests Support Similar Distributions of Mammals and Similar Densities of Jaguars, Pumas, and Ocelots, as a Protected Area in North-Western Belize, Central America**

Marcella J Kelly; Christopher B Satter; Christopher B Rowe

3:40 PM **Where to Go from Here? The Geography of Mexican Wolf Recovery**

Tracy Melbhiess

4:00 PM **Predator Conservation and Restoration in Human-Dominated Landscapes: A Case Study with Pumas in Central California**

Justine Smith

4:20 PM **Socioeconomic Benefits of Large Carnivore Recolonization Through Reduced Wildlife-Vehicle Collisions**

Sophie Gilbert

4:40 PM **Using Site-Specific Research to Improve Strategies for Red Wolf Recovery**

Joseph W Hinton; Michael J Chamberlain

Session 43: Communication: The Key to Effective Wildlife Management Programs

Organizers: Andrew R. Little, University of Georgia, Athens, GA; Adam T. Rohnke, Mississippi State University Extension, Raymond, MS; Gary San Julian, Penn State University, State College, PA; Kristi Confortin, Ball State University, Muncie, IN

Supported by: Public Conservation and Outreach Working Group; Student Development Working Group

Location: 305A

1:10 PM **Wake 'Em Up, Shake 'Em Up Presentations**

Cheryl Riley

1:50 PM **Understanding Your Audience before You Speak**

Adam Troy Rohnke

2:10 PM **Dealing with the Media: Lessons from Deer and Bobcat Research in Georgia and South Carolina**

Robert J Warren

2:30 PM **Bearwise: A Cooperative Regional Approach to Communicating Consistent Messages about Black Bears**

Colleen Olfenbittel; Dan Gibbs; Maria Davidson; Dave Telesco; Adam Hammond

2:50 PM Break

3:20 PM **Follow the Yellow Brick Road: Communicating with Funders**

Ben C West

Monday, October 17

- 3:40 PM **Your Social Media Presence: Big Opportunities and Devastating Mistakes**
Ed Thompson
- 4:00 PM **Engaging the Public through Social Media - a Tool for Wildlife Ecologists**
Mark McConnell
- 4:20 PM **Communication Through Engagement and Discovery: Citizen Science**
Stephanie Schuttler; Tavis Forrester; Robert Costello; William McShea; Robert Dunn; Roland Kays
- 4:40 PM **Communicating Science with Underserved Audiences**
Liani M Yirka

Session 44: Conserving Wildlife in Open-Pine Forests: Management in the Rapidly Changing Southeastern United States

Organizers: Mike Conner, Joseph W. Jones Ecological Research Center, Newton, GA; Darren Miller, Weyerhaeuser Company, Columbus, MS; Robert McCleery, University of Florida, Gainesville, FL; Chris Moorman, North Carolina State University, Raleigh, NC

Supported by: Hunting, Trapping and Conservation Working Group; Urban Wildlife Working Group

Location: 305B

- 1:10 PM **Current State of Pine Forests in the Southeastern United States**
Bentley Wigley
- 1:30 PM **The America's Longleaf Restoration Initiative: Achieving Conservation Outcomes at Landscape Scale**
Troy Ettel
- 1:50 PM **The Role of Shortleaf Pine in Savanna and Woodland Management**
Mike Black
- 2:10 PM **Using Wildlife Habitat Models to Evaluate Management Endpoints for Longleaf Pine Savanna**
Lora L Smith; Mike Conner; Elizabeth M Schlimm
- 2:30 PM **Importance of Landscape-Scale Approaches to Wildlife Conservation in Longleaf Pine Systems**
Paul Tallie
- 2:50 PM Break
- 3:20 PM **Conservation of Longleaf Pine on Private Lands: Role of a Charismatic Game Species, the Northern Bobwhite**
Theron M Terhune; William E Palmer
- 3:40 PM **Do Growing-Season Fires Pose a Threat to Ground-Nesting Birds in the Longleaf Pine Ecosystem?**
Christopher Moorman; Eric Kilburg; Alexander Fish; Jay Winiarski; Sarah Rosche; John Carpenter; Jessie Schillaci; Craig Harper; Christopher DePerno
- 4:00 PM **Fruit Production Indicates a Lack of Mosaic in Fire-Spread in the Longleaf Ecosystem**
Marcus Lashley; M Colter Chitwood; Alan Schultz; Jeff Jones; Chris DePerno; Chris Moorman
- 4:20 PM **2015 National Prescribed Fire Use Survey**
Mark Melvin
- 4:40 PM **An Economic Perspective on Managing Longleaf and Other Open Pine Systems for Wildlife**
Kevin McIntyre

Session 45: Climate Change and Migratory Birds: Connecting Management Challenges to Research Programs

Organizers: Madeleine Rubenstein, USGS National Climate Change & Wildlife Science Center, Reston, VA; Jennifer Roach, University of Alaska Fairbanks, Fairbanks, AK; Brad Griffith, USGS Alaska Cooperative Fish and Wildlife Research Unit, Fairbanks, AK

Supported by: TWS Climate Change Working Group; USGS National Climate Change and Wildlife Science Center

Location: 306A

- 1:10 PM **Climate Change and Migratory Birds: Introductory Remarks**
Madeleine Anne Rubenstein
- 1:30 PM **Species Prioritization: Migratory Bird Conservation in the Face of Limited Resources and a Changing Climate**
Rick Bennett

Monday, October 17

- 1:50 PM **Climate Change Vulnerability of Migratory Birds: Challenges, Opportunities, and Research Priorities**
Laura Thompson
- 2:10 PM **Managing Coastal Habitats for Migratory Waterbirds in a Changing Climate**
Sara Schweitzer
- 2:30 PM **Climate Impacts to Migratory Bird Habitat: Implications of Drought for Wetland-Dependent Birds**
Susan Skagen; Valerie Steen; Helen Sofaer; Barry Noon
- 2:50 PM Break
- 3:20 PM **Prioritizing Critical Habitat for Migratory Birds Under Climate Change: A Management Challenge**
Ken Kriese
- 3:40 PM **Robust Spatial Prioritizations for Avian Conservation Under a Changing Climate**
Chad Wilsey; Caitlin Jensen; Gary Langham
- 4:00 PM **Incorporating Climate Effects into Management of Harvest and Take of Migratory Birds**
Michael C Runge
- 4:20 PM **Getting to Actionable Science: Wicked Problems, Decision Science, and Boundary Organizations**
Fred Johnson; Mitchell Eaton; Gerard McMahon; Jessica Mikel-Carrasco; Julien Martin
- 4:40 PM **Panel Discussion**

Session 46: Managing Invasive Species at Scales from the Ground to the Landscape: The Power of Partnerships

Organizers: Erin P. Myers, USFWS, Immokalee FL; Cheryl Millett, TNC, Babson Park, FL; Gary Potts, Illinois Department of Natural Resources, Vandalia, IL; Bruce Anderson, Minnesota Department of Natural Resources, Cloquet, MN

Supported by: TWS Invasive Species Working Group

Location: 306B

- 1:10 PM **Coordinating Invasive Species Management Across the Continent - the North American Invasive Species Forum 2017**
Michael Ielmini
- 1:30 PM **Partnerships Produce Success in Dealing with Invasive Species**
Scott Cameron
- 1:50 PM **The Power of Partnerships: Increasing Efficiency and Effectiveness with Cooperative Invasive Species Management Areas (CISMAs)**
Cheryl B Millett
- 2:10 PM **Partnering to Address Policy Needs: The Role of the Association of Fish and Wildlife Agencies in Invasive Species Prevention, Control, and Management**
Priya Nanjappa
- 2:30 PM **Managing Invasive Wild Pigs in North America**
James C Beasley
- 2:50 PM Break
- 3:20 PM **Collaborative Management and Control of Asian Carp in the Mississippi River Basin**
Greg Conover
- 3:40 PM **Landscape-Scale Conservation: Bridging the Gaps between Public, Private, Professional and Volunteer Conservation Efforts**
Lisa Brush
- 4:00 PM **The Blackfoot Challenge: Community- Based Conservation in the Blackfoot Watershed**
Karen Laitala
- 4:20 PM **Creating a Coalition of Partners to Manage Invasive Plants in the Hickory Nut Gorge**
David Lee
- 4:40 PM **Panel Discussion**

Monday, October 17

Session 47: Women and Minorities in Wildlife Science

Organizers: Carol Chamber, Northern Arizona University, Flagstaff, AZ; Serra Hoagland, Northern Arizona University, Flagstaff, AZ; Kerry Nicholson, Alaska Department of Fish and Game, Fairbanks, AK

Supported by: Women of Wildlife Organizational Committee, Native Peoples' Wildlife Management Working Group

Location: 306C

1:10 PM **Portals to the Profession**

Winifred Kessler

1:30 PM **Creating a Diverse Work Force of Wildlife Biologists: How Are We Doing?**

Lisette Waits; Kerry Nicholson

1:50 PM **Influencing Success of Women and Minorities in Fisheries and Wildlife Professions**

Dan Edge

2:10 PM **Underrepresented Groups and the Need to Change**

Mamie Parker

2:30 PM **From Idle Observer to Conscientious Objector: Promoting Equality in the Workplace**

Serra Hoagland; Carol L Chambers; Kerry Nicholson

2:50 PM Break

3:20 PM **A Native American Perspective**

Serra Jeanette Hoagland

3:40 PM **Climate Change in Our Profession, One Wildlifer at a Time**

Dana Sanchez; John Koprowski

4:00 PM **Millennial Is Not a Dirty Word: New Generation Perspectives**

Jennifer S Malpass; Jonathan J Derbridge

4:20 PM **Models That Work: Taking Charge of Change**

Sarah Fritts; Tabitha Graves

4:40 PM **The Take Home: Promoting Equality in the Workplace**

Carol L Chambers; Serra Hoagland; Kerry Nicholson

Tuesday, October 18

PLENARY

Session 48: Is Sustainable Use of Wildlife Sustainable?

Location/Time: Ballroom A/ 8:30 AM

Dr. Shawn Riley, Dr. John McDonald, Shane Patrick Mahoney

See page 33 for more details.

STUDENT RESEARCH IN PROGRESS POSTERS

Session 49: Student Research in Progress Posters

Time: 9:00 AM - 6:00 PM

Location: Grand Lobby

- 1 **Anthropogenic and Natural Catastrophic Effects on the Population Dynamics of Florida Manatee**
Maria P CamPOSECO; Jasmin Diaz-Lopez; Hsiao-Hsuan Wang; William Grant
- 2 **Estimating Population Parameters of the American Black Bear in Central Georgia, United States of America**
Annaliese Ashley; Michael Hooker; Jared Laufenberg; Richard Chandler; Michael Chamberlain
- 3 **Using Spatial Capture-Recapture Methods to Estimate Fawn Recruitment and Survival from Camera Data**
Kristin N Engebretsen; Michael J Cherry; Brian D Kelly; Daniel A Crawford; L Mike Conner; Elina Garrison; David Shindle; Karl Miller; Richard Chandler
- 4 **Matrilineal Partitioning in the Leopard across Sub-Saharan Africa**
Corey Anco; Evon Hekkala
- 5 **As Time Flies By: Factors Influencing Shorebird Variation in Florida and Georgia**
Lucas E Price; Bradley J Swanson
- 6 **Mixed-Species Flock Dynamics of Parulid Warblers during Spring Migration**
Carolyn Buesch
- 7 **An Assessment of Roadside Rights-Of-Way along State Highways as Habitat for Grassland Birds in South Dakota**
October R Greenfield; Kristel K Bakker; Kent C Jensen
- 8 **Nest Attendance Patterns of Blue-Winged Teal in North Dakota**
Nick S Conrad
- 9 **Predation at Waterfowl Nests in North Dakota**
John D Palarski
- 10 **Occurrence Patterns of Songbirds in Response to Cattail Management at Glacial Ridge National Wildlife Refuge**
Joshua J Bruggman; Susan Ellis-Felege; W D Svedarsky; Vanessa Lane; Gregg Knutsen
- 11 **Shorebird Parental Behaviors and Nest Success in Response to Research Activity**
Alicia K Andes; Terry L Shaffer; Mark H Sherfy; Colin M Dovichin; Susan N Ellis-Felege
- 12 **The Effect of Variable Sand Temperatures on Least Tern and Piping Plover Parental Nest Behaviors on the Missouri River**
Lindsay M Wise; Alicia K Andes; Susan N Ellis-Felege
- 14 **Use of Distance Sampling to Monitor Northern Bobwhite Response to Post-Grazing Vegetation Changes in South Texas**
Rachel A Smith; Leonard A Brennan; Fidel Hernández; Humberto L Perotto-Baldivieso
- 15 **Movements of Montezuma Quail in Central New Mexico**
Karlee Cork; Elizabeth Oaster; Ryan Luna
- 16 **Microhabitat Use of Migrating Northern Saw-Whet Owls**
Sarah Johanson; Janelle Taylor
- 17 **Shorebird Utilization of Horseshoe Crab Eggs at Cape Romain National Wildlife Refuge, South Carolina**
Fumika Takahashi; Patrick Jodice; Felicia Sanders
- 18 **Habitat Use and Resource Selection of a Wading Bird along an Urbanization Gradient**
Anjelika Kidd; Jeffrey Hepinstall Cymerman; Maureen H Murray; Sonia M Hernandez

Tuesday, October 18

- 19 **Nesting Ecology of Translocated Eastern Wild Turkeys in East Texas**
Bryce J Gerlach; Christopher E Comer; Roger J Masse; Kyle T Hand; Jason B Hardin
- 20 **Cinnamon Teal Breeding Ecology in the San Luis Valley, Colorado**
Casey Setash
- 21 **Avian Response to Extreme Weather Events: A Case Study Using Maps Data**
Nicolas Jaffe; Tim O'Connell; Mona Papes
- 22 **Breeding Bird Responses to Post Oak Savannah Restoration in Eastern Texas**
Courtney K Williams; Roger J Masse; Christopher E Corner; Jeffrey Gunnels
- 24 **Sage Thrasher Nest Roofs as a Response to Predation and Temperature**
Kayla J Carr; Jason D Carlisle; Anna D Chalfoun
- 25 **Winter Survival and Habitat Selection of Translocated Northern Bobwhite in the New Jersey Pine Barrens**
Kaili R Stevens; Dr Chris Williams; Dr Theron Terhune; John Parke
- 26 **Occupancy and Detectability of Loggerhead Shrikes in South Carolina**
Jennifer L Froehly; David S Jachowski; Patrick Gr Jodice; Amy Tegeler; Beth Ross
- 27 **Ruffed Grouse Drumming Log Preferences Near Tomahawk, Wisconsin**
Jeffrey G Williams; Holly M North; Samuel E Lau; Benjamin W Tjepkes; Jason D Riddle
- 28 **Nest Site Selection of White-Tipped Doves in South Texas**
Kelton W Mote; Jordan C Giese; Heather A Mathewson; Thomas W Schwertner; Jeff B Breeden
- 29 **Parental Nest Behaviors of Least Terns and Piping Plovers in Response to Hatching Chicks**
Abby L Safford; Alicia K Andes; Susan N Ellis-Felege
- 30 **Winter Ecology and Behavior of Eastern Towhees in Central Kentucky**
Megan Martin; David Brown
- 31 **The Effectiveness of Point-Count Sampling and Line Transects for Measuring Population Density of Black Phoebes in Arcata, California**
Holly Gamblin; Alexander Benn
- 32 **Habitat Selection by American Woodcock during Fall Stopover on Cape May Peninsula, New Jersey**
Brian B Allen; Daniel G Mcauley; Erik J Blomberg; Ray E Brown; Chris Dwyer
- 33 **Northern Bobwhite Nesting Ecology in the Presence of Frequent Early Growing-Season Fire**
Sarah B Rosche; Christopher E Moorman; Christopher S Deperno; Jeffrey G Jones
- 34 **Assessing the Effects of Invasive Hybrid Cattails on the Spatial Distribution of Common Loon Nesting Sites**
Spencer L Wesche; Benjamin J O'Neal; Steve K Windels; Adam A Ahlers
- 35 **Nest-Site Selection and Nesting Success of Ruffed Grouse in Maine**
Joelle Mangelinckx; Erik J Blomberg; Samantha B Davis; Brad Allen; Kelsey Sullivan
- 36 **Influence of Anthropogenic and Environmental Factors on Arkansas State Park Avian Community Metrics**
Bennett Grooms; Rachael Urbanek
- 37 **Using Camera Technology to Validate Waterfowl Nest Monitoring Protocols**
Sam R Krohn
- 38 **Habitat Selection and the Effects on Male Ruffed Grouse Display Behavior and Performance in Central Maine, USA**
Samantha Davis; Erik Blomberg; Joelle Mangelinckx; Brad Allen; Kelsey Sullivan
- 39 **Avian Responses to Understory Fire Frequency in Oak Woodland**
Caitlin M Laughlin; Timothy J O'Connell; Stephen W Hallgren
- 41 **Population Abundance, Survival, and Harvest Rates of White-Winged Doves in Texas from Banding Data**
Joseph M Wilson; Heather Mathewson; Shaun Oldenburger; Mike Frisbie; Thomas W Schwertner
- 42 **Is Autumnal Display Associated with Territorial Defense Or Mate Prospecting? A Case Study with Spruce Grouse**
Joel M Tebbenkamp; Erik J Blomberg; Daniel J Harrison; Rebecca L Holberton
- 43 **Avian Responses to in Situ Energy Extraction in Peatlands**
Thea Carpenter; C Lisa Mahon; Erin M Bayne; Scott E Nielsen
- 44 **Community Membership and Territoriality in a Highly Diverse Assemblage of Andean Hummingbirds**
Rachel L Hanson; Brian S Arbogast

