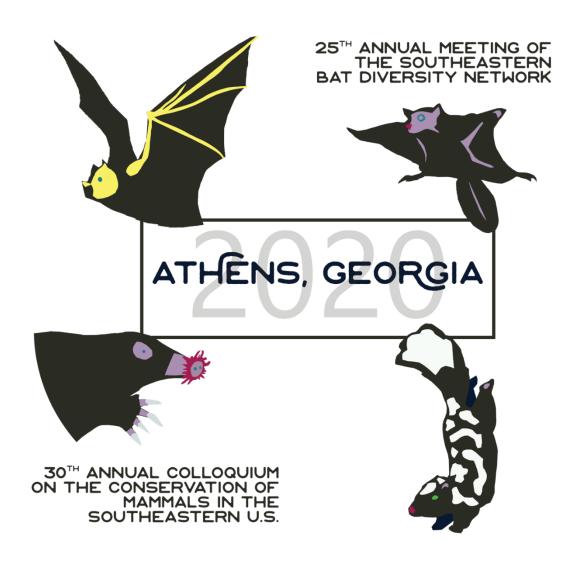
MEETING PROGRAM









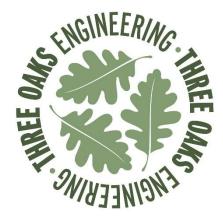








Wireless Environmental Monitoring for habitat monitoring with minimal intrusion





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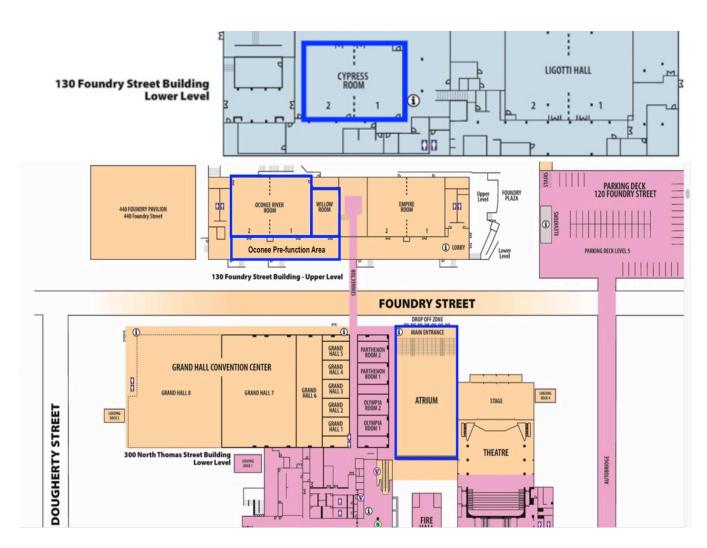


WILDLIFE RESOURCES DIVISION



EVENT LOCATIONS

All events will take place in either the Foundry Street Building or the Atrium in the main building across Foundry Street



Layout of The Classic Center, Athens GA

SBDN 2020 PLANNING COMMITTEE CONTACT INFORMATION

Classic Center Venue and Food Coordination

Trina Morris 678-836-5769

katrina.morris@dnr.ga.gov

Registration Coordination

Emily Ferrall 470-606-6666

emily.ferrall@dnr.ga.gov

Sponsorship & Exhibitor Coordination

Laci Pattavina 470-316-3071

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Meeting Program Coordination

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Presentations and Posters Coordination

Steven Castleberry 706-255-4686

scastle@warnell.uga.edu

Student Judging & Mammal Trivia Coordination

Nikki Castleberry 706-255-4841

neotoma@uga.edu

T-Shirts and Sticker Coordination

Maggie Hunt 361-676-4878

maggie.aduddellhunt@aecom.com

Silent Auction Coordination

Steve Samoray 615-542-1000

ssamoray@copperheadconsulting.com

Payments, Receipts and Invoice Coordination

Luke Dodd 859-536-8687

Luke.Dodd@eku.edu



GENERAL EVENT INFORMATION

Registration: The registration desk will be staffed throughout the meeting, as indicated in the schedule. Volunteers are available to provide registration packets, sell t-shirts, accept silent auction donations, and answer questions.

