

2019 Oklahoma Natural Resources Conference



Hosted by the Oklahoma Chapters of The Wildlife Society, American Fisheries Society, Society for Range Management, Invasive Plant Council, Society of American Foresters, and Prescribed Fire Council

February 20-22, 2019
Tulsa, OK
Hyatt Regency Hotel

MEETING SCHEDULE

Wednesday, February 20 (Hyatt Regency Hotel)

OKNRC Registration (Second Floor Foyer)	9:00 am to 10:00 am
OKNRC Registration (Second Floor Foyer)	4:00 pm to 6:30 pm
Seminar A/V setup (Room B and D)	10:00 am to 12:00 pm
Terrestrial and Aquatic Diseases in Oklahoma Seminar (Room D)	1:30 pm to 4:30 pm
Women in Natural Resources (Room B)	1:30 pm to 5:00 pm
A/V Set-up for presenters (Second Floor Foyer)	4:00 pm to 6:00 pm
Student/Professional Mixer (Second Floor Foyer)	6:30 pm to 9:00 pm

Thursday, February 21

Registration (Second Floor Foyer)	7:30 am to 11:40 am	
Registration (Second Floor Foyer)	2:00 pm to 5:00 pm	
A/V Set-up for presenters (Second Floor Foyer)	7:30 pm to 5:00 pm	
Plenary session (Room D)	8:30 am to 11:05 am	
Poster Session/Break	11:05 am to 11:20 am	
Human Dimension (Room B)	11:20 am to 12:20 pm	
Fire Ecology (Room C)	11:20 am to 12:20 pm	
Water Quality (Room D)	11:20 am to 12:20 pm	
* Lunch (Student/mentor must preregister for)	12:20 pm to 2:00 pm*	
Human Dimension (Room B)	2:00 pm to 3:00 pm	
Movement (Room C)	2:00 pm to 3:00 pm	
Smallmouth Bass (Room D)	2:00 pm to 3:00 pm	
Poster Session/Break	3:00 pm to 3:20 pm	
Birds (Room B)	3:20 pm to 5:00 pm	
Eastern Redcedar Dynamics (Room C)	3:20 pm to 5:00 pm	
Population (Room D)	3:20 pm to 5:00 pm	
Business Meetings	5:00 pm to 6:00 pm	
TWS – Room A	AFS – Room B	SRM – Room D
Poster Session (Second Floor Foyer)	3:00 pm	
Mixer (Tulsa Ballroom)	6:00 pm	
Dinner, Awards and Auction (Tulsa Ballroom)	6:30 pm to 9:00 pm	

Friday, February 22

Registration (Second Floor Foyer)	7:30 am to 9:00 am
A/V Set-up for presenters (Second Floor Foyer)	7:30 pm to 9:00 pm
Invasive Species (Room B)	8:00 am to 10:00 am
Stream Fisheries (Room C)	8:00 am to 10:00 am
GIS Modeling (Room D)	8:00 am to 10:00 am

Break	10:00 am to 10:20 am
Species of Concern (Room B)	10:20 am to 12:00 am
Conservation Programs (Room C)	10:20 am to 12:00 pm
Response Management (Room D)	10:20 am to 11:00 am
Oklahoma Invasive Plant Council Meeting (Room D)	11:00 am
Adjourn	12:00 pm

2019 OKNRC Planning Committee:

Vicki Jackson – TWS	Priscilla Crawford – IPC	P. J. Martin – SRM
Kristen Gillman – TWS	Craig Davis – TWS	Ken Cunningham – AFS
Josh Richardson – TWS	Blayr Gourley – SRM	Colin Walden – SRM
Brandon Reavis – SRM	Matt Mauck – AFS	Steven Smith – PFC
Alex Schawrtz – SAF	Ashley Nealis - AFS	

Plenary Speakers

Dr. William Matthews: Challenges and Opportunities for Future Fisheries Professionals: Basic Biology of Species, Long-term Studies, and Taking Good Field Notes