Tuesday, October 18

- 45 **Territory Characteristics of Cerulean Warblers in Northeast Iowa**
Chase H Grabau; Cory J Thielen; Jon W Stravers; Paul D B Skrade
- 46 **Evaluation of Microclimate Selection among Grassland Nesting Waterfowl**
Neal Martorelli; Joshua Stafford
- 47 **Determining the Temporal Nesting Ecology and Changes in Predator Communities of Wisconsin Greater Prairie-Chickens**
Rachel Konkle; Matthew Broadway; Jason Riddle; Scott Hull; Michael Hardy; Benjamin Zuckerberg
- 48 **Is Restoration Really Creating Heterogeneous Habitat for Quail**
Myca R Reed
- 49 **Waiting for Rain: A K-Selected Mammal in a Variable Environment**
Michaela F Rice; Kory Gann; Randall Deyoung; David Hewitt; Aaron Foley; Alfonso Ortega-S, Jr; Tyler Campbell
- 50 **A Population Assessment of American Red Squirrel Spatial Dynamics and Behavior in Unity, Maine**
Jennifer Meineke; Evan Donoso; Adrianna Bessenaire
- 51 **Microhabitat Use by a Mammal Community in a Central Hardwood Forest**
Brent S Pease; Eric J Holzmueller; Clayton K Nielsen
- 52 **Roosting Habits of the Eastern Small-Footed Bat in the Shawnee National Forest in Southern Illinois**
Kristi A Confortin; Timothy C Carter
- 53 **Behavioral Preferences within the Southern Resident Killer Whale Population**
Rylee Jensen
- 54 **The Effect of Sex and Seasonal Variation on Raccoon Home Ranges in Laramie, Wyoming**
Emily C Davis; Lauren Stanton; Sarah Benson-Amram
- 55 **Population Ecology of Mule Deer in Northeastern Oregon: Understanding the Fundamental Role of Nutrition**
Jennifer Merems; Ryan A Long
- 56 **Nest Attendance Patterns of Common Eiders at Wapusk National Park in Northern Manitoba**
Tanner Stechmann; Dave Illes; Andrew Barnas; Robert Rockwell; Susan N Ellis-Felege
- 57 **Small Mammal communities Respond to Elephant-Induced Changes to Savanna Vegetation**
Anne A Loggins; Robert A McCleery; Ara Monadjem; Brian Reichert
- 58 **Inbreeding Effects on Population Dynamics of the Florida Panther**
Anna Cole; Kelsea Anthony; Chris Chen; Hsiao-Hsuan Wang; Tomasz Koralewski; William Grant
- 59 **Quantifying Relationships between Environmental Conditions, Thermal Efficiency, and Use of Rest Sites by Pacific Martens in Lassen National Forest, California**
Marie E Martin; Katie M Moriarty; Patrick J Tweedy
- 60 **Diversity and Distribution of Mammals in Huascaran Biosphere Reserve**
Jessica Gilbert
- 61 **Impacts of Agriculture on Rodent Diversity**
Leanne Heisler
- 62 **The Effects of Oil and Gas Development on White-Tailed Deer Movements, Home Ranges, and Habitat Selection in the Western Dakotas**
Bailey S Gullikson; Katherine L Moratz; Eric S Michel; Jonathan A Jenks; William F Jensen
- 63 **Spatial Ecology of River Otters in Southern Illinois**
Alexander T Hanrahan; Andrew U Rutter; Clayton K Nielsen; Eric M Schaubert
- 64 **Bat Diversity, Richness, and Habitat Use in a Mixed Disturbance Landscape**
Jennifer Hollen; Karen Root
- 65 **Winter Diet of West Virginia Bobcats**
Jordan E Roof
- 66 **Ecology of the Eastern Spotted Skunk in Florida's Dry Prairie Ecosystem**
Stephen N Harris; Terry J Doonan; Erin L Hewett Ragheb; David S Jachowski
- 67 **Development and Application of Population Genomic Tools for Conservation and Management of Wyoming Pronghorn**
Melanie Lacava; Roderick B Gagne; Sierra M Love Stowell; Holly B Ernest

Tuesday, October 18

- 68 **An Evaluation of Elk Movements on the Northern Great Plains**
Jacqueline Amor; Jay Boulanger; Bill Jensen
- 69 **Mitigating Wildlife Impact on Bottomland Hardwood Forest Restoration Efforts in East Texas**
Ryan J Jacques; Christopher E Comer; Jeremy P Stovall; Hans M Williams; Matt E Symmank
- 70 **Potential Genetic Markers for Bold or Aggressive Behaviors in the Coyote**
Ashley Wurth; Jean Dubach; Stan Gehrt
- 71 **Carrying Capacity of Habitat for Moose in Adirondack Park, New York**
Samuel S Peterson; Jeremy E Hurst; Jaqueline L Frair
- 72 **Influence of Bark Beetle Epidemic on Elk and Hunter Movements and Interactions**
Bryan Lamont; Kevin Monteith; Tony Mong; Jerod Merkle; Matt Hayes; Matthew Kauffman
- 73 **Swamp Rabbit Response to Stand Conditions in Bottomland Hardwood Forests**
Elizabeth M Hillard; Clayton K Nielsen; John W Groninger
- 74 **Using Fasting Status to Evaluate the Nutritional Stress Hypothesis in Steller Sea Lion Pups**
Stephanie G Crawford; Lorrie D Rea; Robert H Coker
- 75 **Maternal Trade-Offs in Habitat Selection across Scales Influence Calf Survival**
Jodi E Berg; Evelyn Merrill; Mark Hebblewhite
- 76 **Quantifying Animal Personality for Free-Ranging Wildlife: Influence on Habitat Selection and Response to Predators**
Selection and Response to Predators
Megan M Whetzel; Charlotte R Milling; Miriam A Hernandez; Laura A McMahon; Janet L Rachlow; Jennifer S Forbey; Lisa A Shipley; Timothy R Johnson
- 77 **Comparing Confined vs. Free Ranging Ruffed Lemurs in Seasonal Housing: Is Welfare Impacted by Housing?**
Melissa Siegel
- 78 **Examining Behavioral Syndromes in Coyotes through Novel Object Testing**
Katie Robertson; Shane Mckenzie; Chris Anchor; Stanley Gehrt
- 79 **Large Scale Monitoring for a Cryptic and Understudied Species, the Eastern Spotted Skunk**
Robin Y Eng; Joseph W Butfiloski; Colleen Olfenbuttel; Nikole Castleberry; Katrina Morris; David S Jachowski
- 80 **Black Bear Diets in Maine: Comparisons between Camera Collar and Scat Data**
Colby Denison; Hailey Glasko; Trina Wantman; Joe Moran; Jonah Gula; George Matula; Jennifer A Clarke
- 81 **Assessing River Otter Occupancy in New York State Utilizing Camera Trapping and Floating Platforms**
Kelly M Powers; Jacqueline Frair; Andrew Macduff
- 82 **Impacts of Gillnet Entanglement on Population Trends of Dusky Dolphins**
Aminta Arelvilca; Samantha Murray; Marissa Ortega; Sara Stephens
- 83 **Population Genetics of American Black Bears in Georgia, USA**
Michael J Hooker; Annaliese K Ashley; Michael J Chamberlain
- 84 **Population Size and Genetic Connectivity within a Fragmented Population of Brown Bears in Eastern Turkey**
Mercede P Shaw; Mark W Chynoweth; Çağan H Şekercioğlu
- 85 **Role of Harvest and Environmental Factors on Horn Size of Wild Sheep**
Tayler Lasharr; Ryan Long; Jim Heffelfinger; Terry Bowyer; Vernon Bleich; Paul Krausman; Kevin Monteith
- 86 **Habitat Selection and Home Range of Appalachian Cottontail in High-Elevation Habitats in the Southern Appalachians**
Allison M Moser; Corinne A Diggins; Alexander Silvis; W Mark Ford
- 87 **Quantifying the Historic Range of an Endangered Burrowing Rodent**
Abby Rutrough; William T Bean
- 88 **Seasonal Changes in Diet Composition of Roosevelt Elk in Coastal Habitats of Northern California**
Emily Aarsvold
- 89 **Population Demographics of Mule Deer in the Blue Mountains of Oregon: Adult Female and Neonate Survival**
Nathan J Jackson; Kelley M Stewart; Danielle Walsh; Darren Clark
- 90 **The Weasel Coat Color Molt: Phenological and Physiological Responses to Climate Change**
Brandon M Davis; L Scott Mills; Roland Kays; Krishna Pacifici; Roger A Powell

Tuesday, October 18

- 91 **The Importance of Thermal Refugia to Large Herbivores in a Changing Climate: The Impact of Body Size**
Elyce N Gosselin; Savannah A Kollasch; Warren P Porter; Robert M Pringle; Ryan A Long
- 92 **A Changing Community? The Effects of White-Nose Syndrome on Bat Community Structure in the Southeastern United States**
Katherine D Teets; David Jachowski; Susan Loeb; John Kilgo; W Mark Ford
- 93 **Comparing Methods of Assessing Intermediate Migratory Behaviors**
Kristin J Barker; Michael S Mitchell; Kelly M Proffitt
- 94 **Snowshoe Hare Physiological Response to Environmental Enrichment**
Rebecca E Venezia; Diana Lafferty; Klaus Hackländer; Rupert Palme; L Scott Mills
- 95 **Urbanization's Impacts on Bats in White Nose Syndrome Positive Region**
Shannon Pederson
- 96 **Spatial Heterogeneity in Density of Gray Wolves within the Chernobyl Exclusion Zone**
Sarah C Webster
- 97 **Predicting Habitat Use by Bats to Protect Bats and Inform Wind Energy Development**
Clarissa A Starbuck; Carol L Chambers
- 98 **Understanding Mechanisms of Diet Selection in White-Tailed Deer**
Jacob Dykes; Marcus A Lashley; Bronson Strickland
- 99 **Characteristics of Reproductive Den Clusters Relative to Annual Home Ranges of Female Fishers in the Southern Sierra Nevada**
Rebecca E Green; Kathryn L Purcell; Craig M Thompson; Douglas A Kelt
- 100 **An Analysis of Items Carried in the Mouths of Carnivores**
Rebecca Much; Jesse Lewis; Ashley Gramza; Kevin Crooks
- 101 **Identifying Home Range and Resource Selection Patterns of a Reintroduced Elk Population: Black River State Forest, Wisconsin**
Travis Bryan
- 102 **Assessment of Niche Separation of Two Sympatric Ursids**
Amy C Macleod; Katherine C Kendall; Mark Edwards; Scott Nielsen
- 103 **Evaluation of the Deadwood Bighorn Sheep Herd Translocation**
Ty Werdel; Jonathan A Jenks; John Kanta; Chad Lehman
- 104 **The Influence of Mining Activity on a Hibernating Bat Population in Wisconsin**
Jennifer Summers; Christopher Yahnke
- 105 **Economic Effects of White-Nose Syndrome in Bats on Non-BT Corn in Western Kentucky**
Madeline R Heredia; Jordan Robbins; Joe N Caudell
- 106 **Detection Probability Differences within the North American Bat Monitoring Program (NAbat)**
Kevin A Parker; Han Li; Matina Kalcounis-Rueppell
- 107 **Occupancy and Maternal Roost Selection of the Northern Long-Eared Bat in the Lakes States Region**
Brenna A Hyzy
- 108 **Resource Selection of the Southeastern Pocket Gopher in Southeast Alabama**
Mary Bennett; Robert Gitzen; Michael Barbour
- 109 **Quantifying the Impacts of Invasive Hybrid Cattails on the Spatial Distribution of Muskrats**
Max L Larreur; Steve W Windels; Adam A Ahlers
- 110 **Do Differences in Temperament of Sympatric Lemming Species Explain Predation Risk?**
Kaylee Busniuk; Douglas Morris
- 111 **Using Genomics and Geometric Morphometrics to Explore the Adaptations of Bobcats to Diverse Ecosystems**
Jennifer C Broderick; Sarah E Sprauer; Jan E Janecka
- 112 **Determining Species-Specific Nightly Bat Activity in Sites with Varying Urban Intensity**
Sarah Schimpp; Han Li; Matina Kalcounis-Rueppell
- 113 **Ecology of Black Bears in Urban/Suburban Habitats**
Jennifer Strules; Nicholas P Gould; Christopher S Deperno; Colleen Olfenbuttel

