

North American Joint Bat Working Group Meeting



28th Colloquium on the Conservation of Small Mammals

23rd Meeting of the Southeastern Bat Diversity Network

16th Meeting of the Northeast Bat Working Group

10th Meeting of the Midwest Bat Working Group

26-29 March 2018

Roanoke, Virginia

PROGRAM OVERVIEW

Time	Monday	Tuesday	Wednesday	Thursday
7:00-5:00		REGISTRATION	REGISTRATION	MAMMAL COLLOQUIUM
8:00-9:00		PLENARY SESSION	CONCURRENT NEBWG MEETING SPOTTED SKUNK	
9:00-10:00			CONCURRENT MWBWG MEETING SPOTTED SKUNK	
10:00-10:30		BREAK	BREAK	BREAK
10:30-11:00		PLENARY SESSION	CONCURRENT UPDATES FLYING SQUIRREL	MAMMAL COLLOQUIUM
11:00-12:00			CONCURRENT UPDATES FLYING SQUIRREL	
12:00-1:30	MYLE FIELD TRIP 1:00-6:00	LUNCH PROVIDED	LUNCH PROVIDED	LUNCH PROVIDED
1:30-2:00		PLENARY SESSION	MAMMAL COLLOQUIUM	MAMMAL COLLOQUIUM
2:00-3:00				
3:00-3:30		BREAK	BREAK	BREAK
3:30-3:45		PLENARY SESSION	MAMMAL COLLOQUIUM	MAMMAL COLLOQUIUM
3:45-4:45		SBDN MEETING		AWARDS & FAREWELL
4:45-5:00		EXPLORERS FOR BATS		
5:00-7:00+	REGISTRATION EXHIBITOR SETUP			
7:00-10:00	SOCIAL 7:00-12:00		SOCIAL & POSTER SESSION	

SCHEDULE OF EVENTS

2018 North American Joint Bat Working Group Meeting and the Colloquium on the Conservation of Mammals Roanoke, VA

MONDAY, MARCH 26, 2018 – EARLY ARRIVAL

1:00 p.m. – 6:00 p.m.	MYLE Working Group Field Trip
5:00 p.m.-9:00 p.m.+	Exhibitor Setup
5:00 p.m.-7:00 p.m.	Registration
7:00 p.m. – 12:00 a.m.	Welcome Social – Center in the Square

TUESDAY, MARCH 27, 2018 - PLENARY SESSION

7:00 a.m.-5:00 p.m.	Registration
8:00 a.m.-8:30 a.m.	Opening Remarks – Mark Ford (USGS, VA Tech Cooperative Unit)
8:30 a.m.-9:00 a.m.	Bat Migration – Liam McGuire (Texas Tech University)
9:00 a.m.-9:30 a.m.	Onshore Wind – Ed Arnett (Theodore Roosevelt Conservation Partnership)
9:30 a.m.-10:00 a.m.	Offshore Wind – Steve Pelletier (Stantec)
10:00 a.m.-10:30 a.m.	Break
10:30 a.m.-11:00 a.m.	Risk Assessment – Trevor Peterson (Stantec)
11:00 a.m.-11:30 a.m.	Mitigation – Chris Hein (Bat Conservation International)
11:30 a.m.-12:00 p.m.	Panel Discussion
12:00 a.m.-1:30 p.m.	Lunch Provided.
1:30 p.m.-2:30 p.m.	Motus Wildlife Tracking System – Stu MacKenzie (Bird Studies Canada)
2:30 p.m.-2:45 p.m.	Q&A
3:00 p.m.-3:30 p.m.	Break
3:30 p.m.-3:45 p.m.	Wrap-up – Liam McGuire
3:45 p.m.-4:45 p.m.	SBDN Working Group Meeting
4:45 p.m.-5:00 p.m.	Explorers for Bats by Ravenswood Media

Dinner On Your Own

**WEDNESDAY, MARCH 28, 2018 – BUSINESS MEETINGS, COLLOQUIUM ON THE
CONSERVATION OF MAMMALS, FLYING SQUIRREL WORKING GROUP,
AND SPOTTED SKUNK WORKING GROUP**

Time	Roanoke Ballroom	Crystal Ballroom
	Working Groups; Program Updates	Species Working Groups
	<i>Moderator: Brian Reichert</i>	<i>Moderator: Working Group Chairs</i>
7:00-5:00	Registration	Registration
8:00	Northeast Bat Working Group Meeting	Spotted Skunk Working Group Meeting
9:00	Midwest Bat Working Group Meeting	
10:00	Break	
10:30	Update on the National WNS Response Jeremy Coleman and Jonathan Reichard	Northern Flying Squirrel Working Group Meeting
10:45	2018 USFWS Bat Updates Robyn Niver, Mike Armstrong, Barbara Douglas, Andrew King, Lori Pruitt, and Shauna Marquardt	
11:00	PROMOTING ACTIONS TO CONSERVE BATS - BATCONSERVATIONALLIANCE.WIKIDOT.COM Charles M. Francis, Jeremy T. H. Coleman, Rodrigo A. Medellín, Rob Mies, Dave Waldien	
11:15	ACOUSTIC MONITORING OF INSECTIVOROUS BATS OF MEXICO: INITIATIVES, IMPLEMENTATION, AND POLICY MAKING Jorge Ortega, Verónica Zamora-Gutiérrez, María Cristina MacSwiney González, Abigail Martinez-Serena, Marco Tschapka, Ana Ibarra, and Rodrigo A. Medellín	
11:30	LASIURINE BATS AND WIND ENERGY: A UNITED NATIONS-BASED INITIATIVE FOR CONSERVATION AND SUSTAINABLE ENERGY Rodrigo A. Medellín and Erin B. Baerwald	
11:45	Q&A	
12:00	Lunch Provided	