Presentations:

POSTERS: If you are presenting a poster, the number listed by your poster title in the program corresponds with your poster station. You will be able to set up your poster in the Atrium beginning at 5:00 p.m. on Thursday, February 13th. The poster session will be from 6:00-10:00 p.m. and presenters are encouraged to stand by their posters until at least 8:00 p.m. Posters should be removed after the session.

ORAL PRESENTATIONS: Presentations that were not submitted online ahead of time can be brought in person and loaded at the Bat Conservation and Management exhibit located in the back of the Oconee River Rooms. **Loading programs immediately before your session starts is not acceptable.**

Abstracts: Abstracts are available online at https://sbdn.wpengine.com/2020-annual-meeting/

<u>Judging Information</u>: If you have volunteered for judging student presentations or posters your judging packet should be included with your registration materials. The packet should include judging forms and instructions. Contact Nikki Castleberry (706-255-4841) with any questions or concerns. Please turn in judging forms as soon as possible after your session ends so that scores can be tabulated. Poster forms should be turned in at the end of the poster session. If you need additional time, please see Nikki. There will be a box in each room and at registration to turn in finished forms.

Refreshments & Meals: Lunch will be on your own throughout the meeting unless you are pre-registered for one of the lunch working group meetings. A variety of options are within walking distance of the venue and a list of good places to eat along with seating capacity was sent out in the pre-meeting informational email. A limited number of extra copies will be available at registration for you to look at. Light refreshments and snacks will be provided during morning and afternoon breaks. A social will be held in the Atrium during the poster session on Thursday, February 13 from 6:00-10:00 p.m. Dinner and a cash bar will be available. A limited number of drink tickets may be provided if funds allow.

<u>Silent Auction</u>: A silent auction will occur in the Atrium during the poster session and social on Thursday. Items for donation can be submitted at the registration desk during the meeting. Contact Steve Samoray (<u>ssamoray@copperheadconsulting.com</u>) with any questions. Last call for bids will be at 9:30 p.m. Forms of payment accepted include cash, credit card, and check. Proceeds from the auction fund our Student Travel Award Program (http://sbdn.org/student-travel-award-program/).

<u>Mammal Trivia Challenge</u>: Back by popular demand! The 2nd annual Mammal Trivia Challenge will include trivia questions, museum oddities, and other interesting museum finds. The Trivia Challenge will be available Thursday and Friday in the Willow Room. The challenge requires 2-person teams. All teams of two are welcome to participate, but professional-student pairs will be eligible to win prizes and other pairs (propro or student-student) will be eligible for honorable mentions. Students and professionals looking to find a partner for the Challenge are encouraged to leave their contact information at the registration desk.

NA Bat Support (Oconee Exhibitor Area): In addition to a scheduled NABat Support Session during the SBDN Meeting, NABat staff will be available throughout the conference to sit down and help work through all your data management questions. Please stop by their table in the Oconee Exhibitor Area.

OVERVIEW OF CONFERENCE EVENTS

WEDNESDAY, FEBRUARY 12, 2020 - PRE-CONFERENCE EVENTS AND WELCOME SOCIAL

- 3:00 p.m.- 6:00 p.m. Registration, Willow Room
- 3:00 p.m.- 6:00 p.m. Sponsor/Exhibitor Setup/Display, Oconee Pre-Function Area
- 3:00 p.m.- 5:00 p.m. Wildlife Acoustics Workshop, Oconee River Room 1
- 3:00 p.m. 5:00 p.m. Georgia Museum of Natural History Tour (Pre-registration Req.)
- 3:00 p.m. 5:00 p.m. SBDN Executive Committee Meeting, Cypress Room 2
- 5:00 p.m.- 6:30 p.m. Ice Skating at The Classic Center, 440 Foundry Pavilion
- 6:00 p.m. 7:30 p.m. Bat Conservation and Management Bat Walk at Dudley Park
- 6:30 p.m. 9:30 p.m. Welcome Social at Starland Pizza (Pre-registration Required)