Professor at University of Oklahoma from 1979 to 2016. Retired November 2016, now Professor Emeritus in Biology Department, OU. Taught Ichthyology, Fish Biology, Ecology, and various fish courses at OU Biological Station. Education: BSE (1968) and MS (1973) from Arkansas State University; PhD University of Oklahoma 1977. Officer, US Army 1968-1970. Taught at Roanoke College, Virginia, 1977-1979, then returned to OU as Assistant Professor in 1979. Spent 15 years in residence at OU Biological Station at Lake Texoma, with extensive studies of Striped Bass, predator-prey interactions, and fish communities in the reservoir. Also long term studies of fish communities in Brier Creek, Oklahoma, and Piney Creek, Arkansas, now more than 40 years evaluating changes in fish community structure in both systems. Primary interests: Long-term change in stream fish communities throughout Oklahoma and Midwest; systematics of minnows and darters in the region; effects of fish in stream ecosystems; physical tolerances of fishes relative to harshness of systems; habitat selection by fishes; effects of forest management and land use on fish communities; general surveys of fish throughout Oklahoma. More than 100 published papers on fishes in Oklahoma, Arkansas, and Midwest; three books, including “Patterns in Freshwater Fish Ecology” (1988) and with Edie Marsh-Matthews “Stream Fish Community Dynamics: A Critical Synthesis” published in 2017. He has served as President of the American Society of Ichthyologists and Herpetologists (ASIH) and of the Southwestern Association of Naturalists (SWNat); as Curator of Fishes at Sam Noble Oklahoma Museum of Natural History from 1982 to 2003; and as Chairman of the OU Zoology Department (2003-2011). Bill has received Lifetime Achievement Awards from the Arkansas and Oklahoma Chapters of the American Fisheries Society; the Joseph S. Nelson Lifetime Achievement Award in Ichthyology from ASIH; and the Carl R. Sullivan Fishery Conservation Award from AFS in 2018. Bill continues to collaborate with Edie Marsh-Matthews on long-term studies of stream fishes and in writing papers from our shared 40+ years of data.

Dr. Torre Hovick: Simplification of Rangelands Threatens Biodiversity Conservation

Dr. Torre Hovick is an assistant professor of range science at North Dakota State University. He received his BS at the University of Northern Iowa, MS at Iowa State, and PhD at Oklahoma State University. His

MS and PhD research focused on the influence of restored disturbance regimes on the native bird community. Dr. Hovick currently advises six graduate students that research highly integrated range/wildlife/fire ecology topics and involve organisms such as bees, butterflies, birds and bats. He has 36 publications in a wide variety of journals including outlets such as Rangeland Ecology and Management and Ecological Applications and has received over \$2 million in funded grants. When not doing research, Dr. Hovick enjoys taking photos of wildlife and spending time outdoors with his two daughters.

Dr. James M. Guldin: Forestry in the 21st century—resistance, resilience, and transition under changing climatic conditions

Dr. Jim Guldin is the Station Silviculturist for the Southern Research Station of the USDA Forest Service, and is stationed in Hot Springs, Arkansas. He is one of three Station scientists who serve on the SRS Research Advisory Board, which supervises the scientific research program for all of the Station's research work units across the South. With a 35-year career in academia and Federal research, Jim describes himself as an "alleged" expert in the theory and application of uneven-aged silvicultural systems in southern yellow pines and in Ozark oak-hickory forests, on the restoration of even-aged shortleaf pine-bluestem woodlands in the Ouachita Mountains of Arkansas and Oklahoma, and restoration and management of longleaf pine forests and woodlands in the lower Gulf Coastal Plain. He is active in the Society of American Foresters; in the IUFRO Uneven-aged Silviculture Working Group, and serves on the Editorial Board for the British journal, *Forestry*. Jim also serves on two major regional advisory groups: 1) the Science Advisory Council for the L-A-D Foundation, which manages the 143,000-ac Pioneer Forest in southern Missouri, and 2) the Longleaf Partnership Council, an advisory group of 33 Federal, State, industry, private landowners, and conservation groups charged with implementation of the 2010 America's Longleaf Pine Restoration Initiative.

Dr. Dirac Twidwell, Jr.: Managing for a future of uncertainty and change

Dirac Twidwell is an associate professor of rangeland and fire ecology at the University of Nebraska, a member of the international Resilience Alliance, and a partner with the Sage Grouse Initiative and the USDA National Working Lands for Wildlife Science Team. Dirac specializes in large-scale resilience science and planning. His research aims to address many of the challenges of the future in ecosystems and to identify solutions to many undesirable transitions occurring today. He has developed a series of novel experiments and technologies – including fire-igniting drones, which are now being tested and used to fight wildfires, the extreme fire experiments, the first studies in rangelands to control, study, and understand fire in extreme conditions, and he recently has developed new technologies capable of screening for vegetation transitions, which borrows principles from medicine to screen for undesirable changes that do not yet show signs or symptoms of an environmental resource problem. Dirac is well-published, with 45 papers in peer-reviewed scientific journals and in top journals like *Science*, *Frontiers in Ecology and the Environment*, *Conservation Biology*, and *Applied Ecology*. He is a strong proponent of science for citizen and professional use and works alongside multiple landowner networks and supports agency decision-making across millions of acres of land. His academic training includes a Ph.D. at Texas A&M University, Masters and postdoctoral research at Oklahoma State, and a Bachelor's degree in Biology at the University of Missouri Science and Technology.