Mammal Colloquium Wednesday Afternoon March 28

Time	Roanoke Ballroom	Crystal Ballroom
	Stressors and Bats: The New Normal	Mammal Monitoring and Documentation
	<i>Moderator: Shelby Fulton</i>	<i>Moderator: Kelly Watson</i>
1:30	<p>TORPOR PATTERNS AND HIBERNACULA CONDITIONS OF <i>PERIMYOTIS SUBFLAVUS</i> IN WHITE-NOSE POSITIVE AND NEGATIVE SITES</p> <p>Pallavi Sirajuddin*, Susan C. Loeb, David S. Jachowski and Eric R. Britzke</p>	<p>FINE SCALE HABITAT SELECTION BY EASTERN SPOTTED SKUNKS IN THE SOUTH CAROLINA APPALACHIANS</p> <p>Robin Y. Eng*, David S. Jachowski</p>
1:45	<p>WNS-INDUCED TEMPORAL AND SPATIAL CHANGES IN LITTLE BROWN BAT ACTIVITY</p> <p>Tomás Nocera*, Christopher A. Dobony, Alex Silvis, W.M. Ford</p>	<p>DEN SITE SELECTION OF FLORIDA SPOTTED SKUNKS (<i>SPILOGALE PUTORIUS AMBARVALIS</i>) IN A DRY PRAIRIE ECOSYSTEM</p> <p>Stephen N. Harris*, Terry J. Doonan, Erin L. Hewett Ragheb, Davis S. Jachowski</p>
2:00	<p>WINTER ROOST SELECTION BY TRI-COLORED BATS AND SOUTHEASTERN MYOTIS IN FLORIDA CAVES</p> <p>Lisa M. Smith, Terry J. Doonan, Brett Tornwall, and Jeffery A. Gore</p>	<p>USING CITIZEN SCIENTISTS AND CAMERA TRAPS TO SURVEY FOR EASTERN SPOTTED SKUNKS IN ALABAMA</p> <p>Andrew J. Edelman, William C. Cornelison, and Nicholas Sharp</p>
2:15	<p>MODELING THE EFFECTS OF WHITE-NOSE SYNDROME ON THE BAT COMMUNITY IN WISCONSIN</p> <p>Jordan J. Meyer*, Robin E. Russell, Scott E. Hygnstrom</p>	<p>NABAT: NORTH AMERICA UNITES TO SYSTEMATICALLY DOCUMENT BAT POPULATIONS</p> <p>Brian Reichert</p>
2:30	<p>ACTIVITY PATTERNS OF BATS AT SHENANDOAH NATIONAL PARK</p> <p>Nicholas Kalen, Mike Muthersbaugh, Alex Silvis, W. Mark Ford</p>	<p>ARCHIVING ACOUSTIC DATA TO MONITOR BATS OVER THEIR FULL ANNUAL CYCLE</p> <p>Theodore J. Weller</p>
2:45	<p>DRIVERS OF FALL AND SPRING HOURLY ACTIVITY PATTERNS OF MIGRATORY BAT SPECIES IN THE CENTRAL APPALACHIANS</p> <p>Michael S. Muthersbaugh*, Alexander Silvis, and W. Mark Ford</p>	<p>HABITAT PREFERENCE AND MOVEMENT PATTERNS OF FLORIDA BONNETED BATS (<i>EUMOPS FLORIDANUS</i>)</p> <p>Elysia Webb*, Holly Ober, Elizabeth Braun de Torrez</p>
3:00-3:30	BREAK	