THURSDAY, FEBRUARY 13, 2020 - SBDN AND ASSOCIATED MEETINGS

- 7:00 a.m. 6:00 p.m. Registration, Willow Room
- 7:00 a.m.- 6:00 p.m. Mammal Trivia Challenge, Willow Room
- 7:00 a.m.- 12:30 p.m. Sponsor/Exhibitor Setup/Display, Oconee Pre-Function Area
- 8:00 a.m.- 9:45 a.m. Spotted Skunk Working Group Meeting, Oconee River Room 1
- 8:00 a.m.– 9:45 a.m. Small-footed Bat Working Group Meeting, Oconee River Room 2
- 9:45 a.m.- 10:15 a.m. Break, Oconee Pre-Function Area
- 10:15 a.m.– 12:00 p.m. NA Bat Support Group Mtg, Oconee River Room 2
- 12:00 p.m. 2:00 p.m. Lunch on your own
- 12:00 p.m. 2:00 p.m. South Carolina Bat Working Group Meeting Lunch (Pre-registration Required)
- 2:00 p.m.- 3:30 p.m. PLENARY SESSION, Oconee River Rooms 1 & 2
- 3:30 p.m.- 4:00 p.m. Break, Oconee Pre-Function Area
- 4:00 p.m.- 5:00 p.m. SBDN Business Meeting, Oconee River Rooms 1 & 2
- 5:00 p.m.- 6:00 p.m. Poster Setup, Atrium
- 6:00 p.m.- 10:00 p.m. Social (Dinner Provided), Poster Session & Silent Auction, Atrium

FRIDAY, FEBRUARY 14, 2020 - COLLOQUIUM ON THE CONSERVATION OF MAMMALS

- 7:00 a.m. 11:00 a.m. Registration, Willow Room
- 7:00 a.m.- 12:00 p.m. Mammal Trivia Challenge, Willow Room
- 8:00 a.m. 10:00 a.m. Oral Presentations (Concurrent A, Oconee River Room 1)
- 8:00 a.m. 10:00 a.m. Oral Presentations (Concurrent B, Oconee River Room 2)
- 10:00 a.m.- 10:30 a.m. Break, Oconee Pre-Function Area
- 10:30 a.m.- 12:30 p.m. Oral Presentations (Concurrent A, Oconee River Room 1)
- 10:30 a.m.- 12:30 p.m. Oral Presentations (Concurrent B, Oconee River Room 2)
- 12:00 p.m. 2:00 p.m. Lunch on your own
- 12:00 p.m. 2:00 p.m. Bats and Bridges Working Group Meeting Lunch (Pre-registration Required)
- 2:00 p.m. 3:00 p.m. Oral Presentations (Concurrent A, Oconee River Room 1)
- 2:00 p.m. 3:00 p.m. Oral Presentations (Concurrent B, Oconee River Room 2)
- 3:00 p.m. 3:30 p.m. Awards, Announcements, Close (Oconee River Room 1)

THURSDAY, FEBRUARY 13, 2020 – Detailed Working Group, Plenary Session, and SBDN Business Meeting Information

Eastern Spotted Skunk Cooperative Study Group 8:00 – 9:45 a.m., Oconee River Room 1

Description: This working group will meet on Thursday, Feb 13th from 8:00 – 9:45 a.m. The group (https://easternspottedskunk.weebly.com/) is composed of approximately 135 wildlife biologists representing 28 state agencies, 26 universities, and 5 federal agencies. The goals of the group are to promote the conservation of eastern spotted skunks across their distribution through 1. enhancing communication about the species, 2. identifying management and resource priorities, and 3. facilitating collaborative planning, funding, outreach, monitoring and research opportunities. Our annual meeting at SBDN is open to all attendees and we invite participation from anyone with interests in spotted skunks. The meeting includes informational updates on management and research from across the range as well discussions of future priorities and coordination on various projects.

The Small-Footed Bat Working Group 8:00 – 9:45 a.m., Oconee River Room 2

Description: This working group will meet on Thursday, Feb 13th from 8:00 – 9:45 a.m. The meeting is open to all that are interested in small-footed bats, their ecology and research. The goals of the meeting are to promote collaboration across the range of the species, enhance data collection and ultimately the conservation of the species. This meeting will provide a venue for interested parties to share status updates from their region and foster communication between researchers. A discussion topic for this meeting will be evaluating the interest in a collaboration across both the range of the species and the agencies involved.