Tuesday, October 18

- 114 **Outfoxing Shorebird Predators: Red Fox Population and Spatial Ecology in Areas of Differing Predator Management on Fire Island, New York**
Kathleen Miles; Matt Kynoch; Caitlin Kupferman; Sarah Karpanty; Jim Fraser; Dan Catlin
- 115 **Can We Predict Dispersal in Yellow-Bellied Marmots Using Behavioral Observations and Physiological Traits?**
Tiffany C Armenta
- 116 **Seasonal Changes in Diet of Eastern Gray Squirrels**
Sarah B Wilson; Robert A Gitzen; Todd D Steury
- 118 **Resource Selection by Red Fox in a Human-Dominated Landscape**
Chee Pheng Low
- 119 **Identification of Corridors for Natural Black Bear Recolonization of East Texas**
Caitlin Glymph
- 120 **Wildlife Implications across Snag Treatment Types in Jack Pine Stands in Eastern Upper Michigan**
Shelby A Weiss; R Gregory Corace, III; Eric L Toman; Daniel A Herms
- 121 **Interactions between White-Tailed Deer and Vegetation in Southern Illinois**
Ryan E Leeson; Clayton K Nielsen; Devon C Oliver; Eric J Holzmueller; William J Banz
- 122 **Examining the Southern Great Plains for Hotspots of At-Risk Species and Assessing Efficacy of a Decision Support Tool**
Demi M Gary; Kerry Griffis-Kyle
- 123 **Application of GIS, Bathymetry and Long-Term Hydrological Data to Identify Critical Biological Requirements of Bald Cypress for Habitat Improvement in Kentucky Lake**
Christy M Soldo
- 124 **Ecology of Tammany Creek: A Preliminary Study for Watershed Restoration**
Randi M Bowman
- 125 **Re-Thinking Regal Fritillary Conservation and Management: Habitat Characteristics and the Impact of Disturbance Regime on an Imperiled Grassland Butterfly**
Kelsey E McCullough; Gene Albanese; David A Haukos
- 126 **Habitat Use and Seasonal Movements of Sika Deer in the Japan's Largest Wetland Ecosystem, Kushiro-Shitugen, Hokkaido**
Ryoto Yoshida; Hino Takafumi; Atsuki Sato; Tatsuya Kamii; Mamoru Igarashi; Hiroyo Uehara; Hiroyuki Uno; Yoshihiro Inatomi; Mayumi Ueno; Satoshi Kobayashi; Takunari Murai; Rika Akamatsu; Yasuyuki Tachiki; Tsuyoshi Yoshida
- 127 **Response of Native Texas Milkweeds to Soil Nutrients, Light, and Drought**
Ursula Alvarado-Miller
- 128 **Deer in Prison? Investigating the Effect of Barriers on Genetic Structuring of White-Tailed Deer**
Sheila C Harris; Darren M Wood; Amy B Welsh
- 129 **Zooplankton Community in the Delaware Bay during Summer: Spatial Distribution and Environmental Correlates**
Nathan A Tillotson; Adam T Wickline; Jonathan H Cohen
- 130 **Can Vegetation Characteristics Indicate Habitat Quality for White-Tailed Deer?**
Donald P Chance; Johannah R McCollum; Garrett M Street; Marcus A Lashley
- 131 **Camera Trap Limitations: Quantifying Error Rates and Assessing Impacts on Animal Behavior**
Deaja Sanders; Brandon Davis; Diana Lafferty; L Scott Mills
- 132 **Comparing the Effects of Duck Ingestion and Natural Cold Stratification on Bulrush Seed Dormancy Loss**
Bret N Mossman
- 133 **Effects of Post-Wildfire on Abundances of Green Tree Frogs Using PVC Pipes As Artificial Refuges in Burned and Unburned Areas Near Bastrop, Texas**
Thanchira Suriyamongkol; Kaitlyn Forks
- 134 **Selection of Ephemeral Pools for Oviposition by Pacific Chorus Frogs**
Rebecca C Watling; Mary E McDermott
- 135 **Population Viability Due to Edge Effects and Batrachochytrium salamandrivorans Susceptibility**
Erin K Phillips
- 136 **Microhabitat Evaluation for Northern Mexican Gartersnakes at Bubbling Ponds Hatchery**
Tiffany A Sprague; Heather L Bateman; Erika M Nowak

Tuesday, October 18

- 137 **The Effects of Heavy Traffic Noise on the Production of Corticosterone in Squirrel Tree Frogs**
Robert Cromer; Barbara Harris
- 138 **Population Dynamics of Gopher Tortoises on Cumberland Island National Seashore**
Thomas K Moore; Alexandria Gagne; Dr John Enz; Doug Hoffman; Dr Dave Unger
- 139 **Patterns of Detectability among Anurans in Three Habitat Types of Everglades National Park**
Jeanelle L Brisbane; Charmaine Pedrozo; Christina M Romagosa; Nichole Bishop; Ray Carthy; Brian J Smith
- 140 **Assessing Extinction Threats of the Houston Toad: Effects of Sex Ratio Disparity**
Rebecca Aden; Lela Culpepper; Hsiao-Hsuan Wang; Ivani Mali; William Grant; Michael Forster
- 141 **Effects of Habitat Characteristics on Northern Water Snake Distribution in Maine**
Anthony J Pawlicki; Malcolm L Hunter
- 142 **Survival of Headstarted and Non-Headstarted Hatchling Blanding's Turtles in Southern Wisconsin**
Andrew J Ibach; Joshua M Kapfer
- 143 **Long-Term Response of Herpetofauna to Fire and Understory Removal Fuel Reduction Treatments**
Amanda Heh; Cathryn Greenberg; Christopher Moorman
- 144 **Longevity in the Eastern Red-Spotted Newt in a Population with Residents and Migrants**
Kayla M Sherman
- 145 **Predictive Spatial Modeling for a Rare Tennessee Anuran: Barking Treefrog**
Nyssa R Hunt; Andy Carroll; Thomas P Wilson
- 146 **Space Use by Herpetofauna across Levels of Biological Organization Using Diversity Indices and Utilization Distributions**
Johannah R McCollum; Don P Chance; Marcus A Lashley; Garrett M Street
- 147 **Individual Nesting Strategies within a Population of Eastern Fence Lizards**
Madison M Feiste
- 148 **Effects of Environmental Factors on the Abundance of Introduced Rough-Skinned Newt Populations in Moscow, Idaho**
Courtney Flynn
- 149 **A Distribution Modeling Approach to Monarch Butterfly Density, Host Plant Occurrence and Preferred Habitat in the Flint Hills**
Caroline Skidmore; Kelsey McCullough; Gene Albanese; David Haukos
- 150 **Ecological Viability of New York Habitats for the Reintroduction of the Federally Endangered American Burying Beetle**
Briana J All; Carmen Greenwood; Matthew Dobbs; Danielle Heller; Gregory Strait; Frederick Valkenburgh
- 151 **Predicting Movement Patterns of Vertebrates Using Road and Visual Surveys**
Lauren Jonaitis; Karen Root
- 152 **Estimating White-Tailed Deer Populations within Albert & Bessie Kronkosky State Natural Area: Considerations for Future Management**
Victoria Makar
- 153 **Does Prey Availability, Competition, Or Land-Use Change the Structure of Carnivore Communities Across Urban Gradients?**
Kyle R Wait; Adam A Ahlers
- 154 **Monitoring Cougar Activity Using Remote-Sensor Cameras in the Intermountain West**
Margaret A Hallerud; Daniel Johnson
- 155 **Unraveling Community Dynamics and Structure of Natural Rock Pools along the Penobscot River**
Chase Gagne; Hamish S Greig
- 156 **Endangered Hawaii: Assessing Threats That Impact Federally Listed Species in This Biologically Unique Area**
Alexander M Sandercock; Kayli L Thomas; Delaney M Constante; Kelsi P Nagy; Amanda J Dziedzic; Hannah M Brown; Courtney E Check; Tyler C Treakle; Jessica C Evans; Ann M Rydberg; Maggie A Hollingsworth; Isabel T Ritrovato; Rachel D Caron; Matthias Leu; Aaron M Haines
- 157 **Quantifying Factors That Impact Federally Listed Threatened and Endangered Species**
Kayli L Thomas; Alexander M Sandercock; Kelsi P Nagy; Amanda J Dziedzic; Delaney M Costante; Hannah M Brown; Jessica C Evans; Tyler C Treacle; Maggie A Hollingsworth; Ann M Rydberg; Isabel T Ritrovato; Rachel D Caron; Mathias Leu; Aaron M Haines

Tuesday, October 18

- 158 **Environmental Knowledge Resources: Trailing Conservation Information in the Maze of Governance and Communication**
Adrienne R Strubb
- 159 **Effects of Prescribed Fire on Forest Structure in an Oak Landscape**
Miranda Thompson
- 160 **Long-Term Effects of Fire on Soft Mast Production in Restored Pine-Woodlands of Western Arkansas**
Tamara B Wood; Christopher E Comer; Brian P Oswald; Roger J Masse; Roger W Perry; Phillip N Jordan
- 161 **Eastern Box Turtle Habitat Use Relative to Prescribed Burns**
Shelby M Brown
- 162 **Temporal and Severity Influences on Elk Habitat Selection of a Mixed Severity Burn in Western Wyoming**
Travis Zaffarano
- 163 **North Dakota Deer Hunter Satisfaction, Success, and Demographics**
Kristen Black; Jason Boulanger; William Jensen
- 164 **Stakeholder Attitudes and Involvement in Habitat Conservation Plans and the Endangered Species Act**
Kyle Rodgers; Adam Willcox
- 165 **The Role of Social Values and Context in Shaping Human Interactions with Wildlife**
Colleen Hartel; Alia Dietsch
- 166 **How Hunter Identity Influences the Species They Seek**
Alisha Grams
- 167 **Varying Coyote Perceptions within the Hunting Community**
Moriah Boggess; Mark Turner; Michael Drake; Nils Peterson; Christopher Serenari; Colleen Olfenbuttel
- 169 **Duck, Duck, Goose: How Many Geese Does It Take for a Hunter to Be Satisfied?**
Taylor J Linder; Melissa Wuellner; Larry Gigliotti; Rocco Murano
- 170 **Evaluating the Household Dynamics of Wildlife Value Orientations**
Kalysha Clark; Katie Cupp; Crystal Phelps; Nils Peterson
- 171 **Examining the Effects of Urbanization on Avian Diversity along a Protected Riparian Corridor**
Tyler Gilvarry; Emily Sorenson; JJ Horns; Çağan Şekercioğlu
- 172 **Bushmeat Roulette**
Kathrine M McCarty; A Willcox; M Souza; R Omara; C Masembe; R Gerhold
- 173 **Evaluating the Effects of Min Oil Scents on Feral Hog Behavior and Populations at Cowden Plantation, Jackson, South Carolina**
Haley Flaherty; Samantha Hitchens
- 174 **Habitat Selection Patterns of Feral Pigs Inhabiting the Mississippi Delta**
Kelsey Paolini; Garrett Street
- 175 **Competition between Alien and Native Tree Squirrels in Italy: How Is the Introduction of Pallas's Squirrel Affecting the Native Eurasian Red Squirrel?**
Marina Morandini; Maria Vittoria Mazzamuto
- 176 **Current and Potential Distribution of Invasive Nutria in United States Wetlands: A Maxent Modeling Approach**
Dylan J Hilts
- 177 **Ecosystem Management and Fire Ants: How Do They Interact?**
Angelina Haines; Robert Gitzen; Christopher Lepczyk; Theron Terhune
- 178 **Predicting Change in Trophic Relationships for Arthropods Following Plant Invasion Using the Evolutionary Experience Hypothesis**
Adam B Mitchell; Douglas W Tallamy
- 179 **Do Far-Ranging Pet Cats Eat More Wildlife?**
Brandon W McDonald; Troi Perkins; Robb Dunn; Roland Kays; Robert Feranec; Lea Shell; Holly Menninger
- 180 **Movement and Reproductive Ecology of Female Wild Turkeys in Longleaf Pine Savanna Maintained with Prescribed Fire**
Jeremy D Wood; L Mike Conner; Bret E Collier; Michael J Chamberlain
- 181 **New Estimation Methods of White-Tailed Deer Recruitment in Wisconsin**
Beth Wojcik

Tuesday, October 18

- 182 **Factors Influencing White-Tailed Deer Fawn Recruitment in Alabama**
Jennifer Price; Stephen S Ditchkoff; Conor P McGowan
- 183 **Efficacy of Two GPS Technologies for Collecting Fine-Scale Data on a Semi-Fossorial Small Mammal**
Laura A McMahon; Janet L Rachlow; Jennifer S Forbey; Lisa A Shipley; Timothy R Johnson; Daniel H Thornton
- 184 **Environmental Factors Influence Measures of Physiological Stress in Snowshoe Hares**
Lindsay M Clontz; Diana J R Lafferty; Marketa Zimova; Klaus Hacklander; Rupert Palme; L Scott Mills
- 185 **Statistical Analysis of Trapping Biases Related to Red Backed Vole and Deer Mouse in Maine**
Kyle Shute E Shute; Connor Wood; Erik Blomberg
- 186 **Eyes in the Sky: First Use of Drones to Survey Lemurs in Northern Madagascar**
Brandon P Semel; Sarah M Karpanty
- 187 **Backscatter-Brained: Using Radar Imagery to Determine Wetland Inundation Patterns**
John O'Connell; Michael W Eichholz; Abigail G Blake-Bradshaw; Heath M Hagy
- 188 **Investigating Environmental Effects on Physiological Responses in Alligator Gar**
Andrew H House; Madison Earhart; Amanda Black; Chris Green; Federico Hoffman; Peter Allen
- 189 **Use of Google Maps and Street View to Facilitate Analysis in a Wildlife Vehicle Collision Study**
Gabrielle L Smith; James A Vance; Walter Smith
- 190 **Is Awareness Spatially Explicit in Black-Tailed Prairie Dogs, during Contagious Jump-Yipping Bouts?**
Elise Couillard; Dr James Hare
- 191 **Determining Behaviors through Three-Dimensional Accelerometry in American Black Bears**
Christina Muehlbauer; Jose B Mesa Cruz; Marcella J Kelly
- 193 **The Atlanta Coyote Project**
Robbie Ellwanger; Robert Stilz; Lawrence A Wilson; Christopher Mowry
- 194 **Distinguishing between Eurasian Wild Boar Hybrids and Feral Swine Using Molecular and Morphological Analyses**
Jason A Matthews; Joe N Caudell; Chris Trzepacz; Blake McCann
- 195 **White-Tailed Deer Fawn Survival Associated with Suburban Hunting**
Martin J Feehan; Paul D Curtis; Raymond E Rainbolt
- 196 **Effectiveness of .22 Caliber (5.5mm) Air Rifle Lead and Non-Lead Pellets on Small Nuisance Wildlife Based on Calibrated Ballistic Gelatin**
Tyler T Webb; Jacob T Whitehall; Joe N Caudell
- 197 **Influence of Habitat Factors on Trapping Success of Eastern Gray Squirrels in Clemson, South Carolina**
Bonnie Miller; Kristi M Dunn; William Bridges; Wayne Chao
- 198 **Effect and Effectiveness of Livestock Guard Dogs**
Daniel Kinka; Julie Young
- 199 **Human Density and Land-Use Effects on Raccoon Anthropogenic Food Consumption Determined by Stable Isotopes**
Andrew J Mallinak
- 200 **Evaluating Gene Expression in Chronic Wasting Disease Infected White-Tailed Deer**
Emma K Trone; Christopher N Jacques; James T Lamer; Paige Zick; Guoqing Lu; Paul A Shelton
- 201 **A Rise in Co-Infection Risk of Tick-Borne Diseases in Schmeckle Reserve, Wisconsin**
Celia D Hein
- 202 **Modelling Optimal Habitat for an Emerging Infectious Disease**
Melanie Torres
- 204 **Heavy Metal Concentrations in Wyoming Hummingbirds: An Assessment of Population Health and Status as Sentinel Species**
Braden L Godwin; Lisa Tell; Robert Poppenga; Holly Ernest
- 205 **Distribution, Prevalence, and Geographic Variation of Babesia spp. in Raccoons in the United States and Canada**
Kayla B Garrett; Michael J Yabsley; Justin D Brown; Hossain Farid; Renee Schott; Paul Oesterle; Nicole Nemeth; Sonia M Hernandez
- 206 **Identification Isolation and Control Agents of White Nose Syndrome Preliminary Results**
Kristina Burns; William E Stone; Jeanette Jones