Mammal Colloquium Wednesday Afternoon March 28

Time	Roanoke Ballroom	Crystal Ballroom
	Bats: Habitat and Sampling	Listening to Bats: How Good is our Hearing
	<i>Moderator: Sara Sweeten</i>	<i>Moderator: Alex Silvis</i>
3:30	EVALUATING PATTERNS IN BAT OCCUPANCY AND RELATIVE ACTIVITY ACROSS TOPOGRAPHIC CLASSES AT MARINE CORPS BASE QUANTICO AND PRINCE WILLIAM FOREST PARK Samuel R. Freeze*, W. Mark Ford,, Verl R. Emrick, and Alexander Silvis	BAT HIBERNACULA PRESENCE ABSENCE SURVEY USING ACOUSTIC DETECTORS Justin Zoladz and Chris Sanders
3:45	EFFECTS OF HABITAT STRUCTURE IN LONGLEAF PINE FORESTS ON BATS L. H. Moore*, S. C. Loeb, T. D. Steury, L. J. Marzen, and S. M. Hermann	BATS ACROSS THE SPACE-TIME CONTINUUM – A THEORY OF RELATIVE ACTIVITY Elaine Barr*, Alex Silvis, W.M. Ford
4:00	BATS, BUZZES, AND DRINKING: A PILOT STUDY AND PHOTOGRAPHIC JOURNEY Price Sewell, Steve Samoray, and Mark W. Gumbert	COMPARISON OF PASSIVE AND ACTIVE ACOUSTIC SAMPLING IN A BAT COMMUNITY IN SOUTH-CENTRAL SOUTH CAROLINA Katherine D. Teets*, S. Loeb, J. Kilgo, and D. Jachowski
4:15	DIGITAL ENDOSCOPE: A TECHNIQUE TO MONITOR ARTIFICIAL ROOSTING STRUCTURES FOR BATS Adam Mann and Jason Duffey	CLASSIFIER TEST REDUX: SIGNAL ANALYSIS SOFTWARE AS SURVEY TOOLS FOR DETERMINING MYOTIS SPECIES OCCUPANCY J.D. Chenger and J.D. Tyburec
4:30	DRONES FOR RECORDING BATS: CHALLENGES, RESULTS, AND ETHICAL CONSIDERATIONS Laura N. Kloepper and Yanqing Fu	LET’S JUST AGREE TO DISAGREE: COMPARING AUTO-ACOUSTIC IDENTIFICATION PROGRAMS Tomás Nocera*, Christopher A. Dobony, Alex Silvis, W.M. Ford
4:45	ESTIMATING POPULATION SIZES OF MYOTIS LUCIFUGUS THROUGH NOVEL METHODS AND ANALYSES Austin Waag*, John Treanor, Jessica Kropczynski, and Joseph Johnson	EXAMINING TEMPORAL TRENDS OF NATIVE BATS IN NORTHWEST OHIO THROUGH CITIZEN SCIENCE Tyler N. Turner,* Karen V. Root
5:00 – 7:00	DINNER ON YOUR OWN	
6:00 – 7:00	Poster Setup	
7:00 – 10:00	Social, Poster Session, Silent Auction	

Poster Session Wednesday Evening March 28

No.	Title and Authors
1	<p>EFFECTS OF VARIATIONS IN FOREST CANOPY OPENNESS, PREY ABUNDANCE, AND ABIOTIC FACTORS ON BAT ACTIVITY IN THE NANTAHALA NATIONAL FOREST</p> <p>Thomas M. Granger, Beverly Collins, Susan Loeb, Joseph Pechman, Aimee Rockhill</p>
2	<p>REACHING OUT TO NEW AUDIENCES FOR BAT CONSERVATION</p> <p>Catherine J. Hibbard</p>
3	<p>TWENTY YEARS OF MIST-NETTING IN WV: BAT POPULATION AND COMMUNITY CHANGES</p> <p>Catherine M. Johnson, Craig W. Stihler, and Chris Sanders</p>
4	<p>CHANGES IN BAT CAPTURE RATES AND COMMUNITY COMPOSITION AT FORT INDIANTOWN GAP, PENNSYLVANIA</p> <p>Christopher L. Hauer, Lisa E. Powers, David K. McNaughton, Carolyn P. Paul, and Brent J. Sewall</p>
5	<p>EASTERN SMALL-FOOTED MYOTIS (MYOTIS LEIBII) HABITAT ON THE NIAGARA ESCARPMENT</p> <p>Christy L. Humphrey, Heather A. Fotherby</p>
6	<p>HABITAT OCCUPANCY AND DETECTION RATES OF NORTHERN FLYING SQUIRRELS IN PENNSYLVANIA USING ULTRASONIC ACOUSTICS</p> <p>Corinne A. Diggins, Gregory G. Turner, and L. Michelle Gilley</p>
7	<p>SURVIVAL AND RECRUITMENT OF A PERSISTING COLONY OF LITTLE BROWN MYOTIS IN SOUTHERN ONTARIO</p> <p>Derek Morningstar, and Al Sandilands</p>
8	<p>HIBERNACULA COUNTS REVEAL MAJOR DECLINES IN MARYLAND CAVE BATS</p> <p>Elizabeth R. Stevenson, Daniel J. Feller, and J. Edward Gates</p>
9	<p>BATS IN BRIDGES: SEARCHING FOR SUITABLE ACOUSTIC METHODS AND ANALYSIS</p> <p>Eric D. Wolf and Margaret (Meg) Short</p>
10	<p>MOBILE ACOUSTIC SURVEY DURATION, SEASONALITY, AND REPETITION INFLUENCE INFERENCES ON BAT ACTIVITY AND SPECIES RICHNESS</p> <p>Holly K. Ober, Shelly A. Johnson, and Sarah E. Friedl</p>
11	<p>BAT ROOSTS IN BRIDGES: ASSESSING ILLINOIS BRIDGES FOR BAT USE</p> <p>Jocelyn R. Karsk and Jean M. Mengelkoch, and Janet Jarvis</p>
12	<p>BAT ACTIVITY SURROUNDING THE SILVER MOUNTAIN HIBERNACULUM DURING SPRING EMERGENCE AND FALL SWARM</p> <p>Joel A. Flory, Deahn M. Donner, Brian L. Heeringa, Jacqueline L. Frair</p>
13	<p>AN ASSESSMENT OF GENETIC STRUCTURE IN THE FLORIDA MOUSE (PODOMYS FLORIDANUS)</p> <p>Terry J. Doonan, Andrew Marx, and James D. Austin</p>