2019 OKNRC Oral Presentations
Wednesday, February 20, 2019

Session	Terrestrial and Aquatic Diseases in Oklahoma Seminar
Room	D
Moderator	Steven Smith – Noble Research Institute
1:30	Investigating fish in Oklahoma, <i>Ferrella March</i>
2:00	Tracking avian disease prevalence across environmental gradients in Oklahoma and east Texas, <i>Krisangel Lopez</i>
2:30	The ecology of tick-borne diseases and the role of wildlife hosts in the Oklahoma City metro area, <i>Megan Roselli</i>
2:50	Break
3:10	Ticks and Health: Should I care about that tick crawling up my leg?, <i>Bruce Noden</i>
3:40	Disease surveillance in Oklahoma feral swine, <i>Scott Alls</i>
4:10	Adjourn

Session	Women in Natural Resources
Room	B
Moderator	Priscilla Crawford
2:00	<p>Key Speakers</p> <p>Sara Hill - Secretary of Natural Resources for the Cherokee Nation</p> <p>Sue Fairbanks – Assistant Professor at OSU Natural Resource Ecology and Management, Co-Founder Wildlife-Domestic Animal Disease Research Initiative</p> <p>Jane Breckinridge – Director Euchee Butterfly Farm, Co-Director Tribal Alliance for Pollinators, Founder Natives Raising Natives Project</p>
3:00	<p>Q&A Panel</p> <p>With professional women in several natural resource professions in various stages of their careers</p> <p>Moderator – Jessa Watters</p>
4:00	<p>Social Hour</p> <p>Chat and network over snacks and beverages</p>
5:00	Adjourn

2019 OKNRC Oral Presentations

Thursday, February 21, 2019

Plenary Session	Challenges facing natural resource professionals: What is the future of natural resources management and science? (Room D) Sponsored by Groendyke and Bollenbach Endowed Chairs
Room	D
8:30	Welcome and Introduction – Vicki Jackson, Moderators – Craig Davis and Sam Fuhlendorf
8:35	Challenges and Opportunities for Future Fisheries Professionals: Basic Biology of Species, Long-term Studies, and Taking Good Field Notes – Dr. William Matthews:
9:05	Simplification of Rangelands Threatens Biodiversity Conservation – Dr. Torre Hovick
9:35	Forestry in the 21st century—resistance, resilience, and transition under changing climatic conditions – Dr. James M. Guldin
10:05	Managing for a future of uncertainty and change – Dr. Dirac Twidwell, Jr.
10:35	Discussion Panel
11:00	Break

2019 OKNRC Oral Presentations

Thursday, February 21, 2019

Session	Human Dimension	Fire Ecology	Water Quality
Room	B	C	D
Moderator	Mike Proctor, Noble Research Institute	Ken Gee, Oaks and Prairies Joint Venture	Dan Shoup, Oklahoma State University
11:20	Oklahoma's Deer Management Assistance Program <i>D. Barber</i>	It's a dry heat: quantifying effects of increasing atmospheric moisture demand on native Oklahoma trees <i>L. Wilson*, W. Hammond, H. Adams</i>	The effect of water quality on the mean relative weight of largemouth bass, crappie, and channel catfish in Oklahoma lakes <i>A. Griffin, B Hoagland, K. Kuklinski</i>
11:40	Forward March - A new commitment to protecting the Earth: volunteers needed <i>C. Cheadle</i>	A critical analysis of fire in Oklahoma: Is a universal approach, the right approach? <i>J Buck*, J. Cheek, C. King</i>	Prioritizing conservation efforts for maximum water quality benefits in Little Beaver Creek Watershed, OK <i>B. Rogers</i>
12:00	Insights on high-profile tournament bowfishers <i>J. Schooley, A. Geik, J. Johnston, R. Snow, D. Scarnecchia; K. Bostian</i>	<i>The influence of local fire history on sericea lespedeza invasion</i> <i>J. Howard</i>	Turbidity alters habitat use by bluegill <i>S. Molsen**, D. Shoup</i>