Tuesday, October 18

- 207 **Mapping Urban Canid Health in Madison, Wisconsin**
Holly Hovanec
- 208 **Killing Them Softly: Does the Oral Contraception of Eastern Gray Squirrels Pose a Hidden Threat?**
Katie Adkins; Caroline Hitchner; Kay Hippler; Wayne Chao; Kristina M Dunn; William Bridges
- 209 **Comparing Inter- and Intrasexual Contact Patterns of White-Tailed Deer in the Context of Disease Transmission**
Lindsey R Perry; Eric M Schaubert; Clayton K Nielsen
- 210 **Preliminary Results of An Investigation of the Amphibian Chytrid Fungus, *Batrachochytrium dendrobatidis*, at Retention Ponds & Natural Wetlands In southeast Tennessee**
Paul-Erik M Bakland; Thomas P Wilson
- 211 **Parasite Prevalence of the South Dakota Nature Conservancy Free-Roaming American Bison**
Lisa D Zoromski
- 212 **Bioaccumulation of Selected Trace Elements and Radionuclides in Semiaquatic Mammals on the Savannah River Site**
Ernest J Borchert; Albert L Bryan; James C Beasley
- 213 **Predicting Stress Levels and Immune Function of Urbanized Birds**
Shannon E Curry; Sonia M Hernandez; Kristen J Navara; Robert J Cooper; Catharine N Welch
- 214 **Presence of Heavy Metals in Eared Grebes**
Jacqueline Olivera
- 215 **White-Tailed Deer Recruitment and Relative Predator Abundance in Western Maryland**
Eric Ness; Jacob L Bowman; Brian Eyler
- 216 **How Learning Is Affected by the Timing of a Live Animal**
Brittany H Smith
- 217 **The Development and Implementation of a Natural Science Living and Learning Community Utilizing the Biological Field Stations at the University of Tennessee at Chattanooga**
Erin A Schrenker; Margaret Dempsey; Alexandra Korshun; Ashton Mitchell; Richard Schwartz; Thomas P Wilson
- 218 **Rehabilitated Black Bears: A Comparative Study of Captive and Wild Behavior**
Patrick J Myers
- 219 **Resource Denial as a Means to Reduce Avian Predation of Greater Sage-Grouse**
Robert J Lewis; Michael Conover

Tuesday, October 18

CONTRIBUTED PAPERS**Session 50: Avian Community Ecology**

Location: 301B

Moderator: John Kilgo, USDA Forest Service, New Ellenton, SC

- 10:30 AM **A Model to Evaluate Barred Owl Removal Strategies for Northern Spotted Owl Conservation**
Ryan Baumbusch; Lowell Diller; Daniel Barton
- 10:50 AM **Dynamics of Community Assembly Depend on Disturbance Intensity and Avian Functional Traits**
Jack Giovanini; Andrew J Kroll; Jake Verschuyf; Matthew Betts
- 11:10 AM **Estimating Density of a Territorial Species in a Dynamic Landscape**
Damon B Lesmeister; Elizabeth M Glenn; Raymond J Davis
- 11:30 AM **Do Predator Guards on Nest Boxes Improve Reproductive Success of Birds?**
Robyn L Bailey; David N Bonter
- 11:50 AM **Perception Is Reality: Does the Biodiversity Metric of Choice Determine the Biodiversity Drivers?**
Kathryn E Battle; Krishna Pacifici; Jaime A Collazo

Session 51: Conservation and Ecology of Mammals II

Location: 302A

Moderator: Matina Kalcounis-Rueppell, University of North Carolina at Greensboro, Greensboro, NC

- 10:30 AM **Dine And Dash: The Effect Of Apex Predators On Cheetah Handling Time**
Anne Hilborn
- 10:50 AM **Integrating Local Knowledge into Large-Scale Assessment of Species Distributions: Case Study of the Jaguar Across Central America**
Lisanne Petracca; Jacqueline Frair; Jonathan Cohen; Ana Patricia Calderon; Javier Carazo-Salazar; Franklin Castañeda; Cordelia Che; Daniel Corrales-Gutierrez; Sandra Hernandez-Potosme; Luis Herrera; Lenin Obando-Sampson; Melva Olmos; Sandy Pereira; Howard Quigley; Nathaniel Robinson; Roberto Salom-Perez; Yahaira Urbina; Hugh Robinson
- 11:10 AM **No Signal of Eastern Coyotes Affecting White Tailed Deer Population Growth at Large Scale**
Eugenia V Bragina; Roland Kays; Christopher Moorman; Christopher DePerno; L Scott Mills
- 11:30 AM **Estimating Ocelot Population Density in Seven Study Sites Over Multiple Years in Belize, Central America**
Christopher B Satter; Marcella J Kelly
- 11:50 AM **Evaluating the Sensitivity of Density Estimates in a Spatial Capture-Recapture Model of Black Bears in the Northern Lower Peninsula of Michigan**
Jennifer Smith; David Williams; Mike Wegan; Dwayne Etter; William Porter

Session 52: Conservation Planning and Public Engagement

Location: 302B

Moderator: Liz Kalies, The Nature Conservancy, Durham, NC

- 10:30 AM **Herpmapper.org: A New Citizen Science Project for Worldwide Herpetofaunal Records**
Vanessa Lane; Donald Becker; Michael Pingleton; Christopher E Smith
- 10:50 AM **Elk Management in the National Park Service: Two Case Studies in the Use of Public Volunteers**
Jenny Powers; Rick Kahn; William Whitworth; John Mack; Ben Bobowski
- 11:10 AM **Exploring the Role of Emotions in Wildlife Management: Nest Monitors' Responses to Invasive House Sparrows**
Lincoln R Larson; Caren B Cooper; Mark E Hauber
- 11:30 AM **Northeast Region State Wildlife Action Plans - Informing Regional Action Through Species and Habitats of Greatest Conservation Need**
Elizabeth Crisfield; Karen Terwilliger; Northeast Fish and Wildlife Diversity Technical Committee
- 11:50 AM **Conserving Wildlife in Metropolitan Areas Through Science, Collaboration, and Planning**
George Hess; Andrew Albertsen; Bret Lang; Elaine McManus; Emilee Wooster; Janette Thompson; Troy Bowman; Emily Altrichter; Kristi Backe; Austin Dunn; Breanna Marmur; Allison Riley; Megan Serr; Katie Thomas; Michelle Ye

Tuesday, October 18

Session 53: Remote Sensing Applications

Location: 302C

Moderator: W. David Walter, USGS Pennsylvania Cooperative Fish and Wildlife Research Unit, University Park, PA

- 10:30 AM **A Ground-Based Lidar Test of GAP-Intercept Applications to Estimate Mean Shrub Height Within Greater Sage-Grouse Nesting Habitat**
Khodabakhsh Zabihi; Kenneth L Driese
- 10:50 AM **Shorebird Response to Remotely Sensed Flood Dynamics at an Important Stopover Site during Migration**
Danica Schaffer-Smith
- 11:10 AM **Airborne Lidar Applications in Small Mammal Research**
Aaron N Johnston; Erik A Beever; L Monika Moskal; W Matthew Vander Haegen; Steve D West; Thomas Millette
- 11:30 AM **Use of Lidar to Evaluate Alternative Habitat Thresholds for Conservation of an Endangered Woodpecker**
James E Garabedian; Christopher E Moorman; M Nils Peterson; John C Kilgo
- 11:50 AM **Changing the Way We Collect Wildlife Data Using Ultra High Resolution Aerial Remote Sensing**
Christian Newman; Stuart Clough; Mark Rehfisch

Session 54: Wildlife Education and Training

Location: 303

Moderator: Arielle Parsons, North Carolina Museum of Natural Sciences, Raleigh, NC

- 10:30 AM **Wildlife Agency and University Partnerships for Undergraduate Experiential Learning**
Erin M Patrick; Brett G Dunlap; Kristin Floress
- 10:50 AM **An Undergraduate Course to Prepare Students to Optimize Their Experience at the Wildlife Society National Conference**
Casey C Day; Patrick A Zollner; Elizabeth A Flaherty; Vanessa Quinn
- 11:10 AM **Lassoing Lizards, Trapping Turtles, and Snatching Snakes**
Ann Berry Somers; Aerin Benavides; Catherine Matthews
- 11:30 AM **Using Wildlife Cameras in the Classroom to Improve Student Learning Outcomes**
Catherine Tredick
- 11:50 AM **Cultivating Collaborations Across the Academic Hierarchy: Essential Training for the Next Generation of Wildlife Ecologists**
Diana J R Lafferty; Eugenia V Bragina; Lindsay Clontz; Brandon Davis; Kairsten Fay; Jennifer Feltner; Alexander V Kumar; De'Aja Sanders; Rebecca Venezia; Sarah Whitcher; Marketa Zimova; L Scott Mills

Session 55: Energy Development and Mammals

Location: 304

Moderator: Aimee Rockhill, North Carolina State University, Raleigh, NC

- 10:30 AM **Effect of Oil and Gas Development on the Survival and Health of White-Tailed Deer in the Western Dakotas**
Katherine L Moratz; Bailey S Gullikson; Eric S Michel; Daniel M Grove; Jonathan A Jenks; William F Jensen
- 10:50 AM **Increases in Residential and Energy Development Are Associated with Reductions in Mule Deer Recruitment Across Western Colorado**
Heather E Johnson; Jessica R Sushinsky; A Holland; Eric J Bergman; Trevor Balzer; James Garner; Sarah E Reed
- 11:10 AM **Do Fatalities at Wind Energy Facilities Threaten North American Populations of Hoary Bats?**
Erin F Baerwald
- 11:30 AM **Reductions in Bat Mortality at Wind Facilities Vary Depending on Operational Curtailment Strategy**
Greg Forcey; Lauren Hooton; Crissy Sutter

Tuesday, October 18

PANEL DISCUSSION**Session 56: Interactions of Human-Caused Mortality, Genetic Introgression, and Management among Wild Red Wolves in NC**

Organizers: Krishna Pacifici, North Carolina State University, Raleigh, NC; Scott Mills, North Carolina State University, Raleigh, NC; Roland Kays, North Carolina Museum of Natural Sciences and North Carolina State University, Raleigh, NC

Time: 10:30 AM

Location: 305B

CONTRIBUTED PAPERS**Session 57: Conservation and Ecology of Reptiles and Amphibians**

Location: 301A

Moderator: Seth Riley, Santa Monica Mountains National Recreation Area, Thousand Oaks, CA

1:10 PM **Field Application of Individual Identification of American Crocodiles in Belize.**

Miriam N Boucher; James T Anderson; Marisa Tellez; Alexander Doyle

1:30 PM **Using Environmental DNA to Model Occupancy and Detection of the Columbia Spotted Frog in the Great Basin, USA**

Matthew M Smith; Caren S Goldberg

1:50 PM **Comparing Neonate Survivorship and Growth of Mojave Desert Tortoises Under 3 Head-Start Treatments**

Jacob A Daly; Kurt A Buhlmann; Brian D Todd; Clinton T Moore; John M Peadar; Max M Kern; Tracey D Tuberville

2:10 PM **Linking Multiple Data Sources to Understand Factors Affecting Spotted Salamander Population Abundance**

Courtney L Davis; Eric W Teitsworth; David Aw Miller

2:30 PM **Investigating the Status of a Declining Amphibian Within a Large Protected Area: Hellbenders in Great Smoky Mountains National Park**

Stephen F Spear; Michael Freake; Shem Unger; Lori A Williams; John D Groves

2:50 PM Break

3:20 PM **Environmental Covariates as Predictors of Anuran Distribution in Great Lakes Coastal Wetlands**

Bridget A Wheelock; Thomas M Gehring; Donald G Uzarski; Gerald J Niemi; Doug C Tozer; Robert W Howe; Christopher J Norment

3:40 PM **Spatial and Temporal Variation in Abundance of Canyon Treefrogs in Desert Mountain Canyons**

Erin R Zylstra; Robert J Steidl; Don E Swann; Blake R Hossack

4:00 PM **Developing a Standardized Sampling Protocol to Survey Amphibians in Missouri Wetlands**

Julia A Guyton; Elisabeth Webb; Craig Paukert; Frank Nelson

4:20 PM **Maintaining Long Distance Migration in Giant Galapagos Tortoises**

Stephen Blake; Guillaume Bastille-Rousseau; Fredy Cabrera; Sharon Deem; James Gibbs; Charles Yackulic

4:40 PM **Giants on the Move: Environmental Dynamics, Resource Selection Patterns and Movement Strategies of Galapagos Tortoises**

Guillaume Bastille-Rousseau; James P Gibbs; Charles B Yackulic; Jacqueline L Frair; Freddy Cabrera; Stephen Blake

Session 58: Conservation and Ecology of Wildlife Communities I

Location: 301B

Moderator: Indrani Sasmal, North Carolina State University, Raleigh, NC

1:10 PM **Sexual Segregation, Prey Switching and Functional Response of Mountain Lions in a Hunted Population**

Jon Keehner; Robert Wielgus

1:30 PM **Co-Existence and Temporal Overlap of Mesocarnivores in Central and Southern Appalachia**

Emily D Thorne; Charles D Waggy; David S Jachowski; Marcella J Kelly; W Mark Ford

1:50 PM **Kittycams to Understand the Effects of Free-Roaming Colony Cats on Wildlife**

Sonia M Hernandez; Clym Gatrell; Alexandra Newton; Mark Gallagher; Kyler Abernathy; Kerrieanne Loyd

Tuesday, October 18

- 2:10 PM **Spatio-Temporal Changes in Minnesota's Carnivore Community**
Fabiola Iannarilli; John R Fieberg; John D Erb; Todd Arnold
- 2:30 PM **Spatio-Temporal Patterns of Anthropogenic Threats to Wildlife in Nyungwe National Park, Rwanda**
Jennifer F Moore; Michel K Masozera; James D Nichols; Madan K Oli
- 2:50 PM Break
- 3:20 PM **A Macroecological Perspective on Strategic Bat Conservation in the US National Park Service**
Thomas J Rodhouse; Thomas Philippi; William Monahan; Kevin Castle
- 3:40 PM **Habitat Use by Mammals of an Alaska Alpine Community**
Jeremy S Dertien; Calvin Bagley; John Haddix; Aleya Brinkman; Elizabeth Neipert; Paul F Doherty, Jr
- 4:00 PM **Mesopredator Distribution to Determine Primary Northern Bobwhite Nest Predators**
Kristyn G Stewart; Matthew W Poole; Kara B Campbell; Heather A Mathewson
- 4:20 PM **Threats of Rapidly Expanding Transportation Infrastructure to African Wildlife**
Samuel Kasiki
- 4:40 PM **Scenario Planning for Deer Wintering Complexes in an Uncertain Climate**
Christopher L Hoving; William Porter

Session 59: Genetics in Mammals Conservation

Location: 302A

Moderator: Duane Diefenbach, U.S. Geological Survey, University Park, PA

- 1:10 PM **Consequences for Conservation: Population Density and Genetic Effects on Reproduction of an Endangered Lagomorph**
Stephanie M Demay; Penny Becker; Lisette Waits; Timothy Johnson; Janet Rachlow
- 1:30 PM **Improving Resolution of Population Genetic Estimates of Pumas within an Urbanized Landscape**
Roderick B Gagne; Winston T Vickers; Patricia E Salerno; Daryl R Trumbo; W Chris Funk; Jeffrey A Sikich; Seth PD Riley; Walter M Boyce; Holly B Ernest
- 1:50 PM **Effect of Environmental Exposure Time and Collection Method on DNA Analyses of Equid Fecal Samples**
Sarah R King; Kathryn A Schoenecker; Jenny Fike; Sara J Oyler-McCance
- 2:10 PM **Effects of Roost Removal on Social and Genetic Aspects of Northern Long-Eared Bat Maternity Colony Dynamics**
Alexander Silvis; Miluska Hyde; Eric M Hallerman; W Mark Ford; Eric R Britzke
- 2:30 PM **Recolonization Characteristics of a Reintroduced Black Bear Population Based on Noninvasive Genetic Spatial Capture-Recapture Methods**
Sean M Murphy; John J Cox; Ben C Augustine; John T Hast; Joseph M Guthrie; Jayson Plaxico; John Wright
- 2:50 PM Break
- 3:20 PM **Genetic Consequences of Recolonization by Black Bear into the Western Great Basin**
Jason L Malaney; Carl Lackey; Jon Beckmann; Marjorie Matocq
- 3:40 PM **Genetic Analysis of Population Structure of White-Tailed Deer in Iowa**
Lynne C Gardner; Whitney Briggs; Julie A Blanchong
- 4:00 PM **Genetic Connectivity of Mountain and Coastal Populations of American Black Bear in South Carolina**
Elizabeth M Kierepka; Tammy Wactor; Olin E Rhodes Jr
- 4:20 PM **Landscape Genetics of Muskrat Populations in North Dakota**
Samuel Hervey; Shay Erickson; Susan Ellis-Felege; Stephanie Tucker; Brian Darby
- 4:40 PM **How Might the Population Genetic Structure of Little Brown Bats Across North America Impact the Spread of White Nose Syndrome?**
Cassandra Miller-Butterworth; Amy Russell; Greg Turner; Maarten Vonhof