No.	Title and Authors
14	<p>COMMON MANUAL VETTING MISTAKES EVERY NOVICE MAKES</p> <p>Kathleen O'Connor, Lisa Kleinschmidt, Prescott Weldon, Michael Fishman, Leslie Rodman-Jaramillo, and Zoe Bryant</p>
15	<p>UPDATE ON THE DEVELOPMENT OF THE U.S. FISH AND WILDLIFE SERVICE ELECTRONIC BAT DATABASE</p> <p>Keith Lott</p>
16	<p>BABY IT'S COLD OUTSIDE: FALL 2017 AND WINTER 2018 BAT ACTIVITY ON THE COASTAL PLAINS OF NORTH CAROLINA</p> <p>Kristi Confortin, Dottie Brown, Drew Powell, Julia Hoeh, and Meredith Hoggatt</p>
17	<p>INFLUENCE OF OFF-ROAD VEHICLE TRAILS ON SMALL MAMMAL COMMUNITY STRUCTURE AND BAT ACTIVITY IN WESTERN MARYLAND</p> <p>Erin Thady, Emily Harlan, Sabrina Edwards, and Thomas Lambert</p>
18	<p>ARTIFICIAL ROOST USE BY NORTHERN LONG-EARED BATS IN WEST VIRGINIA FROM 2016-2017</p> <p>Malachia R. Evans and Eric Schroder</p>
19	<p>NORTHERN LONG-EARED BAT MATERNITY ROOST SELECTION IN MINNESOTA</p> <p>Morgan Swingen, Ron Moen, Richard Baker, Timothy Catton, Kari Kirschbaum, Gerda Nordquist, Brian Dirks, Nancy Dietz</p>
20	<p>IMPROVING CAPTURE METHODS TO INCREASE CAPTURE SUCCESS RATE AND REDUCE HANDLING TIME AND POTENTIAL STRESS LEVELS OF BATS IN ARTIFICIAL STRUCTURES</p> <p>Neil W. Lafleur</p>
21	<p>EFFECTS OF THE AMOUNT OF AGRICULTURE IN A FOREST MATRIX ON MEDIUM AND LARGE-SIZED MAMMALS IN SOUTHWEST VIRGINIA</p> <p>Rachel Collins and Olivia Karkenny</p>
22	<p>HOME RANGE DYNAMICS AND HABITAT SELECTION OF THE EASTERN SPOTTED SKUNK IN THE OZARKS</p> <p>Summer D. Higdon and Matthew E. Gompper</p>
23	<p>LAND MAMMALS OF THE VIRGINIA BARRIER ISLANDS</p> <p>Raymond D. Dueser, John H. Porter, and Nancy D. Moncrief</p>
24	<p>DETECTION EFFICIENCY OF THE ALLEGHENY WOODRAT (NEOTOMA MAGISTER) IN VIRGINIA</p> <p>Makayla E. Beckner, Emily D. Thorne, Karen E. Powers, Richard J. Reynolds, W. Mark Ford, Sandra L. Bryan</p>
25	<p>ACOUSTIC MONITORING OF GRAY BAT SUMMER COLONIES IN SOUTHWESTERN VIRGINIA</p> <p>Karen E. Powers, Rick J. Reynolds, Wil D. Orndorff, Tom Malabad, and W. Mark Ford</p>
26	<p>ACTIVITY PATTERNS AT GRAY BAT (MYOTIS GRISESCENS) SUMMER CAVE ROOSTS IN THE UPPER TENNESSEE RIVER BASIN, SOUTHWESTERN VIRGINIA: PRELIMINARY RESULTS USING THE BAT CALL DATA RECORDER (BCDR)</p> <p>Wil Orndorff, Tom Malabad, Katarina Kosic Ficco, Karen E. Powers, Rick Reynolds, and Chris Hobson</p>
27	<p>BAT UTILIZATION OF FORESTED HABITAT ON THE CUMBERLAND PLATEAU, TENNESSEE</p> <p>Connor Peach, Amy Turner, Ken Smith, Molly Mueller, and Mary Hannah Giddens</p>

No.	Title and Authors
28	"CRASH INTO ME:" HOW BRAZILIAN FREE-TAILED BATS AVOID COLLISIONS DURING CAVE EXODUS Bailey E. Oppman and Laura N. Kloepper
29	USE OF LONG TERM MONITORING TO STUDY IN-FLIGHT SOCIAL CALLS OF NORTH CAROLINA BATS Brian T. Springall, Han Li, and Matina C. Kalcounis-Rueppell
30	THE MAMMAL COLLECTION AT EASTERN KENTUCKY UNIVERSITY: A RESOURCE FOR NATURAL HISTORY EDUCATION AND CONSERVATION Carson E. McNamara & Luke E. Dodd
31	OPTIMIZATION OF CAMERA TRAPPING METHODS FOR SURVEYING MESOPREDATORS IN THE APPALACHIAN FOOTHILLS Courtney R. Hayes, Kelly Watson, and Luke E. Dodd
32	A MULTIVARIATE ANALYSIS OF COMPLEX RELATIONSHIPS BETWEEN DEN SELECTION BY EASTERN SPOTTED SKUNKS (SPILOGALE PUTORIUS) AND ENVIRONMENTAL VARIATION Emily D. Thorne, and W. Mark Ford
33	THE MICROBIOLOGY OF FRESH, SURFACE, AND DEEP BAT GUANO SAMPLES, INCLUDING DETECTION OF POSSIBLE PATHOGENS Makenzie B. Duncan, Laura N. Kloepper, John A. McInroy, and Joseph W. Kloepper
34	BAT TRACKING AND COUNTING WITH LOW-COST THERMAL CAMERAS Guangyu Wu, Laura N. Kloepper and Robert L. Stevenson
35	ARTIFICIAL ROOST STRUCTURES AS A SURROGATE FOR NATURAL ROOSTS IN THE EASTERN SMALL-FOOTED MYOTIS, MYOTIS LEIBII Jacques Veilleux, Katharine York, and Alana Larssen
36	COYOTE BEHAVIOR AND INTERACTION WITH MESOPREDATORS IN A FOREST/AGRICULTUREAL LANDSCAPE IN ROANOKE VALLEY, VA Josef Simme and Rachel Collins
37	NORTHERN LONG-EARED BAT MATERNITY COLONY ROOST TREE CHARACTERISTICS IN THE CENTRAL APPALACHIANS: HAS WHITE NOSE SYNDROME CHANGED ROOST SELECTION? Justin F. Hall, Michael S. Muthersbaugh, Alexander Silvis, and W. Mark Ford
38	THE INFLUENCE OF HABITAT AND WEATHER PARAMETERS ON BATS IN NORTHERN INDIANA Kaitlyn Cartone and Laura N. Kloepper
39	INTERACTIONS BETWEEN IMPREILED BAT SPECIES AND A FIRE DEPENDENT ECOSYSTEM IN THE SOUTHERN APPALACHIANS Kaitlyn Torrey, Andrew Edelman, Joseph Johnson, and Jonathan Stober
40	WELCOME HOME: BRAZILIAN FREE-TAILED BATS ADJUST THEIR ECHOLOCATION CALLS TO DETECT CAVE OPENING Kathryn A. McGowan and Laura N. Kloepper