9:45 - 10:15 a.m. BREAK, Oconee Pre-function Area

THURSDAY, FEBRUARY 13, 2020 – Detailed Working Group, Plenary Session, and SBDN Business Meeting Information

NA Bat Support Group Meeting 10:15 – 12:00 p.m., Oconee River Room 2

Description: NABat Coordinating Office staff, Brian Reichert (NABat Coordinator) and Dane Smith (NABat Technical Monitoring Liaison), will provide an update on 2019 accomplishments and discuss new resources for data processing, project reporting, and data visualization. The session will include an overview with demos of the NABat workflow, from project planning to data submission. In addition, NABat staff will be on-hand to troubleshoot your data issues and provide hands-on training and assistance to NABat partners.

Agenda:

10:15 – 10:30 NABat Program updates from 2019 (Brian Reichert)

10:30 – 10:40 Overview of data submission, NABat database, and available online resources (Dane Smith)

10:40 – 11:00 Demo: Stationary Acoustic Data Submission (Dane Smith)

11:00 – 11:20 Demo: Mobile Transect Acoustic Data Submission using "legacy data" (Dane Smith)

11:20 – 11:40 Demo: Colony Count Data Submission (Pete Pattavina)

11:40 - 12:00 Q & A Session

NOTE: Bring your monitoring data. NABat staff will be available throughout the SBDN meeting to sit down and help work through all your data management questions. To schedule a 1-on-1 session with Dane Smith or Brian Reichert in advance, email: danesmith@contractor.usgs.gov.

12:00 – 2:00 p.m. LUNCH, on your own

THURSDAY, FEBRUARY 13, 2020 – Detailed Working Group, Plenary Session, and SBDN Business Meeting Information CONT'D

South Carolina Bat Working Group Meeting (pre-registration required) 12:00 – 2:00 p.m.

Depalma's Italian Restaurant 401 E Broad St, Athens, GA 30601

The South Carolina Bat Working Group will be meeting during lunch on Thursday from 12-2 p.m. at Depalma's Italian Restaurant, 401 E Broad St, Athens, GA 30601. The reservation is under Katrina (Trina) Morris in the private room. Seating is limited and pre-registration is required.

Plenary Session 2:00 – 3:30 p.m., Oconee River Rooms 1 & 2

To celebrate the 25th anniversary of the Southeastern Bat Diversity Network and the 30th anniversary of the Mammal Colloquium our Plenary Session will first take a look at mammal memories and techniques through the ages. The Plenary Session will then move into the future and talk about new technology and techniques being used currently in our field.

Local Host Welcome	Trina Morris
Long Ago on a Railroad Track Far Away	Mary Kay Clark
From Shotguns to Satellites: My How Times Have Changed	Steven Castleberry & Tim C. Carter
Calling All Bats! Acoustic Lures: An Emerging Bat Research Technique	Sam Freeze
Using Artificial Intelligence (AI) and Big Data Technology to Revolutionize Trail Camera Population Studies	Rans Thomas & Jonathan Samples
Pairing Mobile and Web GIS Capabilities to Get More Done	Dylan Severens
Q & A Discussion Panel	All Speakers

Plenary Session CONT'D 2:00 – 3:30 p.m., Oconee River Rooms 1 & 2

Trina Morris is a Wildlife Biologist with the Wildlife Conservation Section of the Georgia Department of Natural Resources and the immediate past president of SBDN.

Mary Kay Clark is a retired mammal curator from Raleigh, NC and a founding member of SBDN.

Steven Castleberry is a professor of wildlife ecology and management in the Warnell School of Forestry and Natural Resources at the University of Georgia. He earned his B.S. and M.S. degrees in forest resources at the University of Georgia and his Ph.D. in forest resource science from West Virginia University. His research focuses primarily on the ecology and management of small mammals and bats in managed forest systems. Much of his research has focused on the influence of timber harvesting, woody biomass harvesting, and prescribed fire on wildlife habitat relationships in pine systems [and he's old].