Tuesday, October 18**Session 60: Human Dimensions and Hunting**

Location: 302B

Moderator: Nils Peterson, North Carolina State University, Raleigh, NC

- 1:10 PM **Human Dimensions of Mid-Size Predator Management: A Case Study of Indiana**
Zoe E Glas; Linda S Prokopy
- 1:30 PM **Factors Impacting Hunter Access to Private Lands in Southeastern Minnesota**
Eric M Walberg; Louis J Cornicelli; David C Fulton
- 1:50 PM **The "New" Hunter: Myth, Reality and Motivation**
Michael Quartuch; Daniel Decker; Richard Stedman; William Siemer; Michael Schiavone
- 2:10 PM **Predicting Private Landowner Hunting Access Decisions: Implications for Hunter Density and Distribution**
Conner R Burke; Nils Peterson; Chris Moorman; Chris DePerno; David Sawyer
- 2:30 PM **Who Wants More Development? Predicting Anglers' Preferences for Developed Fishing Sites**
Rene X Valdez; Michael Drake; Conner Burke; Nils Peterson; Christopher Serenari; Andrew Howell
- 2:50 PM Break
- 3:20 PM **Applying Waterfowl Harvest Data to Determine Efficacy of Steel Shot**
Craig A Miller
- 3:40 PM **How Likely Are We to Impact Hunter Satisfaction with White-Tailed Deer Management Strategies: A Bayesian Approach to Estimating Effects of Management on Hunter Satisfaction?**
Amy L Silvano
- 4:00 PM **Hunting as a Social-Ecological System: The Case of Turkey Hunting**
David Fulton; Susan Schroeder; Louis Cornicelli
- 4:20 PM **Perceptions of Impacts and Control of Feral Hogs on Private Lands in South Carolina**
Shari Rodriguez; Gary Pence; Matthew Bolick
- 4:40 PM **Urbanites, Urban Hunters, and Urban Coyotes: Differing Perceptions of Carnivores in Urban Areas**
Michael D Drake; M Nils Peterson; Colleen Olfenbuttel; Christopher E Moorman; Christopher S DePerno

Session 61: Invasive Species Ecology and Management

Location: 302C

Moderator: Mark Vukovich, USDA Forest Service-Southern Research Station, New Ellenton, SC

- 1:10 PM **Burmese Pythons and Urbanization Shape the Meso-Mammal Community in the Everglades**
Brian E Reichert; Adia R Sovie; Kristen Hart; Rena R Borkhataria; Mathieu Bonneau; Robert McCleery
- 1:30 PM **What Governs Responses of Animals to Plant Invasions?**
Andrea Litt
- 1:50 PM **Feral Swine Movement in Michigan, United States of America**
Steven M Gray; Gary J Roloff; Robert A Montgomery; Kurt C Vercauteren; Michael T Wegan; Dwayne R Etter
- 2:10 PM **Response of Feral Swine to the Seasonal Availability of Wild Turkey Nests**
Heather N Sanders; Nathan P Snow; David G Hewitt; Kurt C Vercauteren; Humberto L Perotto-Baldivieso
- 2:30 PM **Predation of Artificial Nests by Introduced Rhesus Macaques in Central Florida**
C Jane Anderson; Mark E Hostetler; Steven A Johnson
- 2:50 PM Break
- 3:20 PM **Mapping of *Phragmites australis* Using 5-Band Imagery Collected from an Unmanned Aerial System**
Gray Turnage; Sathishkumar Samiappan; Lee Hathcock; Robert Moorhead
- 3:40 PM **Comparison of Population Abundance and Density Estimators Under Field and Simulated Conditions**
David A Keiter; Amy J Davis; Fred L Cunningham; Olin E Rhodes, Jr; John C Kilgo; Kim L Pepin; James C Beasley
- 4:00 PM **Genetic Engineering for Conservation: A Policy Framework for Eradicating Invasive Rodents with Gene Drive Technology**
Gregory A Backus; Caroline Leitschuh; Megan Serr; Rene Valdez

Tuesday, October 18

- 4:20 PM **Behavioral Character Displacement and Territoriality of an Isolated Endangered Species Under Invasion**
Jonathan J Derbridge; Pizza Ka Yee Chow; John L Koprowski
- 4:40 PM **The Negative Impacts of the Invasive Mute Swan on Submerged Aquatic Vegetation in Great Lakes Coastal Wetlands**
Nicole J Wood; Thomas M Gehring; Donald G Uzarski
- Session 62: Mammal Habitat Selection**
- Location: 303
- Moderator: Jonathan Shaw, NC Wildlife Resources Commission, Richlands, NC
- 1:10 PM **Walrus Resource Selection in the Chukchi Sea: Interactions Among Prey and Sea Ice Availability**
William S Beatty; Chadwick V Jay; Anthony S Fischbach; Jacqueline M Grebmeier; Rebecca L Taylor; Arny L Blanchard; Stephen C Jewett
- 1:30 PM **Home Range and Habitat Selection of Raccoons in a Longleaf Pine Forest Before and after Hardwood Removal in Southwestern Georgia**
Ronald B Kirby; Michael J Cherry; Lisa I Muller; Michael Chamberlain; L Mike Conner
- 1:50 PM **Fine-Scale Selection of Winter Cover Habitat by Sympatric New England and Eastern Cottontail**
Kelly O'Connor; Tracy Rittenhouse; Howard Kilpatrick
- 2:10 PM **Selection of Parturition Sites by Mule Deer in an Arid Environment**
Kelley M Stewart; Anthony P Bush; Levi Heffelfinger; Neal W Darby; Vernon C Bleich
- 2:30 PM **Black and White Rhino Space Use and Resource Selection in the Low Veld of South Africa**
Melissa J Merrick; John L Koprowski; Craig Spencer; Michael Stokes
- 2:50 PM Break
- 3:20 PM **Microhabitat Conditions Rather Than Landscape Patterns Affect Post-Dispersal Seed Removal in Burned and Unburned Lodgepole Pine Forests**
Catherine F Frock; Monica G Turner
- 3:40 PM **Distribution and Habitat Selection by Cougars and Black Bears in Big Bend National Park, Texas**
Skyler Stevens; Catherine C Dennison; Michael Stangl; Raymond Skiles; Patricia M Harveson
- 4:00 PM **Habitat Selection of Reintroduced Bison in Northern Illinois**
Julia C Brockman; Clayton K Nielsen; Jeffery W Walk
- 4:20 PM **Preferences of Andean Bear Females for Natal Dens and Den Sites in the Seasonally Dry Tropical Forest of NW Peru**
Russ Van Horn; James Sheppard; Megan Owen; Robyn Appleton; Isaí Sanchez; Javier Vallejos; Jose Vallejos; Ron Swaisgood
- 4:40 PM **Behavioral Phenotypes, Female Reproductive Success, and Juvenile Habitat Selection: Insights From a Semi-Fossorial, Social Rodent**
Allyssa L Kilanowski; John L Koprowski

Tuesday, October 18

SYMPOSIUM

Session 63: Large Predator Restoration and Management in North America-Part II

Organizers: Michael Cherry, Joseph W. Jones Ecological Research Center, Newton, GA; David Shindle, U. S. Fish and Wildlife Service, Immokalee, FL

Supported by: U. S. Fish and Wildlife Service

Location: 304

1:10 PM **Complicated Ecologies and Cougar Management in Washington**

Robert B Wielgus

1:30 PM **Evolving Cougar Management in the West: Applying Biology and Science with Human Values**

Kenneth A Logan

1:50 PM **Spatiotemporal Interactions of Florida Panthers and Their Primary Prey**

Daniel A Crawford; Michael J Cherry; Brian D Kelly; Richard B Chandler; Karl V Miller; Elina Garrison; David Onorato; L Mike Conner; David Shindle

2:10 PM **Developing a Monitoring Program for Large Carnivores: A Case Study Involving the Louisiana Black Bear**

Jared S Laufenberg

2:30 PM **Efficient Monitoring of Unmarked Predator and Prey Populations by Combining Camera and Telemetry Data**

Richard B Chandler; Michael J Cherry; Karl V Miller; L Mike Conner; Robert J Warren; Elina Garrison; David Shindle; Brian Kelly; Daniel A Crawford

2:50 PM Break

3:20 PM **Indirect Effects of Predators on Prey Populations**

Michael J Sheriff

3:40 PM **Long Term Implications of Genetic Restoration for the Florida Panther**

Dave Onorato

4:00 PM **Numbers Aren't Everything: The Importance of Genetic Management in the Captive and Experimental Mexican Wolf Populations**

Maggie Dwire

4:20 PM **Interactions between Demography, Genetics, and Landscape Connectivity Increase Extinction Probability in a Small Population of Large Carnivores in a Major Metropolitan Area**

John F Benson; Peter J Mahoney; Jeff A Sikich; Laurel Ek Serieys; John P Pollinger; Holly B Ernest; Seth Pd Riley

4:40 PM **Managing a Large Predator before It Needs Restoration: Polar Bears and Climate Change**

Michael C Runge; Jenifer Kohout

Session 64: Ecology and Conservation of North American Forest Grouse: Past, Present, and Future

Organizers: Erik Blomberg, University of Maine, Orono, ME; Michael Schroeder, Washington Department of Fish and Wildlife, Bridgeport, WA; David Dahlgren, Utah State University, Logan, UT; Rocky Gutierrez, University of Minnesota, St. Paul, MN.

Supported by: TWS Forestry and Wildlife Working Group; The Ruffed Grouse Society

Location: 306A

1:10 PM **Forest Grouse in North America: A Rich Heritage**

Michael Schroeder

1:30 PM **Phylogeography, Classification, and Management Units of North American Forest Grouse**

George Barrowclough; Michael A Schroeder; R J Gutierrez

1:50 PM **Forest Management Trends and Implications for Ruffed Grouse Conservation in the Eastern United States**

Meadow Kouffeld-Hansen

2:10 PM **Landscape Dynamics, Spatial Heterogeneity, and Grouse Conservation in Upper Michigan: A New Business Model?**

R Gregory Corrace, III

Tuesday, October 18

- 2:30 PM **The Appalachian Cooperative Grouse Research Project - a Contemporary Model for Forest Grouse Research**
Dean F Stauffer; Gary W Norman
- 2:50 PM Break
- 3:20 PM **Forest Grouse Harvest Management in North America**
David Dahlgren
- 3:40 PM **Escaping the Winter: Ruffed Grouse Display Strong Behavioral Plasticity in Use of Snow Roosting**
Amy Shipley; Benjamin Zuckerberg
- 4:00 PM **Emerging Issues for Forest Grouse Conservation in Western North America, a Fresh Look at Some Familiar Problems**
Eric Thacker
- 4:20 PM **Integrating New Technologies in Forest Grouse Research and Management**
Erik Blomberg
- 4:40 PM **Panel Discussion**

Session 65: Is Sustainable Use of Wildlife Sustainable?

Organizers: John F. Organ, USGS Cooperative Fish and Wildlife Research Units, Reston, VA; Shane P. Mahoney, Conservation Visions Inc., St. John's, Newfoundland; Darren A. Miller, Weyerhaeuser Company, Columbus, MS

Supported by: TWS Hunting, Trapping, and Conservation Working Group

Location: 306B

- 1:10 PM **After Cecil: An International Perspective on Sustainable Use of Wildlife**
Shane P Mahoney
- 1:30 PM **Sustainable Use in North America: Perspectives from State Wildlife Agencies**
Jonathan Mawdsley
- 1:50 PM **Sustainable Use in Canada - Challenges and Barriers**
Michael S O'brien; Dave Kay
- 2:10 PM **Maintaining Relevance of Consumptive Use Among Wildlife Professionals: Do Sustainable Use Principles Matter?**
Zachary E Lowe
- 2:30 PM **Hunter-Harvested Meat as a Coupler of Humans and Sustainable Uses of Wildlife**
Shawn J Riley; Amber D Goguen; Per E Ljung; Göran Ericsson
- 2:50 PM Break
- 3:20 PM **Role of Hunting in Conservation of Biodiversity and Wild Landscapes**
John Edwards
- 3:40 PM **Treating Wildlife Like Wildlife: The Insidious Threat to Sustainable Uses of Viewing Wildlife as Private Property**
John E McDonald; Valorie Titus
- 4:00 PM **Trapping as a Sustainable Use and Livelihood: Will It Matter to Those Who Do Not Trap?**
Thomas Decker
- 4:20 PM **Wildlife Governance in the 21st Century -- Will Sustainable-Use Principles Survive?**
Daniel J Decker; John F Organ; Ann B Forstchen; Cynthia A Jacobson; William F Siemer; Christian A Smith; Patrick E Lederle; Michael V Schiavone
- 4:40 PM **Panel Discussion**

Session 66: NRCS Working Lands for Wildlife: Documenting Response

Organizers: Charles Rewa, USDA Natural Resources Conservation Service, Beltsville, MD; Galon Hall, USDA Natural Resources Conservation Service, Washington, D.C.

Location: 305A

- 1:10 PM **Multi-Species Benefits Under the Umbrella of Sage Grouse**
David Naugle
- 1:30 PM **Woody Expansion on Western Rangelands: Prairie Grouse as Focal Species for Strategic Ecosystem Restoration**
Jeremy D Maestas; David E Naugle; Christian A Hagen

Tuesday, October 18

- 1:50 PM **Satisfying the Quilt Work of Habitat Needs of the Lesser Prairie-Chicken: The Role of Patch-Burn Grazing**
Jonathan Lautenbach; David Haukos; Christian Hagen
- 2:10 PM **Are Larger Pastures and Sparser Herds the Way to Manage Grassland Birds? A Case-Study of the Lesser Prairie-Chicken**
John Kraft; David A Haukos; Christian Hagen; Jim Pitman
- 2:30 PM **Golden-Winged Warbler Response to Habitat Management: The Importance of Monitoring Data for Identifying and Refining Priority Areas for Conservation**
Darin McNeil
- 2:50 PM Break
- 3:20 PM **American Woodcock Occupancy and Abundance on Private Lands Managed for Golden-Winged Warbler in the Great Lakes and the Central Appalachian Mountains**
Kirsten E Johnson; Cameron J Fiss; Darin J McNeil; Amanda D Rodewald; Jeffrey L Larkin
- 3:40 PM **Developing Guidelines to Manage Habitats for New England Cottontails at Local and Landscape Scales**
Alena Warren; John Litvaitis; Donald Keirstead
- 4:00 PM **Science-Based and On-the-Ground-Tested Guidelines to Effectively Evaluate Breeding Habitat Conditions for Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo**
Matthew Johnson; Jennifer Holmes; Stu Tuttle
- 4:20 PM **Ensuring Habitat for Southwestern Willow Flycatchers Through Sustainable Grazing**
Robert J Steidl; David J Griffin; Larry D Hower; George Ruyle; Zachary Smalls; Stuart Tuttle
- 4:40 PM **Reducing Risks While Maintaining a Working Landscape: Livestock Grazing in Endangered Mouse Habitat**
Carol Chambers; Viacheslav Y Fofanov; Valerie Horncastle; Judith Springer; Stu Tuttle; Faith M Walker

Session 67: Big Science and Wildlife Diseases: Applying One Health Approaches in the Real World

Organizers: Kezia Manlove, Penn State, Bozeman, MT; Alan Franklin, USDA APHIS Wildlife Services, Fort Collins, CO; Rich Chipman, USDA-APHIS Wildlife Services, Concord, NH