No.	Title and Authors
41	COMPARISON OF AUTOMATED BAT CALL CLASSIFICATION SOFTWARE VERSIONS: WHEN TO UPGRADE? Katy R. Goodwin and Erin H. Gillam
42	A MULTI-YEAR WHITE-NOSE SYNDROME TREATMENT AT BLACK DIAMOND TUNNEL Kelly Lutsch, Kyle T. Gabriel, and Christopher T. Cornelison
43	SPECIES-SPECIFIC PROBABILITY OF WINTER ACTIVITY ACROSS A TEMPERATURE GRADIENT IN BATS Kevin A. Parker, Han Li and Matina C. Kalcounis-Rueppell
44	BAT ACTIVITY FOLLOWING REPEATED PRESCRIBED FIRE IN THE CENTRAL APPLALACHIANS Lauren V. Austin, Alexander Silvis, Michael S. Muthersbaugh, Karen E. Powers, W. Mark Ford
45	POTENTIAL BENEFITS OF REFORESTED AGRICULTURAL RIPARIAN ZONES FOR BAT COMMUNITIES M. T. Harris, H. P. Griscom, and P. M. Ludwig
46	ACOUSTIC SCANNING BEHAVIOR IN THE NORTHERN LONG-TAILED SHREW Maggie Gleason, Allison Pudlo, Laura N. Kloepper
47	CHANGES IN SUMMER BAT CAPTURE RATES AT MAMMOTH CAVE NATIONAL PARK: PRE/POST WHITE-NOSE SYNDROME ARIVAL Steven C. Thomas
48	BASAL HOLLOW MATERNITY ROOSTS OF SOUTHEASTERN MYOTIS IN ALABAMA Mattea Lewis, Kaitlyn Torrey, Andrew Edelman, Joe Johnson, and Jonathan Stober
49	BASELINE DATA ON OVERWINTERING BATS AND HIBERNACULA IN TEXAS Melissa B. Meierhofer, Krysta D. Demere, Brian L. Pierce, Joseph M. Szewczak, Jonah W. Evans and Michael L. Morrison
50	PRESCRIBED FIRE EFFECTS ON SNAGS IN THE SOUTHERN APPALACHIAN MOUNTAINS Michelle Baldwin, Andrew J. Edelman
51	SUMMER FORAGING RESOURCE SELECTION OF LOCAL BATS Molly Simonis, Volker Bahn
52	THE EFFECT OF ALTITUDE ON FREQUENCY, DURATION, AND BANDWIDTH OF ECHOLOCATION CALLS OF TADARIDA BRASILIENSIS RECORDED WITH AN UNMANNED AERIAL VEHICLE Morgan Kinniry and Laura N. Kloepper
53	FALL BEHAVIOR OF MYOTIS SEPTENTRIONALIS ON ISLANDS Samantha Hoff, Carl Herzog, Amanda Bailey, Zara Dowling, Danielle O'Dell, Luanne Johnson, Elizabeth Baldwin and Wendy Turner
54	CITY BAT LIFE Shannon Pederson
55	ESTABLISHMENT OF THE CHARITON HILLS BAT CONSERVATION BANK IN NORTHEAST MISSOURI Josiah J. Maine and Mark A. Tucker