Tim C. Carter is Professor of Biology and Director of Field Stations and Environmental Education Center at Ball State University in Muncie, Indiana. He is currently the Chair of the Department of Environment, Geology and Natural Resources. His research has focused on bats extensively for the past 22 years and has focused on the Endangered Indiana bat (*Myotis sodalis*) for the past 18 years. Tim's interests center on non-game and endangered species and the impacts of current land management decisions. His research and conservation efforts have helped to enhance, protect, and secure a variety of hibernacula in southern Illinois that now house over 10% of all hibernating Indiana bats.

Sam Freeze is a PhD student in the Department of Fish and Wildlife Conservation at Virginia Tech. He enjoys pursuing novel bat research that has direct implications for effective management and conservation. Currently, he is working on numerous projects including the roost ecology of northern long-eared bats in the piedmont and coastal plain of Virginia, the effects of fire on migratory tree bats in Florida, and the effects of environmental clutter on Chiropteran echolocation signals. Frustrated by the difficulty of capturing bat species decimated by white-nose syndrome and curious about bat social behavior, he has begun studying the potential usefulness of acoustic bat lures.

Rans Thomas is a Wildlife Biologist and Consultant with over 25 years of experience developing and managing hundreds of private hunting properties across the United States. His lifelong passion for the outdoors and cutting-edge strategies in wildlife management have led him to become an expert in wildlife population modeling and an innovator in trail camera data analysis technology. He is recognized within the industry as an authority in game management and is a prominent advisor, speaker and TV personality. Rans is a proud graduate of The University of Georgia's Warnell School of Forestry and Natural Resources and received the Quality Deer Management Association (QDMA) Professional Deer Manager of the Year Award in 2009.

Johnathan Samples is an accomplished software developer with extensive experience in building and leading technical software development teams for over 18 years. He has specific expertise in design strategy, architecture, user interface and workflow development and system scale. Johnathan is the technical expert behind HuntPro™, combining his passion for the outdoors with his expertise in artificial intelligence and big data to develop an innovative tool for wildlife managers, conservationists and outdoorsmen to harness the power of their trail camera data.

Dylan Severens is a GIS Specialist within the Fisheries Management Section at the Georgia Department of Natural Resources and has been in this role since 2016. He specializes in online data management, cartography, and interactive maps which can be applied across many disciplines. Ongoing projects include creating and maintaining online databases for all coldwater and warmwater fish stocking within Georgia, managing standardized sampling data and running statistics for state biologists, and collecting data for annual federal reporting. Prior projects include creating an interactive map of the trout streams of Georgia and an interactive map of the state wildlife management areas. Dylan is a 2008 graduate of Franklin College at the University of Georgia, where he studied Geography and GIS.

THURSDAY, FEBRUARY 13, 2020 – Detailed Working Group, Plenary Session, and SBDN Business Meeting Information CONT'D

3:30 – 4:00 p.m. BREAK, Oconee Pre-function Area

SBDN Business Meeting Agenda 4:00 – 5:00 p.m., Oconee River Rooms 1 & 2

Introductory Remarks Steve Samoray, President

Tribute to Kathy Shelton Becky Rosamond

NABCA Report Trina Morris, Past-President

Treasurer's Report Luke Dodd, Treasurer

Committee Reports Committee Chairs

Presentation of Awards Nikki Castleberry

2019 Bat Blitz Report Lisa Gatens

2020 Bat Blitz Allison Cochran

Future Meetings Holly Ober, President-Elect

Other Business Membership

5:00 – 6:00 p.m. Poster Setup, Atrium

6:00 – 10:00 p.m. Social (dinner provided), Poster Session, & Silent Auction, Atrium
Poster numbers and titles can be found at the end of this program.