Supported by: Wildlife Disease Working Group

Location: 306C

- 1:10 PM **Seeking Common Ground for Wildlife Disease Management**
Kezia Manlove
- 1:30 PM **Applying a One Health Approach to Benefit Wildlife Conservation**
Margaret A Wild; Michelle Verant; Danielle Buttke
- 1:50 PM **Pathogen/Within Host (Identifying Causal Agents of a Multifactorial Wildlife Disease)**
Tom Besser
- 2:10 PM **Interdisciplinary Collaboration for Management of Pneumonia in Bighorn Sheep**
Frances Cassirer
- 2:30 PM **Modeling Management Strategies for the Control of Bighorn Sheep Respiratory Disease**
Emily Almberg; Kezia Manlove; Frances Cassirer; Jennifer Ramsey; Keri Carson; Justin Gude; Raina Plowright
- 2:50 PM Break
- 3:20 PM **Big Science and Wildlife Diseases: Applying One Health Approaches in the Real World**
Jonathan Sleeman
- 3:40 PM **Connecting Physiological, Behavioral and Disease Mechanisms with Population Processes to Tackle White-Nose Syndrome in Endangered Bats**
Craig Willis; Quinn E Fletcher; Ana Breit; Christina M Davy; Heather Mayberry; Liam P McGuire; Kaleigh Jo Norquay; Alana Wilcox; Quinn MR Webber
- 4:00 PM **Disease Ecology of White-Nose Syndrome and Its Implications for Conservation**
Winifred Frick; Tina Cheng; Kate Langwig; Joe Hoyt; Katy Parise; Jeff Foster; A Marm Kilpatrick
- 4:20 PM **Rising to the Challenge of Managing White-Nose Syndrome**
Jeremy T H Coleman; Jonathan D Reichard; Susan C Loeb; Christina J Kocer; Richard Geboy
- 4:40 PM **Panel Discussion**

Tuesday, October 18

Session 68: Opportunities for Conservation Advances in Movement Analyses and their Applications to Wildlife Conservation

Organizers: Jared Stabach, Smithsonian Conservation Biology Institute, Front Royal, VA; Roland Kays, North Carolina Museum of Natural Sciences, Raleigh, NC; Justin Calabrese, Smithsonian Conservation Biology Institute, Front Royal, VA; Chris Fleming, Smithsonian Conservation Biology Institute, Front Royal, VA; Joe Northrup, Colorado State University, Fort Collins, CO; Gil Bohrer, Ohio State University, Columbus, OH; Chris Geremia, National Park Service, Yellowstone National Park, WY; Ronaldo Morato, Centro Nacional de Pesquisa e Conservação de Mamíferos Carnívoros-ICMBio, Brazil

Location: 305B

1:10 PM **Animal Tracking Hits the Big Data Threshold: Technical Challenges and Opportunities for Discovery**
Roland Kays; Margaret C Crofoot; Martin Wikelski

1:30 PM **Range vs. Occurrence Distributions for Quantifying Animal Space Use: Why the Brownian Bridge Is Not a Home Range Estimator**
Justin M Calabrese

1:50 PM **Individual Home-Range, Population, and Species Distribution Estimates: Synthesizing Heterogeneous and Autocorrelated Datasets**
Christen H Fleming; Justin M Calabrese

2:10 PM **Impacts of Energy Development on Space Use and Movement of Mule Deer**
Joseph M Northrup; Charles R Anderson Jr; George Wittemyer

2:30 PM **Wildebeest Movement as Input to Inform Agent-Based Models on Corridor Placement and Use**
Jared Stabach; Randall B Boone; George Wittemyer; Robin S Reid; Peter Leimgruber

2:50 PM Break

3:20 PM **Navigating between Food and Predators: Individual Choice Patterns of Serengeti Wildebeest and Zebra Captured by Hierarchical Models**
Grant Hopcraft

3:40 PM **There and Back Again: Fidelity as a Constraint on Movement in Migratory Ungulates**
Thomas A Morrison; Jerod A Merkle; Ellen O Aikens; Jeffrey L Beck; Randall B Boone; Samantha P Dwinell; Brad Griffith; J Grant C Hopcraft; Arthur D Middleton; Kevin L Monteith; Brendan Oates; Hall Sawyer; Kurt T Smith; Jared Stabach; Kaitlyn Taylor; Matthew J Kauffman

4:00 PM **The Movebank Environmental-Data Automated Track Annotation (ENV-DATA) System - New Possibilities in Processing and Interpretation of Animal Movement Data**
Gil Bohrer; Sarah C Davidson; Krystaal McClain; Rolf Weinzierl; Roland Kays; Martin Wikelski

4:20 PM **Integrating Population- and Individual- Level Data in a Movement Model of Yellowstone Bison**
Chris Geremia; P J White; Rick Wallen; Jennifer A Hoeting; N Thompson Hobbs

4:40 PM **Differences in Jaguar Movement and Home Range Size across Varied Landscapes in Brazil and Argentina**
Ronaldo Morato; Jared A Stabach; Peter Leimgruber; Chris H Fleming; Justin M Calabrese; Rogerio C De Paula; Daniel Kantek; Selma Onuma; Thadeu De Luque; Gediendson Araujo; Agustin Paviolo; Carlos De Angelo; Mario Di Bitetti; Cruz Paula; Emiliano E Ramalho; Marina M Carvalho; Marina S Xavier; Joares A May Jr; Mario Haberfeld; Liliam Rampim; Leonardo Sartorello; Denis A Sana; Fernando Lima; Laury Cullen; Katia MPM Ferraz

Wednesday, October 19

KEYNOTE

Session 69: Public-Private Partnerships for Conservation

Time: 8:30 AM

Location: Ballroom A

David M. "Lefty" Durando, Terry Mansfield, Jim Stone

See page 34 for more details.

SPECIAL POSTER SESSION

Session 70: Ecology and Conservation of Forest Grouse: Past, Present, and Future-Special Posters

Time: 9:00 AM - 5:00 PM

Location: Grand Lobby

- 1 **Spatial and Temporal Trends in Density and Site-Occupancy of Ruffed Grouse in Maine**
Kelsey Sullivan; Erik Blomberg; Marie Martin; Amanda Demusz
- 2 **Dusky Grouse Ecology and Management in Utah**
Skyler Y Farnsworth; David K Dahlgren; Eric T Thacker
- 3 **Effect of Forest Structure on Nest Site Selection by Spruce Grouse across Two Spatial Scales**
N Scott Parkhill; Joel M Tebbenkamp; Stephen W Dunham; Daniel J Harrison; Erik J Blomberg
- 4 **Summer Habitat Selection by Non-Reproductive Ruffed Grouse in Maine**
Joelle Mangelinckx; Erik J Blomberg; Samantha Davis; Brad Allen; Kelsey Sullivan
- 5 **Seasonal Survival and Harvest Rates of Ruffed Grouse in Central Maine, USA**
Samantha Davis; Erik Blomberg; Joelle Mangelinckx; Brad Allen; Kelsey Sullivan
- 6 **Trap and Transfer of Spruce Grouse from Maine and Ontario Into New York to Boost Local Populations and Help Maintain Long-Term Population Viability in New York**
Angelena Ross; Tom A Langen; Glenn Johnson
- 7 **Susceptibility of Ruffed Grouse to West Nile Virus**
Justin D Brown; Lisa M Williams; Richard A Bowen; Angela M Bosco-Lauth; Nicole M Nemeth
- 8 **Behavior and Nesting Ecology of Appalachian Ruffed Grouse**
Brian W Smith; Andrew N Tri; Chris A Dobony; John Edwards; Petra Bohall Wood
- 9 **Landscape Capability as a Predictor of Upland Game Bird Space Use in the Northeastern United States**
Zachary Lohman
- 10 **Are Sooty Grouse Associated with Big Trees Throughout California?**
James Bland
- 11 **Surveillance for Lymphoproliferative Disease Virus in Wild Upland Gamebirds in Pennsylvania**
Justin Brown; Christopher Cleveland; Lisa Williams; Mary Jo Casalena; Michael Yabsley
- 12 **Display behavior of male ruffed grouse in two key cover types in Minnesota**
Lorelle Berkeley, R. J. Gutiérrez

Wednesday, October 19

Session 71: Contributed Posters

Time: 9:00 AM - 5:00 PM

Location: Grand Lobby

- 13 **Micro- and Macrohabitat Characteristics of Eastern Small-Footed Bats in Virginia**
John K Huth; Alexander Silvis; W Mark Ford; Paul R Moosman, Jr
- 14 **A Habitat Suitability Analysis of the Red Wolf across Its Historic Range**
Lauren Toivonen; Matt Gompper; Hong He; Regina Mossotti
- 15 **Validation and Discrimination of Species Distribution, Habitat Selection, and Step-Selection Models**
John R Fieberg; James D Forester; Douglas H Johnson; Jason Matthiopoulos; Garrett M Street
- 16 **Predicting Road Mortality Hotspots in Northeastern North Carolina**
Christine M Proctor; Marcella J Kelly; Michael R Vaughan; Anne Burroughs
- 18 **Assessing the Reliability of DNA Barcoding to Monitor Pollinator Diversity during Prairie Restoration in Northwestern Minnesota**
Sara J Anderson; Marissa M Reeves; Stacy E Peterson
- 19 **Mosaic Fertilizer's Wildlife Translocations and Partnerships: Essential Tools for Conserving the Florida Scrub-Jay and Gopher Tortoise in Central Florida**
Sandra Patrick
- 21 **The South Atlantic Conservation Blueprint**
Amy Keister; Louise Vaughn; Hilary Morris
- 22 **Owl Pellets: An Effective Alternative to Conventional Trapping for Broad-Scale Studies Of Small Mammal Communities**
Leanne Heisler
- 23 **Impacts of Fire on Bat Occupancy in Shenandoah National Park**
Lauren V Austin; Alexander Silvis; Michael S Muthersbaugh; W Mark Ford
- 24 **Human Activity and White-Tailed Deer Road Crossing: Are They Connected?**
Eugene Potapov; Ryan Landels; Michael Rodgers; Edward Higgins; Fredrik Bryntesson
- 25 **Factors Influencing Scholarly Performance by Fisheries and Wildlife Faculty**
Robert K Swihart; Mekala Sundaram; Kenneth F Kellner; Tomas O Hook; J Andrew Dewoody
- 26 **Place Attachment Influences on Boating Access Site Selection**
Faren R Wolter
- 27 **Lead in Hunting Ammunition: Where Is There Un/Common Ground between Hunters and General Public in Oregon?**
Dana Sanchez
- 29 **Seabird Colony Decline, Nesting Performance, Human Harvest, and Invasive Predators in the Southern Grenadine Islands**
Wayne Smart; Natalia Collier; Virginie Rolland
- 30 **Evaluating the Georgia Master Naturalist Program**
Lauren N Hildreth
- 31 **Attacks by Asiatic Black Bears in District Mansehra, Pakistan: 2001-2015**
Muhammad Awais
- 32 **Impact of Invasive Asian Carp on the North American River Otter Diet**
Sarah E Meronk; Casey A Day; Elizabeth A Flaherty; Patrick A Zollner
- 33 **No Limits on the Invasion of Feral Swine throughout the United States**
Nathan P Snow; Marta A Jarzyna; David G Hewitt; Kurt C Vercauteren
- 34 **Finding the Last One: Use of Detector Dogs in the Final Stages of the Chesapeake Bay Nutria Eradication Project**
Margaret A Pepper; Jonathan A McKnight; Stephen R Kendrot
- 35 **Cat Tracker: Mapping the Ecological Impact of Free-Ranging Cats Through Citizen Science**
Troi Perkins; Holly Menninger; Rob Dunn; Roland Kays
- 36 **The Role of Domestic Cats in the Admission of Injured Wildlife at Rehabilitation and Rescue Centers across North America 2011-2015**
Kerrie Anne Loyd; Sonia M Hernandez; Dave McRuer
- 37 **Monitoring the Effects of Hurricane Sandy on American Black Duck Carrying Capacity**
Brenna Towery; Chris Williams; Paul Castelli; Susan Guiteras; Heidi Hanlon

Wednesday, October 19

- 38 **Helicopter Surveys for White-Tailed Deer: Temporal Trends in Counts and Stabilization Rates in Sex Ratios**
Matthew Schnupp; Aaron Foley; David Hewitt; Randy Deyoung
- 39 **Using UAS to Immobilise Animals (DIWA)**
Roman Eyholzer
- 40 **Combining Live and Camera Trapping Techniques for Assessing Small Mammal Populations and Behavior**
Joseph E Colbert; Kimberly Andrews; Steven Castleberry; Scott Coleman; Christopher L Jenkins; Jacob Thompson
- 41 **Extending Hexsim to Simulate River Networks**
Allen Brookes
- 42 **An Open-Source Hardware GPS Data Logger for Wildlife Radio-Telemetry Studies: A Case Study Using Eastern Box Turtles**
Patrick Cain; Matthew Cross
- 43 **BatME: Monitoring Distribution and Trends of Bats in Maine Using Outreach-Based Citizen Science**
Sabrina Morano; Erik Blomberg; Cory Mosby
- 45 **Educated Feral Hogs and Uneducated Landowners: Reversing the Trend**
Rebecca J McPeake
- 46 **Optimizing Bait Delivery for Striped Skunks**
Nikki J Crider; Shylo Johnson; Amy Gilbert
- 47 **The Effects of a Cull as a Localized Management Tool on White-Tailed Deer Density Across Brookhaven National Laboratory**
Ryan M Southard
- 48 **Designing Optimal Control Strategy for Eastern Gray Squirrels as an Introduced Problem Species**
Jonathan C Reynolds; Mike J Short; Tom A Porteus
- 49 **Fumigation of Burrowing Rodents with Carbon Monoxide: A Comparison to Alternative Fumigation Options**
Roger A Baldwin; Ryan Meinerz; Steve B Orloff
- 50 **Identification and Estimation of Damage Caused by Feral Hogs in Corn Fields Using Change Detection and an Unmanned Aerial System**
Sathishkumar Samiappan; Alex Crain; Lee Hathcock; Fred L Cunningham; Robert Moorhead
- 51 **Site Specific Management of Nuisance Geese on School Properties: A Case Study from New York State**
Lynn Braband
- 52 **Environmental Fate of Radiocesium in Aquatic and Semi-Aquatic Food Webs on the Savannah River Site**
James C Leaphart; Albert L Bryan; James C Beasley
- 53 **Polar Bears as a Sentinel for Emerging Wildlife Zoonoses: Past and Present Occurrence of *Brucella spp.*, *Coxiella burnetii*, and *Toxoplasma gondii* in the Southern Beaufort Sea Population**
Todd Atwood; Colleen Duncan; Kelly Patyk; Jack Rhyan; Pauline Nol; Matt Mccollum
- 54 **Black Bears as Novel Vectors/Reservoirs for Potential Human and Animal Pathogens**
Cameron Parsons; Sophia Kathariou; Jeffrey Niedermeyer; Phillip Brown; Nicholas Gould; Chris Deperno; Bernardo Mesa; Marcella Kelly; Mike Hooker; Michael Chamberlain
- 55 **The Northeast Wildlife Disease Cooperative**
Julie C Ellis; Walter O Cottrell; Nicholas Robinson; Salvatore Frasca Jr; Rachel Burns; Krysten L Schuler; Inga Sidor; Anne Lichtenwalner; Angelique Leone; Shannon Swist; Amar Patil; Lisa A Murphy
- 56 **Influence of Urbanization on Endoparasite Prevalence in Kangaroo Rats**
Gizelle Hurtado; Ghislaine Mayer; Karen Mabry
- 57 **Amphibian Chytrid Fungus: Potential Pathogen Establishment in a Highly-Protected Landscape**
Charles W Robinson; Stacy McNulty; Valorie Titus
- 58 **Neonicotinoids: An Emerging Threat to Wetland-Dependent Wildlife?**
Travis J Schepker; Elisabeth Webb; Ted Lagrange; Donald Tillitt
- 59 **Highly Pathogenic Avian Influenza in Wild Birds: Looking for Pathogens in Wildlife at a National-Scale**
Sarah Bevins; Ryan Miller; Marta Remmenga; Dan Walsh; Lori Gustafson; Lindsey Garber; Maria Antognoli; Tom Deliberto
- 60 **Lyme Disease Prevalence and Small Mammal Abundances on Fort Drum Military Installation, New York**
Samantha Fino; John Edwards; Sheldon Owen; Jeffrey Wimsatt; Raymond Rainbolt
- 61 **Does the Microbial Community of Nestlings' Fecal Sacs Influence Parental Nest Sanitation Behavior of a Songbird?**
Jessie Tutterow, Christine Stacey, Alexandra Barbour, Melanie Lee-Brown