Mammal Colloquium Thursday Morning March 29

Time	Roanoke Ballroom	Crystal Ballroom
	Simply Seps!	Mammal Potpourri
	<i>Moderator: Laci Coleman</i>	<i>Moderator: Nikki Castleberry</i>
8:00	<p>IMPLEMENTING NEW METHODS TO ASSESS THE SCALE OF EFFECT OF LANDSCAPE VARIABLES ON OCCURRENCE OF <i>MYOTIS SEPTENTRIONALIS</i></p> <p>John F. Grider*, Steven B. Castleberry, Jeffrey Hepinstall-Cymerman</p>	<p>POPULATION ESTIMATES OF THE ALLEGHENY WOODRAT (<i>NEOTOMA MAGISTER</i>) IN MARYLAND BASED ON LONG-TERM CAPTURE-RECAPTURE DATA</p> <p>Kelly J Pearce*, Dan J Feller, Tom L. Serfass</p>
8:15	<p>UNEXPECTED USE OF ANTHROPOGENIC STRUCTURES AND URBAN AREAS BY THE NORTHERN LONG-EARED BAT</p> <p>Meghan S. Lout</p>	<p>DISTANCE SAMPLING FOR SOUTHEASTERN POCKET GOPHERS (<i>GEOMYS PINETIS</i>)</p> <p>JT Pynne, Steven B. Castleberry, L. Mike Conner, Elizabeth Parsons, Robert Gitzen, Sarah Duncan, Robert McCleery, James D. Austin</p>
8:30	<p>DIURNAL ROOSTS AND FORAGING ACTIVITY OF NORTHERN LONG-EARED BATS (<i>MYOTIS SEPTENTRIONALIS</i>) AT TWO WIND ENERGY DEVELOPMENT PROJECTS IN SOUTHWESTERN PENNSYLVANIA</p> <p>Scott M. Conover, Jason P. Ritzert, Benjamin T. Hale, and Grant P. Gardner</p>	<p>CAN AUTOMATED SOFTWARE TELL BATS FROM FLYING SQUIRRELS?</p> <p>Corinne A. Diggins, L. Michelle Gilley, and W. Mark Ford</p>
8:45	<p>NORTHERN LONG-EARED BAT FALL ACTIVITY IN WEST VIRGINIA: WHAT ARE THEY DOING?</p> <p>Gregg A. Janos and Piper L. Roby</p>	<p>IMPACTS OF RECENT HURRICANES TO THE ENDANGERED ANASTASIA ISLAND BEACH MOUSE (<i>PEROMYSCUS POLIONOTUS PHASMA</i>)</p> <p>Emily H. Evans, Kurt A. Foote, Alice M. Bard, and William B. Brooks</p>
9:00	<p>POST-WNS NORTHERN LONG-EARED BAT DAY-ROOSTS IN A RESIDUAL POPULATION</p> <p>Jesse L. De La Cruz*, Ryan L. Ward, Eric S. Schroder, W. Mark Ford,, Elaine Barr, Tomas Nocera</p>	<p>HOW DO LARGE MAMMALS WEATHER THE STORM: MOVEMENT AND HABITAT SELECTION OF WHITE-TAILED DEER DURING HURRICANE IRMA</p> <p>Heather N. Abernathy-Conners, Daniel A. Crawford, Elina P. Garrison, Richard B. Chandler, Mike L. Conner, Karl V. Miller, and Michael J. Cherry</p>

Mammal Colloquium Thursday Morning March 29

9:15	<p>STATUS OF A NON-HIBERNATING POPULATION OF <i>MYOTIS SEPTENTRIONALIS</i> IN COASTAL PLAIN NORTH CAROLINA</p> <p>Gary W. Jordan</p>	<p>TESTING THE MANY-EYES HYPOTHESIS OF INTERSPECIFIC INTERACTIONS: RACCOONS ARE VIGILANCE PARASITES OF DEER</p> <p>Summer D. Higdon*, Marcus A. Lashley, M. Colter Chitwood, Christopher S. DePerno, and Christopher E. Moorman</p>
9:30	<p>NORTHERN LONG-EARED BAT SUMMER ROOST SELECTION ON COASTAL PLAIN SOUTH CAROLINA</p> <p>Kristi Confortin and Dorothy Brown</p>	<p>SPATIAL DISTRIBUTION OF INSECT-DERIVED NUTRIENTS AT MAMMOTH CAVE NATIONAL PARK</p> <p>Shelby A. Fulton and Luke E. Dodd</p>
9:45	<p>A POPULATION GENETICS ASSESSMENT OF THE NORTHERN LONG-EARED BAT</p> <p>Meghan A. Stark*, Jeffrey T. Foster, Matthew MacManes</p>	<p>INDIANA BAT (<i>MYOTIS SODALIS</i>) MATERNITY ROOST HABITAT PREFERENCE WITHIN MIDWESTERN UNITED STATES UPLAND OAK-HICKORY (<i>QUERCUS-CARYA</i>) FORESTS</p> <p>Eric S. Schroder, Dinesh B. Ekanayake, and Susan P. Romano</p>
10:00-10:30	BREAK	
Time	Roanoke Ballroom	Crystal Ballroom
	Forest Management and Bats <i>Moderator: Kristi Confortin</i>	Bats: Rarely Studied and Briefly Noted <i>Moderator: Cordie Diggins</i>
10:30	<p>BAT AND INSECT RESPONSES TO SHELTERWOOD AND PATCH CUT HARVESTS IN APPALACHIAN HARDWOOD FORESTS</p> <p>Phillip L. Arant*, Michael J. Lacki, John M. Lhotka, and Jeffrey W. Stringer</p>	<p>BAT BEHAVIORAL RESPONSES TO WHITE-NOSE SYNDROME AND IMPLICATIONS FOR RESISTANCE AND TOLERANCE</p> <p>Marianne Gagnon*, Gregory G. Turner, Kenneth A. Field, DeeAnn M. Reeder, and Brent J. Sewall</p>
10:45	<p>EFFECTS OF FOREST MANAGEMENT TECHNIQUES ON BAT HABITAT USE AT FORT INDIANTOWN GAP, PA</p> <p>Carolyn P. Paul*, Lisa Powers, Christopher Hauer, Shannon Henry, Tim Haydt, Dave McNaughton and Brent J. Sewall</p>	<p>TROPHIC NICHE PARTITIONING WITHIN A POST-WHITE-NOSE SYNDROME BAT COMMUNITY IN WESTERN KENTUCKY</p> <p>Macy J. Kailing, Terry L. Derting, and Gary T. ZeRuth</p>
11:00	<p>UNDERSTANDING THE ECOLOGICAL IMPACTS OF TIMBER HARVEST TECHNIQUES ON THE BAT COMMUNITY IN A MIDWESTERN HARDWOOD FOREST</p> <p>Keifer L. Titus*, Timothy C. Carter and Scott Haulton</p>	<p>THE COLD NEVER BOTHERED US ANYWAY: MIGRATION AND TORPOR OF MID-ATLANTIC BATS</p> <p>S. M. Deeley*, W.M. Ford, E. Barr, and M. St. Germain</p>