FRIDAY, FEBRUARY 14, 2020 — COLLOQUIUM ON THE CONSERVATION OF MAMMALS

TIME	EVENT AND LOCATION	
7:00 – 11:00	REGISTRATION (WILLOW ROOM)	
7:00 – 12:00	MAMMAL TRIVIA CHALLENGE (WILLOW ROOM)	
	Oconee River Room 1 Moderator: Susan Loeb, USFS SRS	Oconee River Room 2 Moderator: Mike St. Germain, Virginia Tech
8:00	BAT USE OF UPLAND PONDS WITHIN A HARDWOOD FOREST ECOSYSTEM. K. P. HARRISON* AND T. C. CARTER	HABITAT USE AND HOME RANGE OF APPALACHIAN COTTONTAILS IN WESTERN NORTH CAROLINA. C. A. DIGGINS, L. P. ERB, AND J. J. APADOCA
8:15	OVERALL DECLINE AND COMMUNITY COMPOSITIONAL CHANGES OBSERVED IN SUMMER BAT FIELD SURVEYS SINCE WHITE-NOSE SYNDROME ARRIVED IN NORTH CAROLINA. H. LI, K. C. ETCHISON, K. A. PARKER, G. GRAETER, K. C. WEEKS, AND M. C. KALCOUNIS-RUEPPELL	TRANSLOCATION OF SOUTHEASTERN POCKET GOPHERS (GEOMYS PINETIS) IN GEORGIA. J. T. PYNNE*, S. B. CASTLEBERRY, L. M. CONNER, E. PARSONS, R. GITZEN, S. DUNCAN, R. MCCLEERY, AND J. D. AUSTIN
8:30	FLORIDA'S LONG-TERM BAT MONITORING PROGRAM: REVIEW AND LOCATION SPOTLIGHTS. K. D. TEETS	INTRAGUILD INTERACTIONS OF MESOPREDATORS IN APPALACHIAN KENTUCKY. C. R. HAYES*, K. WATSON, AND L. E. DODD
8:45	WINTER CULVERT SURVEYS IN LOUISIANA. A. N. ANDERSON, M. C. ARIAS, B. C. UPTON, M. L. HOGGATT, AND B. R. STAFFORD	STUDIES ON SARCOPTIC MANGE IN BLACK BEARS (URSUS AMERICANUS). M. J. YABSLEY, K. NIEDRINGHAUS, J. D. BROWN, M. A. TERNENT, AND S. K. PELTIER
9:00	BAT COMMUNITY SPECIES RICHNESS, DIVERSITY, AND CONDITION TRENDS AT STREAM SITES IN BANKHEAD NATIONAL FOREST FROM 2009 TO 2019. J. M. NEMATI* AND W. E. STONE	ENVIRONMENTALLY DRIVEN ACTIVITY AND MOVEMENT PATTERNS OF EASTERN SPOTTED SKUNKS BASED ON ACCELEROMETER-INFORMED GPS TELEMETRY. A. J. EDELMAN, K. J. ARTS, AND N. SHARP