Wednesday, October 19

CONTRIBUTED PAPERS

Session 72: Conservation and Ecology of Birds II

Location: 301B

Moderator: Alexander Fish, North Carolina State University, Raleigh, NC

- 10:30 AM **Examining the Effects of Historic Precipitation Patterns on Current Songbird Communities**
Heather Abernathy; Jeff Hepinstall-Cymerman; John Maerz
- 10:50 AM **127 Years of Shifts in Avian Spring Arrival Dates in West Virginia**
Lori M Petruski; James T Anderson; George Constantz; Sheldon Owen
- 11:10 AM **Abundance and Body Condition of a Neotropical Migratory Bird Overwintering in Mangrove Forests in Colombia**
Jessie Reese; Lesley Bulluck
- 11:30 AM **Habitat Selection of Golden-Winged Warbler Fledglings: The Importance of Structural Diversity in Local Landscapes**
Cameron J Fiss; Darin McNeil; Marja Bakermans; Jeff Larkin
- 11:50 AM **Range-Wide Assessment of Wintering Distributions and Migration Routes of Golden-Winged Warblers Using Geolocators**
Gunnar R Kramer; David E Andersen; David A Buehler; Petra B Wood; Sean M Peterson; Justin A Lehman; Kyle R Aldinger; Lesley P Bulluck; Brandon Gray; Sergio Harding; John A Jones; David I King; Jeffery L Larkin; John P Loegering; Darin J McNeil; Donald B Miles; Curtis Smalling; Rachel Vallender; Henry M Streby

Session 73: Conservation and Ecology of Mammals III

Location: 302A

Moderator: Michael Chamberlain, University of Georgia, Athens, GA

- 10:30 AM **Influence of Canis Body Size on Red Wolf-Coyote Hybridization in Eastern North Carolina**
Joseph W Hinton; John L Gittleman; Michael J Chamberlain
- 10:50 AM **Inbreeding and Mate-Choice in Endangered Red Wolves**
Kristin E Brzeski; Michael J Chamberlain; Sabrina S Taylor
- 11:10 AM **Effects of Anthropogenic Mortality on Wild Red Wolves in Northeastern North Carolina**
Michael Chamberlain; Joseph Hinton
- 11:30 AM **Survival and Capture Efficiency of River Otters in Southern Illinois**
Andrew U Rutter; Alex Hanrahan; Clayton K Nielsen; Eric M Schaubert
- 11:50 AM **The Influence of Northern River Otter Latrine Presence upon Carnivore Species Richness and Activity Patterns**
Rebekah A. Lumkes, Sarah Meronk, Natalie Euler, Casey C. Day, Patrick A. Zollner

Session 74: Habitat Conservation and Ecology

Location: 302B

Moderator: David Sawyer, NC Wildlife Resources Commission, Traphill, NC

- 10:30 AM **Bushy-Tailed Woodrats, Northern Flying Squirrels, and Forest Structure in the Eastern Cascades of Washington and Oregon**
Peter Singleton
- 10:50 AM **Seasonal Foraging by Forest Mice Enhances Loss of Weed Seeds from Crop Field Edges**
Sarah A Abercrombie; Jacob L Berl; Elizabeth A Flaherty; Robert K Swihart
- 11:10 AM **The Effects of Large Beach Debris on Nesting Sea Turtles**
Ikuko Fujisaki; Margaret Lamont
- 11:30 AM **Disturbance-Mediated Conversion of Closed-Canopy Hardwood Forest Stands to Early Successional Plant Communities in the Cumberland Mountains, Tennessee**
Jordan S Nanney; Craig A Harper; David A Buehler
- 11:50 AM **Estimating the Forage Potential of Moose Winter Habitat in High Versus Low Density Trend Units. Potential of Moose Winter Habitat in High Versus Low Density Trend Units**
Aimee P Rockhill; Delia V Kretsinger; Nikki Guldager; Bruce K Wylie; Michael J Coan

Wednesday, October 19**Session 75: Conservation and Ecology of Mammals IV**

Location: 302C

Moderator: Marcella Kelly, Virginia Tech, Blacksburg, VA

10:30 AM **Assessing Calf Survival and Cause-Specific Mortality in the Declining Moose Population in Northeastern Minnesota**

William J Severud; Glenn D Delgiudice

10:50 AM **Phylogeography of Cedros and Tiburon Island Mule Deer**

Ona Alminas; James Heffelfinger; Emily Latch

11:10 AM **White-Tailed Deer Response to Vehicle Approach**

Bradley F Blackwell; Thomas W Seamans; Travis L Devault

11:30 AM **How Do Altered Understory Characteristics Affect Individual Rodent Behaviors?**

Angela L Larsen; Jessica A Homyack; T Bently Wigley; Darren A Miller; Matina C Kalcounis-Rueppell

11:50 AM **Ungulate Predation and Ecological Roles of Historical and Contemporary Canid Top Predators of Eastern North America**

John F Benson; Karen M Loveless; Linda Y Rutledge; Brent R Patterson

Session 76: Mammal Population Ecology

Location: 303

Moderator: Jonathan Jenks, South Dakota State University, Brookings, SD

10:30 AM **Factors Influencing Survival of Neonatal Mule Deer**

Danielle R Walsh; Kelley M Stewart; Bruce K Johnson; Michael J Wisdom; Mary M Rowland; Darren A Clark

10:50 AM **Factors Influencing Mule Deer Juvenile Survival in an Arid Environment**

Levi J Heffelfinger; Kelley M Stewart; Vernon C Bleich; James S Seding

11:10 AM **Survival and Cause-Specific Mortality in the Restored Missouri Elk Herd**

Colter Chitwood; Barbara Keller; Kelly Straka; Lonnie Hansen; Joshua Millspaugh

11:30 AM **White-Tailed Deer Fawn Survival in a Southeastern Kentucky Population**

Joseph R McDermott; Caleb A Haymes; John J Cox; Gabe Jenkins; John Hast; Will E Bowling; Kyle Sams; Ben Augustine; Ben Matykiewicz; Tina Johannsen

11:50 AM **Survival of Red Desert Pronghorn in the Face of Environmental and Anthropogenic Change**

Adele K Reinking; Jeffrey L Beck; Tony W Mong; Mary J Read; Kevin L Monteith

Session 77: Natural Resources Management

Location: 304

Moderator: Brandon Sherrill, North Carolina State University, Raleigh, NC

10:30 AM **Lifetime Reproductive Effort in Male White-Tailed Deer: Start Fast and Be Persistent**

Aaron M Foley; Randy DeYoung; David Hewitt; Matthew Schnupp

10:50 AM **Exploring Compensation in Duck Mortality: How Do Duck Populations Respond to Harvest?**

Benjamin Seding; Christopher Nicolai; Kelley Stewart

11:10 AM **Natural Resource Applications of the Phenology Data and Information Housed in the National Phenology Database**

Erin E Posthumus; USA-NPN National Coordinating Office Staff

11:30 AM **Evaluating Fall Harvests with Practicable Wild Turkey Management Models: Incorporating Observation Uncertainty and Regulation Cycle**

Sydney E Manning; Bryan Stevens; David Williams

11:50 AM **Developing Robust Reference Points for Managing Fall Harvests of Assessment-Limited Wild Turkey Populations**

Bryan S Stevens; James R Bence; William F Porter; Michael L Jones

Wednesday, October 19

Session 78: Wildlife Damage Management

Location: 305A

Moderator: Michael Mengak, University of Georgia, Athens, GA

10:30 AM **Estimating the Distribution and Abundance of Water Birds on Catfish Aquaculture Facilities Using Imagery Collected from an Unmanned Aerial System**

Paul Burr; Sathishkumar Samiappan; Lee Hathcock; Brian Dorr; Robert Moorhead

10:50 AM **Use of Bait Hoppers to Focus Trapping Effort in Control of Eastern Gray Squirrels as an Established Alien Species**

Mike J Short; Jonathan C Reynolds

11:10 AM **Reliability of Assessing Deer Browsing Impact on Forest Vegetation**

Danielle R Begley-Miller; Duane R Diefenbach; Marc E McDill; Christopher S Rosenberry; Emily Just

11:30 AM **Combining Skunk Movement and Aerial Bait Distribution to Optimize Oral Rabies Vaccination**

Shylo Johnson; Chad Blass; Sam Mills; Nikki Crider; Travis Flanagan; Justin Fischer; Kim Pepin; Kurt Vercauteren

11:50 AM **Natal Philopatry and Nest-Site Fidelity in Double-Crested Cormorants on Two Unmanaged Islands in Lake Michigan**

Christopher R Ayers; Katie C Hanson-Dorr; Ken Stromborg; Todd W Arnold; Jake Ivan; Brian S Dorr

PANEL DISCUSSION**Session 79: Climate Change and Cross-Seasonal Research Priorities for Migratory Birds**

Organizers: Brad Griffith, U.S. Geological Survey, Alaska Cooperative Fish and Wildlife Research Unit, University of Alaska Fairbanks, Fairbanks, AK; Jennifer K. Roach, Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, AK; Madeleine A. Rubenstein, USGS National Climate Change & Wildlife Science Center, Reston, VA

Supported by: USGS Alaska Climate Science Center, USGS Alaska Cooperative Fish and Wildlife Research Unit

Time: 10:30 AM

Location: 305B

CONTRIBUTED PAPERS**Session 80: Biometrics and Population Modeling III**

Location: 301A

Moderator: Krishna Pacifici, North Carolina State University, Raleigh, NC

1:10 PM **Assessing Biological Realism of Wildlife Population Estimates in Data Poor Systems**

Viorel D Popescu; Kyle A Artelle; Mihai I Pop; Steluta Manolache; Laurentiu Rozyłowicz

1:30 PM **Minimizing Model and Design Based Sources of Bias When Estimating Juvenile Survival from Counts of Offspring with a Marked Parent**

Phillip A Street; Thomas V Riecke; James S Sedinger

1:50 PM **Incorporating Multiple Sources of Error in Hierarchical Models of Community Occupancy**

Philip T Patton; Krishna Pacifici; Jaime Collazo

2:10 PM **Model Averaging Madness: The Perils of Multicollinearity and Nonlinearity**

Brian S Cade

2:30 PM **Using Continuous-Time Resighting Data to Improve Inference from Multistate Mark-Recapture Studies**

William L Kendall; Catherine A Langtimm; Cathy A Beck; Kari A Rood; Sheri L Barton; Amy L Teague

2:50 PM Break

3:20 PM **Letting the "Good" Data Speak: Partial Data Cloning with Sightability Models**

Althea Archmiller; Katie St Clair; Subhash Lele; John Fieberg

3:40 PM **Understanding the Interaction of Annual and Regional Climate in Structuring Species Range Limits**

Staci M Amburgey; David AW Miller; Evan HC Grant

Wednesday, October 19

4:00 PM **Estimating Animal Densities in a Novel Landscape: Comparing Resource Selection and Demographic Population Prediction**

Garrett M Street; Arthur R Rodgers; Tal Avgar; Lucas M Vander Vennen; John M Fryxell

4:20 PM **On the Importance of Incorporating Sampling Weights in Occupancy Model Estimation**

Kathi Irvine; Thomas Rodhouse; Wilson Wright; Tony Olsen

Session 81: Conservation and Ecology of Wildlife Communities II

Location: 301B

Moderator: Chris Moorman, North Carolina State University, Raleigh, NC

1:10 PM **The Bird Matrix- Development of a Model for Assessing Forest Structural Needs to Maximize Bird Species Evenness and Vegetative Structural Diversity**

Ryan Jacobs; Gordon Warburton

1:30 PM **Feasibility of Using High-Resolution Satellite Imagery for Wildlife Ecology**

Michelle Larue; Seth Stapleton; Morgan Anderson

1:50 PM **Breeding Bird Response to Repeated Fuel Reduction Treatments in Upland Hardwood Forest**

Cathryn H Greenberg; Joseph Tomcho; Thomas A Waldrop; Dean Simon

2:10 PM **Birds, Butterflies and Burning: Wildlife Response to Summer Fire Used for Invasive Plant Control in Tall-Grass Prairie**

Sarah Ogden; David A Haukos; KC Olson; Jonathan Alexander

2:30 PM **Riparian Forest Structure and Composition Influence Reptile and Amphibian Distribution and Govern Resilience to Climate Change**

Heather L Bateman; David M Merritt

2:50 PM Break

3:20 PM **Herpetofaunal Response to Prescribed Fire, Shelterwood Harvest, and Midstory Herbicide Treatments for Mixed-Oak Forest Restoration**

Christopher E Moorman; Cathryn H Greenberg; Amy L Raybuck; Sundol Chad; Tara L Keyser; Janis Bush; Dean M Simon; Gordon S Warburton

3:40 PM **Changes to Spider Community Ecology in Habitats Disturbed by Deer Browse and Invasive Vegetation**

Andrew P Landsman; Jacob L Bowman

4:00 PM **Multi-Scale Invertebrate Response to Harvest Residue Removal**

Steven Grodsky; Christopher Moorman; Sarah Fritts; Joshua Campbell; Clyde Sorenson; T Bently Wigley

4:20 PM **Extending Your Reach: An Unmanned Aerial System for Tracking Small Wildlife**

Michael W Shafer; Paul G Flikkema; Carol L Chambers

Session 82: Human Dimensions

Location: 302A

Moderator: Shari Rodriguez, Clemson University, Clemson, SC

1:10 PM **Predicting Women's Intent to Participate in a Community-Based Conservation Program in Western Belize**

Amanda Kaeser; Adam Willcox

1:30 PM **Which Species to Conserve: Evaluating Children's Species-Based Conservation Priorities**

Kenneth A Erickson; Hannah G Shapiro; Nils Peterson; Kristin N Frew; Kathryn T Stevenson; R Brian Langerhans

1:50 PM **The Cultural Significance of Gray Wolves to the Western Apache**

Sarah E Rinkevich

2:10 PM **Investigating Visitor Use Trends and Management Preferences at Minnesota Wildlife Management Areas**

Kelsie Lasharr; David Fulton; Lou Cornicelli

2:30 PM **Wildlife Species Preferences Differ Among Children in Continental and Island Location in North America**

Hannah Shapiro; Nils Peterson; Kathryn Stevenson; Kristin Frew; Brian Langerhans

2:50 PM Break

3:20 PM **The Sociopolitical Dimensions of Red Wolf and Coyote Management: A Case From the Albemarle Peninsula, North Carolina**

Christopher Serenari

Wednesday, October 19

- 3:40 PM **Managing Conflict between Humans and Big Cats: Research Trends and Opportunities**
Kathleen E Krafte; Lincoln R Larson; Robert B Powell
- 4:00 PM **I Think a Coyote Attacked My Pet. Potential Effects of Assumption and the Need for Investigations to Validate Human-Coyote Conflict**
Jeremy Hooper; Christopher B Mowry; Thomas P Wilson; Timothy J Gaudin
- 4:20 PM **Timescapes of White-Deer Movement in Suburban 'Open Space': How Human Activity Affects Deer Movement**
Eugene Potapov; Ryan Landels; Kevin Roth; Michael Rodgers; Edward Higgins; Fredrik Bryntesson
- 4:40 PM **Endangered species as Enemies: The Media Portrayal of Human Conflict Over Piping Plovers**
Ashley A Dayer; Alicia Williams; Emily Cosbar; Meagan Racey