Mammal Colloquium Thursday Morning/Afternoon March 29

11:15	<p>AIRPORT EXPANSION AND ENDANGERED BATS: DEVELOPMENT AND MITIGATION NEAR THE INDIANAPOLIS INTERNATIONAL AIRPORT</p> <p>Timothy J. Divoll* and Joy M. O’Keefe</p>	<p>AN INVESTIGATION OF THE NIGHTLY FORAGING PATTERNS OF BATS IN RELATION TO AUDITORY PREDATOR CUES</p> <p>Carson E. McNamara* & Luke E. Dodd</p>
11:30	<p>EFFECTS OF FOREST THINNING ON BAT FORAGING ACTIVITY IN THE NORTHEASTERN UNITED STATES</p> <p>Lisa E. Powers, Christopher Hauer, David McNaughton, Shannon Henry, Timothy Haydt and Brent J. Sewall</p>	<p>ROOST SELECTION OF SOUTHEASTERN MYOTIS IN AN OLD-GROWTH BOTTOMLAND HARDWOOD FOREST</p> <p>S. Piper Kimpel* and Susan C. Loeb</p>
11:45	<p>FIRE-ADAPTED? RECREATING HISTORICAL FIRE REGIMES MAY BENEFIT AN ENDANGERED BAT</p> <p>Elizabeth C. Braun de Torrez, Holly K. Ober, and Robert A. McCleery</p>	<p>IMPORTANT HABITAT CHARACTERISTICS FOR EASTERN RED BAT REPRODUCTION IN SOUTHEAST OHIO</p> <p>Maria Monarchino* and Joseph Johnson</p>
12:00-1:30	LUNCH PROVIDED	
Time	Roanoke Ballroom	Crystal Ballroom
	Hawkeye State Seps	Mitigation and Risk Reduction
	<i>Moderator: Amber Schorg</i>	<i>Moderator: Kathryn Womack</i>
1:30	<p>MULTI-YEAR COLLABORATIVE STUDY TO ASSESS THE DISTRIBUTION AND MIGRATORY MOVEMENTS OF NORTHERN LONG-EARED BAT (MYOTIS SEPTENTRIONALIS) ACROSS THE STATE OF IOWA</p> <p>Kelly Poole, Jesse Leckband, and Amber Schorg</p>	<p>DEVELOPMENT OF CONSERVATION AREAS FOR ENDANGERED/THREATENED BATS IN WEST VIRGINIA: WHAT WORKS AND WHAT DOESN’T</p> <p>Ryan L. Ward and Eric S. Schroder</p>
1:45	<p>ACOUSTIC MONITORING TO DETERMINE NORTHERN LONG-EARED BAT (MYOTIS SEPTENTRIONALIS) DISTRIBUTION IN IOWA</p> <p>Julia Baker and Julie A. Blanchong</p>	<p>INTEGRATING MULTIPLE SURVEY TECHNIQUES DOCUMENT SHIFTING BAT COMMUNITIES IN THE WAKE OF WHITE-NOSE SYNDROME</p> <p>D. Scott Reynolds, Kevin Shoemaker, Susi von Oettingen, Stephen Najjar , Jacques P. Veilleux, and Paul R. Moosman</p>