FRIDAY, FEBRUARY 14, 2020 — COLLOQUIUM ON THE CONSERVATION OF MAMMALS CONT'D

TIME	Oconee River Room 1 Moderator: Susan Loeb, USFS SRS	Oconee River Room 2 Moderator: Mike St. Germain, Virginia Tech
9:15	ASSESSMENT OF CULVERTS AND BRIDGES AS ROOSTING HABITAT FOR PERIMYOTIS SUBFLAVUS (TRI-COLORED BAT) AND DISEASE TRANSMISSION CORRIDORS FOR PSEUDOGYMNOASCUS DESTRUCTANS. K. E. LUTSCH* AND C. T. CORNELISON	GENETIC DIVERSITY AND POPULATION STRUCTURE OF EASTERN SPOTTED SKUNKS (SPILOGALE PUTORIUS) IN VIRGINIA. E. D. THORNE*, E. M. HALLERMAN, AND W. M. FORD
9:30	COASTAL SWAMP BATS: FIVE YEARS OF NORTHERN LONG-EARED BAT STUDIES IN EASTERN NORTH CAROLINA. G. W. JORDAN AND C. D. MANLEY	UPDATE ON PLAINS SPOTTED SKUNK SPATIAL ECOLOGY PROJECT IN SOUTHEASTERN TEXAS. J. C. PERKINS*, K. P. JEFFERSON, M. H. HAMILTON, R. C. DOWLER, AND R. D. STEVENS
9:45	MONITORING BAT POPULATIONS ON THE BLUE RIDGE PARKWAY: USING ACOUSTIC SURVEY DETECTION RATES TO DETECT TRENDS FROM 2011 TO PRESENT. C. DORIN*, Z. VEGSO, C. KEMPTER, AND R. P. CHERRY	SPECIES DIVERSITY AND GEOGRAPHIC VARIATION OF PIROPLASMS IN STRIPED SKUNKS (MEPHITIS MEPHITIS) AND SPOTTED SKUNKS (SPILOGALE SPP.) IN THE UNITED STATES. K. B. GARRETT, J. D. BROWN, M. GABRIEL, D. JACHOWSKI, S. HARRIS, AND M. J. YABSLEY
10:00 – 10:30	BREAK (OCONEE PRE-FUNCTION AREA)	
TIME	Oconee River Room 1 Moderator: Brian Carver, Tennessee Tech	Oconee River Room 2 Moderator: Holly Ober, University of Florida
10:30	WINTER DAY-ROOSTS OF SEMINOLE BATS IN NORTH-CENTRAL FLORIDA: A BURNING QUESTION. M. J. JORGE*, M. TRUE, S. FREEZE, S. SWEETEN, M. CHERRY, AND W. M. FORD	DIET ANALYSIS OF ENDANGERED INDIANA BAT (MYOTIS SODALIS) MATERNITY COLONIES IN KENTUCKY. R. MILAM* AND T. DERTING

FRIDAY, FEBRUARY 14, 2020 — COLLOQUIUM ON THE CONSERVATION OF MAMMALS CONT'D

	0 0 0	
TIME	Oconee River Room 1 Moderator: Brian Carver, Tennessee Tech	Oconee River Room 2 Moderator: Holly Ober, University of Florida
10:45	SEASONAL BAT ACTIVITY PATTERNS IN HIGH-ELEVATION MONTANE CONIFER SKY ISLANDS. C. A. DIGGINS AND W. M. FORD	INFLUENCE OF REPRODUCTIVE CONDITION ON POST-WNS RECOVERY OF INDIANA BATS IN KENTUCKY. M. L. ROGERS*, Z. L. COUCH, AND L. E. DODD
11:00	WINTER ROOSTING ECOLOGY OF NON-CAVE HIBERNATING TRI-COLORED BATS IN THE UPPER COASTAL PLAIN OF SOUTH CAROLINA. B. N. NEWMAN*, S. C. LOEB, AND D. S. JACHOWSKI	INDIANA BATS SELECT ARTIFICIAL ROOSTS BASED ON SOLAR EXPOSURE AND WEATHER. R. D. CRAWFORD*, L. E. DODD, AND J. M. O'KEEFE
11:15	ROOST USE AND SELECTION OF NORTHERN YELLOW BATS AND TRI- COLORED BATS IN COASTAL SOUTH CAROLINA. K. E. SHUTE*, S. C. LOEB, AND D. S. JACHOWSKI	SUMMER USE OF MAN-MADE STRUCTURES IN LOUISIANA. B. U. UPTON, A. N. ANDERSON, AND B. R. STAFFORD
11:30	PRESCRIBED FIRE EFFECTS ON BAT SUMMER HABITAT USE IN THE CUMBERLAND PLATEAU. C. S. DAVIS* AND S. C. LOEB	ECTOPARASITE LOAD EFFECT ON BLOOD CELL COUNT IN RAFINESQUE'S BIG-EARED BATS. B. N. SPITZ*, C. A. GRIFFIN, AND T. S RISCH
11:45	36-YEAR RETROSPECTIVE REVIEW OF BAT MORBIDITY AND MORTALITY IN THE SOUTHEASTERN USA. C. C. GOODWIN*, K. D. NIEDRINGHAUS, M. R. KUNKEL, M. G. RUDER, M. K. KEEL, H. M. A. FENTON, N. M. NEMETH	FORAGING BEHAVIOR AND HABITAT-USE OF FEMALE RAFINESQUE'S BIG-EARED BATS ON A FRAGMENTED LANDSCAPE IN RURAL ARKANSAS. C. A. GRIFFIN*, B. N. SPITZ AND T. S. RISCH
12:00 – 2:00	LUNCH (ON YOUR OWN)	
12:00 – 2:00	BATS IN BRIDGES LUNCH (PRE-REGISTRATION REQUIRED) DEPALMAS ITALIAN CAFÉ 401 E. BROAD ST. ATHENS, GA 30601 (706) 354-6966 RESERVATION UNDER KATRINA (TRINA) MORRIS IN THE PRIVATE ROOM	