Session 83: Avian Habitat Loss and Management

Location: 302B

Moderator: James Garabedian, North Carolina State University, Raleigh, NC

- 1:10 PM **Bird-Landscape Thresholds Can Inform Siting and Prioritization of Broad-Scale Habitat Management for Sagebrush-Obligate Passerines**
Kevin J Gutzwiller; Curtis H Flather
- 1:30 PM **Influence of Forest Stand Complexity on Forest Songbird Diversity within Large Tracts of Forest in Pennsylvania**
Abigail Barenblitt; Margaret Brittingham; David Miller; Glenn Stauffer
- 1:50 PM **Reproductive Consequences of Habitat Fragmentation in a Declining Resident Songbird of the Longleaf Pine Ecosystem**
Jason M Winiarski; John P Carpenter; Christopher E Moorman
- 2:10 PM **Regional Assessment of Breeding Bird Response to Wildlife-Forestry**
Daniel Twedt; Randy Wilson
- 2:30 PM **Multi-Scale Migratory Bird Responses to Experimental Forest Management in Indiana, USA**
Kenneth F Kellner; Patrick J Ruhl; John B Dunning; Robert K Swihart
- 2:50 PM Break
- 3:20 PM **Assessing Impacts of Steam Assisted Gravity Drainage Disturbance on Lowland Boreal Birds at Regional and Lease Area Scales**
Carmen L Mahon; Gillian Holloway; Thea Carpenter; Jonah Keim
- 3:40 PM **An Evaluation of Landowner Incentive Programs on Northern Bobwhite Survival, Productivity, and Land Use in North-Central Texas**
Danielle Belleny; Jeff Breeden; Heather Mathewson; John Tomecek; Jim Giocomo
- 4:00 PM **The Effects of Roads on Bird Community Composition in Pennsylvania's Core Forested Landscape**
Kimberly M Serno; Margaret Brittingham; David Miller; Abigail Barenblitt; Glenn Stauffer
- 4:20 PM **Effects of Hemlock Decline on Bird Community Composition at Delaware Water Gap National Recreation Area**
Matthew Toenies; David Miller; Matthew Marshall
- 4:40 PM **Additive and Interactive Effects on Boreal Landbirds: A Cumulative Effects Analysis in a Multi-Stressor Landscape**
Gillian L Holloway; Carmen L Mahon; Erin M Bayne

Session 84: Mammal Spatial Ecology

Location: 302C

Moderator: Robert McCleery, University of Florida, Gainesville, FL

- 1:10 PM **The Relationships between Vegetation Phenology and Body Condition in Mule Deer**
Mindy B Rice; Kate R Searle; Charles R Anderson; Chad Bishop; N T Hobbs
- 1:30 PM **Quantifying Greenscapes: Spatiotemporal Patterns of Phenology Shape Green Wave Surfing in Migratory Mule Deer**
Ellen O Aikens; Matthew J Kauffman; Jerod A Merkle; Samantha P Dwinnell; Geneva W Chong; Gary L Fralick; Kevin L Monteith
- 1:50 PM **Fall Activity Patterns of Migratory and Cave Dwelling Bat Species in the Central Appalachians**
Michael S Muthersbaugh; Sara E Sweeten; Alexander Silvis; W Mark Ford; Lauren V Austin

Wednesday, October 19

- 2:10 PM **The Dichotomy between Territory Size and Space Use in Urban Coyotes**
Hance Ellington; Shane McKenzie; Evan Wilson; Stan Gehrt
- 2:30 PM **Spatial Patterns of White-Tailed Deer Herbivory in the Central Appalachian Mountains**
Andrew B Kniowski; W Mark Ford
- 2:50 PM Break
- 3:20 PM **Mate Availability Affects Individual Specialization in Movement and Spatial Patterns of an Adult Male Ungulate Species**
Bradley S Cohen; Thomas J Prebyl; Michael J Cherry; Tara G Crawford; Michael J Chamberlain; Karl V Miller
- 3:40 PM **Combining Sign Surveys and Home Range Data to Estimate Brown Bear Density in the Romanian Carpathians**
Ruben Iosif; Viorel D Popescu; Mihai I Pop; Silviu Chiriac; Radu Sandu; Brett Furnas
- 4:00 PM **Canid Collision: Range Expansion by Coyotes and Crab-Eating Foxes in Panama**
James Hody; Ricardo Moreno; Ninon F V Meyer; Krishna Pacifici; Roland Kays
- 4:20 PM **Pigs on the Wing: Movement Ecology of Translocated Wild Pigs**
Josh Smith; David Keiter; Stephen Sweeney; Ryan Miller; James Beasley
- 4:40 PM **What Can Location Data Tell Us About Coyote Status in a Landscape?**
Indrani Sasmal; Krishna Pacifici; Christopher S DePerno; Christopher E Moorman; Shubham Datta; Morgan B Swingen

SYMPOSIUM**Session 85: Applications of Decision Analysis for Wildlife Population Management**

Organizers: Abby Lawson, Clemson University, Clemson, SC; Tara Gancos Crawford, University of Georgia, Athens, GA; Clint Moore, USGS Georgia Cooperative Fish and Wildlife Research Unit, Athens, GA

Supported by: TWS Biometrics Working Group

Location: 303

- 1:10 PM **Structuring Objectives and Criteria for Wildlife Management Decisions: Feral Pigs in Hawai'i**
Lynn A Maguire
- 1:30 PM **Optimizing American Alligator Population Survey Design to Improve Management Decision-Making**
Abigail J Lawson; Clinton T Moore; Patrick Gr Jodice
- 1:50 PM **Applications of Decision Analysis in Wildlife Population Reintroduction**
Sarah J Converse
- 2:10 PM **Comparing the Value of Release Methods for Reintroduction of Steller's Eider**
James B Grand; Tuula Hollmen; Amy L Silvano; James D Nichols
- 2:30 PM **Using Decision Tools to Develop a Deer and Forest Management Program**
Duane R Diefenbach; Emily H Just; Todd Crandall; Shawn Lehman
- 2:50 PM Break
- 3:20 PM **Optimal Design of Speed Zones to Reduce Risk of Deadly Collisions between Wildlife and Watercraft**
Bradley Udell; Julien Martin; Mathieu Bonneau; Robert Fletcher; Holly Edwards; Timothy Gowan; Scott Calleson; Eliezer Gurarie; Charles Deutsch; Stacie Koslovsky
- 3:40 PM **Developing Consensus Objectives for a Multi-Species, Multi-Stakeholder Management Problem: The Case of Horseshoe Crab Harvest in Delaware Bay**
Conor P McGowan; James E Lyons; David R Smith; John Sweka; James D Nichols
- 4:00 PM **Learning-Focused Decision Support for Countering Introduced Grasses in Native Prairies**
Clinton T Moore; Jill J Gannon; Terry L Shaffer; Cami S Dixon
- 4:20 PM **Structured Decision Making as a Process Catalyst for Integrative Thinking and Collaboration**
Tara Gancos Crawford; Brian Crawford; Clinton T Moore; Nik Heynen
- 4:40 PM **Capstone Synthesis Comments**
Jim D Nichols

Wednesday, October 19

Session 86: Carnivores: A New Paradigm in Conservation, Management and Coexistence Strategies

Organizers: Suzanne Asha Stone, Defenders of Wildlife, Seattle, Washington

Location: 306C

1:10 PM **Factors Influencing Expert's Judgments Concerning the Appropriate Status of Grizzly Bears under the Endangered Species Act**

Jeremy T Bruskotter; Alexander Heeren; Gabriel Karns; Eric Toman; Harmony Szarek; Robyn Wilson

1:50 PM **Large Carnivore Conservation in Western North America: Science and Public Policy**

Cristina Eisenberg; Curtis Edson

2:10 PM **Effects of Sport Hunting on Cougar Population, Community, and Landscape Ecology**

Rob Wielgus

2:30 PM **Adaptive Nonlethal Strategies for Reducing Wolf-Sheep Conflict in Central Idaho Mountain Grazing Range**

Suzanne Stone

2:50 PM Break

3:20 PM **Transitioning to a Predator Friendly Future in Australia**

Arian D Wallach; Chris N Johnson; Adam O'Neill; Louise Boronyak; Daniel Ramp

4:00 PM **Developing Coexistence Strategies for Endangered Carnivores in the Southeast**

Ben Prater

4:40 PM **Panel Discussion****Session 87: Dynamic Disturbances and Community Structure: Beyond the Ashes**

Organizers: Marcus Lashley, Mississippi State University, Mississippi State, MS; Scott Rush, Mississippi State University, Mississippi State, MS; M. Colter Chitwood, University of Missouri, Columbia, MO

Location: 305A

1:10 PM **The Historic Role of Humans and Other Keystone Species in Shaping Hardwood Forests for Disturbance-Dependent Wildlife**

Cathryn Greenberg; Kendrick Weeks; Gordon S Warburton

1:50 PM **To Community Responses to an Experimental Mass Mortality Event and the Role of Vertebrate Scavengers**

Brandon Barton; Marcus A. Lashley; HR Jordan; JK Tomberlin

1:50 PM **A Phantasmagoria of Heterogeneity: Fire, Water and Birds**

Samuel D Fuhlendorf; Craig Davis; Torre Hovick

2:10 PM **Does Predator Hunting Mode Predict Prey Response to Fire?**

Michael J Cherry; L Mike Conner; Richard B Chandler; Daniel A Crawford; Brian D Kelly; Elina Garrison; David Shindle; Karl V Miller; Robert J Warren

2:30 PM **Colonial Waterbird Impacts to Insular Habitats: Too Much of a Good Thing?**

Brian Dorr

2:50 PM Break

3:20 PM **Does Prescribed Fire Enhance Assisted Migration of Coastal Vegetation?**

Loretta L Battaglia; Julia A Cherry; Mark S Woodrey

3:40 PM **Conservation of Fiery Ecosystems: Generating Mosaics of Pyrodiversity**

William J Platt

4:00 PM **Invasive Wild Pigs: A Destructive Ecosystem Engineer**

John J Mayer; James C Beasley

4:20 PM **Exotic Predators Affect Prey Behavior with Potential for Trophic Cascades in Island Ecosystems**

Mike Cove

4:40 PM **Climate, Anthropogenic Disturbance, and a Novel Predator Set an Evolutionary Trap for a Native Ungulate**

M Colter Chitwood; Marcus A Lashley; Christopher S Deperno; Christopher E Moorman

Wednesday, October 19**Session 88: Eastern Grasslands and Quail: Moving Conservation Forward**

Organizers: Patrick Keyser; University of Tennessee, Knoxville, TN; Megan Clayton, Texas A&M AgriLife Extension Service; Corpus Christi, TX; Jon Haufler, Ecosystem Management Research Institute, Seeley Lake, MT; Bill Vodehnal, Nebraska Game and Parks Commission, Bassett, NE

Supported by: Rangeland Wildlife Working Group

Location: 306A

1:10 PM **Eastern Grasslands, Conservation Challenges and Opportunities**
Patrick D Keyser

1:30 PM **Grassland Bird Conservation in the Central Hardwoods: How Much and Where Do We Implement Conservation Programs?**
David A Buehler; Christopher Lituma; Cara Joos; Jane Fitzgerald

1:50 PM **Thinking Strategically: Partnerships and Policy That Focus Resources for the Biggest Impact on Northern Bobwhites**
Jef L Hodges

2:10 PM **Challenging Our Fundamental Assumptions of Quail Recovery through Science, Monitoring, and Management**
James A Martin

2:30 PM **How Bessie Saved the World - Can Grazing Help Advance Grasslands Wildlife Conservation?**
Patrick D Keyser

2:50 PM Break

3:20 PM **Grazing and Grassland Birds: What We Have Learned So Far**
Chris M Lituma

3:40 PM **The Role of Grazing and Fire on Northern Bobwhite Habitat Selection in Missouri Grasslands**
Frank Loncarich; Kyle Hedges; Tom Thompson

4:00 PM **Grazing and Northern Bobwhite Nest Success and Adult Survival: Can They Go Together?**
Kyle Hedges

4:20 PM **Panel Discussion**

Session 89: Enhancing Wildlife Reintroduction Success

Organizers: David S. Jachowski, Clemson University, Clemson, SC; Joshua J. Millspaugh, University of Missouri, Columbia, MO; Paul L. Angermeier, Virginia Tech, Blacksburg, VA

Location: 306B

1:10 PM **A Conservation Paleobiology Perspective on Reintroduction**
Lee Lyman

1:30 PM **Human Dimensions Insights for Reintroduction of Fish & Wildlife Populations**
Shawn Riley; Camilla Sandström

1:50 PM **The Reintroduction Landscape: Finding Success at the Intersection of Ecological, Social, and Institutional Dimensions**
Paul Angermeier; Jason Dunham; Rollie White; Chris Allen; Bruce Marcot; Dan Shively

2:10 PM **How to Incorporate a Consideration of Disease in Animal Reintroductions**
Erin Muths

2:30 PM **Accounting for Potential Physiological and Behavioral Responses to Improve Animal Reintroduction Success**
David Jachowski; Samantha Bremner-Harrison; David Steen; Kim Aarestrup

2:50 PM Break

3:20 PM **Intra- and Interspecific Interactions May Influence Wildlife Reintroduction Success**
David Steen

3:40 PM **Release Considerations and Techniques to Improve Conservation Translocation Success**
Natasha Lloyd; Axel Moehrenschrager

Wednesday, October 19

4:00 PM **Making Reintroduction Monitoring Great Again**
Robert Gitzen; Barbara Keller; David Steen; Conor McGowan; James Godwin

4:20 PM **The Future of Animal Reintroduction**
Josh Millspaugh; David S S Jachowski; Rob Slotow; Paul Angermeier

4:40 PM **Panel Discussion**

Session 90: Science and Management: Turning Disconnect into Synergy

Organizers: Jerod A. Merkle, Wyoming Cooperative Fish and Wildlife Research Unit, Laramie, WY; Michael J. Sheriff, Penn State University, State College, PA; Tyler M. Harms, Iowa State University, Ames, IA

Supported by: Student Development Working Group; Early Career Professional Working Group

Location: 304

1:10 PM **Natural Resources Science and Management: Where We Are, Where We're Heading**
Ken Williams

1:30 PM **25 Years after Ten Years after "Reliable Knowledge": Why Are We Still Talking About This?**
Mike Mitchell

1:50 PM **Are We Doing Science or Just Fulfilling Management Objectives?**
Michael Sheriff

2:10 PM **Finding the Balance between Science and Management: A Graduate Student's Perspective**
Laura C Gigliotti

2:30 PM **Impact Factors: Their Impact and Implications for Management**
Tyler M Harms; Andrew L Stephenson

2:50 PM Break

3:20 PM **Bridging the Gap between Wildlife Research and Management: Where Do We Stand?**
Evelyn Merrill

3:40 PM **Facilitating Adaptation: Flexible Tools Instead of Answers to Chase a Moving Target**
Andrew Norton

4:00 PM **Integrating Wildlife Managers into Wildlife Research in Montana**
Justin Gude

4:20 PM **Linking Research and Management: Why You Should Clearly Define the Problem**
Duane R Diefenbach; Mary Jo Casalena; Emily H Just; Christopher S Rosenberry

4:40 PM **Translating Management and Conservation Needs into Sound Science; Addressing Management Questions on Bighorn, Bears and Deer within a Scientific Framework**
Heather Johnson

PANEL DISCUSSION**Session 91: Handling Microaggressions in the Workplace**

Organizers: Misty L. Sumner, Texas Parks and Wildlife, Van Horn, TX; Jessica A. Homyack, Weyerhaeuser, Vanceboro, NC

Supported by: Native Peoples Wildlife Management Working Group; Ethnic and Gender Diversity Working Group

Time: 3:20 PM

Location: 305B