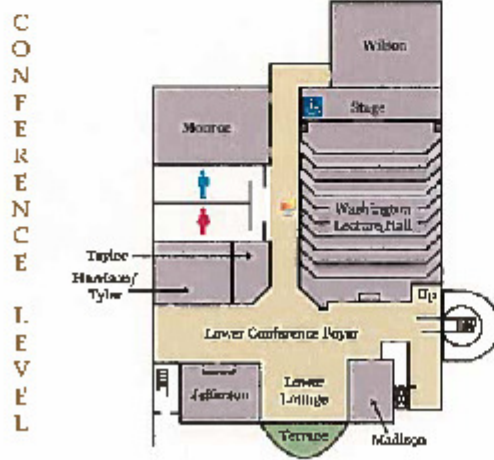
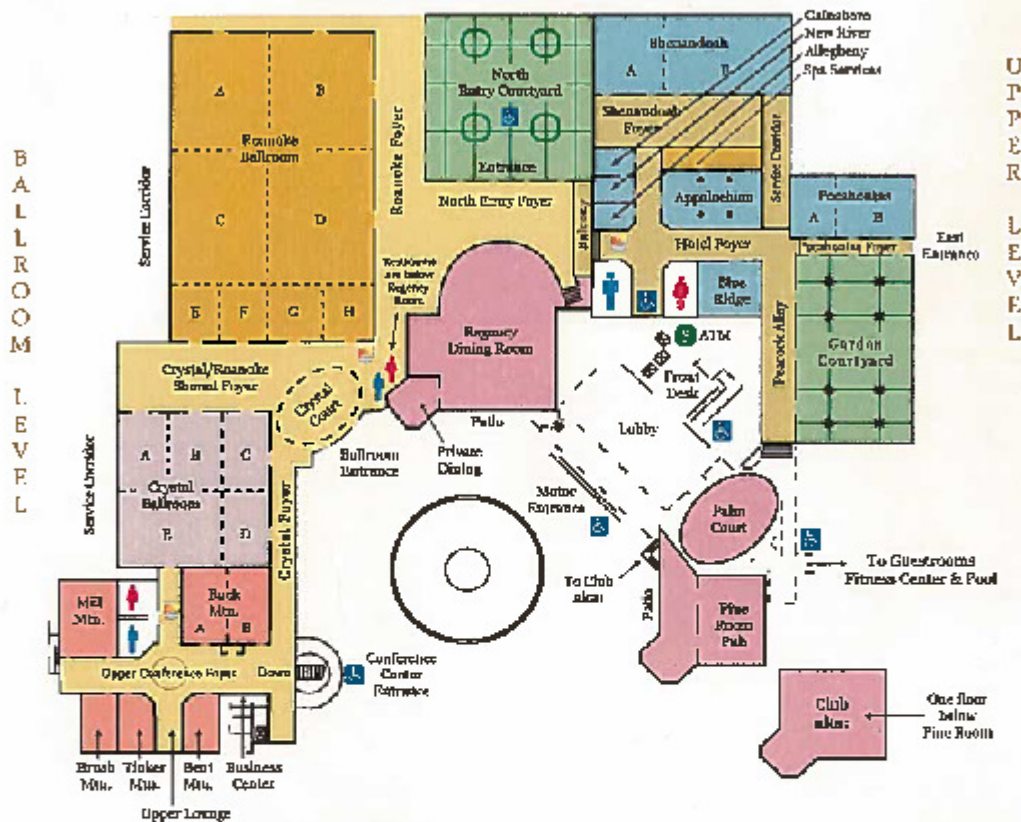
Mammal Colloquium Thursday Afternoon March 29

2:00	OBSERVATIONS OF FALL MIGRATORY BEHAVIOR FROM TWO SPECIES OF MYOTIS BATS IN CENTRAL IOWA Kevin L. Murray, Aaron MacAlexander, Benjamin T. Hale	IMPACTS OF WNS ON A PRIORITY ONE INDIANA BAT HIBERNACULA Timothy C. Carter, Joseph A. Kath, and Bradley J. Steffen
2:15	SEARCHING FOR BAT HIBERNACULA IN IOWA WITH SCENT DETECTION DOGS Aimee Hurt and Melissa Steen	BAT SURVEY HAZARDS: RISK REDUCTION AND AVOIDANCE Prescott J. Weldon, Michael S. Fishman, Kathleen E. O'Connor, Leslie Rodman-Jaramillo, Zoe D. Bryant, and Lisa Kleinschmidt
2:30	AUTUMN BEHAVIOR OF NORTHERN LONG-EARED BATS (<i>MYOTIS SEPTENTRIONALIS</i>) IN CENTRAL IOWA Piper Roby and Mark Gumbert	SMARTER CURTAILMENT FOR BATS Christine Sutter
2:45	THERMAL VIDEO AND ACOUSTIC MONITORING OF POTENTIAL NORTHERN LONG-EARED BAT (<i>MYOTIS SEPTENTRIONALIS</i>) HIBERNACULA IN IOWA Joshua Otten and Terry VanDeWalle	A GENERALIZABLE RAPID RESPONSE MODEL FOR REDUCING BAT FATALITIES AND IMPROVING POWER PRODUCTION AT WIND ENERGY FACILITIES Mark A. Hayes, Stephen Lindsey, Jason Collins, and Lauren Hooton
3:00-3:30	BREAK	
Time	Roanoke Ballroom	Crystal Ballroom
	Bat Distribution in New England <i>Moderator: Amber Schorg</i>	Mitigation/Risk Assessment Cont. <i>Moderator: Kathryn Womack</i>
3:30	CURRENT DISTRIBUTION OF BATS IN NEW HAMPSHIRE BASED ON STATE-WIDE ACOUSTIC SURVEY Sarah A. Barnum, Jamie O'Brien, and Jason Collins	<i>PSEUDOGYMNNOASCUS DESTRUCTANS</i> REMAINS A PROBLEM IN REMNANT MYOTIS POPULATIONS Morgan Ingalls, Corinne Michaud-LeBlanc, Lara Maddocks Wilbur, Bik Wheeler, Bruce Connery
3:45	TEN YEARS OF ACOUSTIC BAT SURVEYS: DOCUMENTING TRENDS IN MYOTIS ACTIVITY IN THE NORTHEAST Pamela Griffin and Trevor Peterson	EFFECT OF OMNIDIRECTIONAL MICROPHONE HEIGHT AND DISTANCE FROM EDGE ON PROBABILITY OF DETECTING BATS IN KENTUCKY Susan C. Loeb, Brooke A. Hines, and Michael P. Armstrong
4:00	AWARDS, ANNOUNCEMENTS, CLOSING	



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