FRIDAY, FEBRUARY 14, 2020 — COLLOQUIUM ON THE CONSERVATION OF MAMMALS CONT'D

TIME	Oconee River Room 1 Moderator: Karen Powers, Radford University	Oconee River Room 2 Moderator: Corinne Diggins, Virginia Tech
2:00	LANDSCAPE AND ROOST USE BY SPRING MIGRATING FEMALE INDIANA BATS (MYOTIS SODALIS). P. L. ROBY, A. G. DAVIS, M. W. GUMBERT, AND M. J. LACKI	White-nose syndrome antifungal treatments: Black Diamond Tunnel and beyond. K. T. Gabriel, A. McDonald, K. Lutsch, and C. T. Cornelison
2:15	MULTI-SCALE HABITAT SELECTION BY NORTHERN LONG-EARED BATS ON THE COASTAL PLAIN OF NORTH CAROLINA. J. L. DE LA CRUZ, M. TRUE, H. TAYLOR, D. BROWN, G. JORDAN, C. MANLEY, W. M. FORD	BAT TRACKING 2000 VS. 2019: THE MORE THINGS CHANGE J. D. CHENGER
2:30	RAFINESQUE'S BIG-EARED AND SOUTHEASTERN BATS SWITCH HABITS FROM FALL TO WINTER IN ARKANSAS, USA. S. J. SCHERMAN, T. S. RISCH, AND V. ROLLAND	IMPROVING BAT SURVEY EFFICIENCY AND PROBABLE PRESENCE RESULTS BY COMBINING PHYSICAL CAPTURE EFFORTS WITH ACOUSTIC RECORDING METHODS. J. D. CHENGER AND J. D. TYBUREC
2:45	ARE SOME BATS SNOWBIRDS? THE SUMMER ORIGINS OF TRI-COLORED BATS OVERWINTERING IN FLORIDA CAVES. L. M. SMITH, J. A. GORE, T. J. DOONAN, AND C. CAMPBELL	RECOGNIZING SUBHARMONICS IN BAT ECHOLOCATION CALLS. C. CORBEN AND A. POULOS
3:00 – 3:30	AWARDS, ANNOUNCEMENTS, CLOSE	

POSTER PRESENTATIONS

LISTED ALPHABETICALLY BY FIRST AUTHOR'S LAST NAME
ALL PRESENTERS ARE UNDERLINED AND STUDENT PRESENTERS ARE DENOTED WITH AN ASTERISK (*)

- 1. Habitat suitability modeling for *Lontra canadensis* in southeastern Tennessee. <u>J. N. Allen*</u>, T. P. Wilson, and T. J. Gaudin
- 2. Survey of bat diversity in an urban wetland. A. P. Barton* and S. M. Bergeson
- 3. ROOST TREE SELECTION BY ENDANGERED FLORIDA BONNETED BATS. E. C. BRAUN DE TORREZ, J. A. GORE, AND H. K. OBER
- 4. **Profiling bat species activity at different artificial light intensities**. T. Bryan and <u>T. C.</u> McElroy
- 5. A REVIEW OF CAVE AND MINE USE BY TREE-ROOSTING BATS. C. J. CAMPBELL* AND H. B. VANDER ZANDEN
- 6. Species diversity and land type usage of bats in a southeastern urban park (U.S.). $\underline{\text{M. J.}}$ Cavalieri*
- 7. DESCRIPTION OF THE SKULL MORPHOLOGY OF THE TRICOLORED BAT (*PERIMYOTIS SUBFLAVUS*) IN KENTUCKY. R. D. CRAWFORD* AND L. E. DODD
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