12:20	Lunch (Student/mentor must preregister for)		
Session	Human Dimension	Movement	Smallmouth Bass and Saugeye
Room	B	C	D
Moderator	Matt Fullerton, ODWC	Mike Porter, Noble Research Institute	Matt Mauck, ODWC
2:00	Potential economic impacts of management alternatives & factors associated with visitor satisfaction at Canton Lake, Oklahoma <i>A. Frakes**, O. Joshi</i>	Does intraguild avoidance occur in mesocarnivores? Temporal activity pattern analysis of mesocarnivores in southcentral Oklahoma <i>D. Premathilake*, V. Jackson</i>	Neosho smallmouth bass spawning movements and associated environmental conditions in a seasonally discontinuous Boston Mountain Stream <i>J. Martin, C. Gagen</i>
2:20	Human dimensions of black bear (<i>Ursus americanus</i>) management in eastern Oklahoma: an assessment of human values, attitudes, behaviors and population tolerances <i>M. Cleary*, O. Joshi, S. Fairbanks</i>	Autumn and winter movement of diminutive prairie fishes <i>D. Moore**, S. Brewer</i>	Growth comparisons for saugeye in Oklahoma Lakes <i>S. O'Donnell</i>
2:40	Woody plant management in the Southern Great Plains: Understanding the goal intentions and management actions of private landowners <i>K. Rajala, M. Sorice</i>	Monitoring and management of the Texas horned lizard on Tinker Air Force Base, Oklahoma City using harmonic radar tracking technology <i>M. Veszy*, R. Moody, J. Mook</i>	Effects of non-native rainbow trout on behavior and cover use by smallmouth bass <i>K. Brown**, R. Mollenhauer, S. Brewer</i>
3:00	Poster session / Break		

Poster Presentations (3:00 break)

Second Floor Foyer – Thursday, February 21, 2019

Author(s)	Title
<i>K. Schmidt, R. Will, C. Zou, E. Stebler, L. Zhong</i>	Tradeoff between water yield and biomass production associated with eastern redcedar encroachment into grassland ecosystems of northcentral Oklahoma
<i>W. Childress, S. Fairbanks, S. Lyda, K. Niedringhaus</i>	Mapping the distribution of the sarcoptic mange mite (<i>Sarcoptes scabiei</i>) in black bear (<i>Ursus americanus</i>) populations across the United States
<i>A. Kidd, V. Jackson</i>	Estimating occupancy of mesocarnivores through non-invasive survey methods: Pontotoc Ridge Preserve

<i>S. Coe, J. Elmore, S. Loss</i>	Abundance and proportion of sterilized free-ranging domestic cats following five years of a Trap-Neuter-Release program
<i>A. Whiteman, O. Joshi</i>	Preventing the further spread of kudzu in Oklahoma: A stakeholder perception analysis on best management practices (BMPs).
<i>S. Jeter, M. Porta, R. Snow</i>	Body size estimation and identification of twelve fish species using cleithrum bones
<i>N. Proudman, S. Fairbanks</i>	Assessing the distribution, trends and abundance of bobcats (<i>Lynx rufus</i>) in Oklahoma
<i>N. Shephard, C. Meek, O. Joshi, R. Will</i>	Drought, fertilization, and thinning effects on mid-rotation growth and canopy production in <i>Pinus taeda</i> plantations
<i>A. Adhikari, R. Will, O. Joshi, C. Zou</i>	Fire and climate impacts on understory productivity across a forest-savanna continuum
<i>J. Martin, T. Fox, D. Magoulick</i>	modeling potential climate change impacts on smallmouth bass distributions at the southern range extent
<i>N. Prentiss, S. Fairbanks</i>	Giving up density as an indicator of black bear (<i>Ursus americanus</i>) food preference in the Ouachita National Forest, Oklahoma
<i>C. Paden</i>	Germination techniques in five <i>Asclepias</i> species
<i>L. Lowe, K. Gee, J. Giocomo, S. Riley, W. Newman, D. Wiley, A. Matthews</i>	Grassland Restoration Incentive Program (GRIP) for landscape conservation in Oklahoma and Texas through the Oaks and Prairies Joint Venture Partnership
<i>B. Hoagland, T. Fagin</i>	Toward an 1871 land cover baseline: the Public Land Survey plats and bearing tree data in Oklahoma
<i>M. Sadir, K. Menard</i>	Population genetics of Linda's Roadside Skipper, <i>Amblyscirtes linda</i> Freeman (Hesperiidae: Hesperinae), in the Oklahoma Ouchita Mountains and South-East region of the state

Session	Birds	Eastern Redcedar Dynamics	Population
Room	B	C	D
Moderator	Scott Loss, Oklahoma State University	Will Moseley, Noble Research Institute	Ken Cunningham, ODWC
3:20	Habitat selection and thermal ecology of greater prairie-chicken <i>D. Londe*</i> , <i>D. Elmore</i> , <i>S. Fuhlendorf</i> , <i>C. Davis</i>	Status of eastern redcedar (<i>Juniperus virginiana</i>) encroachment and potential use in future bioproducts industry in Oklahoma <i>R. Kaur</i> , <i>O. Joshi</i> , <i>R. Will</i>	Age and growth of Catistomids in the Ozark Highlands <i>D. Zentner**</i> , <i>S. Brewer</i> , <i>D. Shoup</i>
3:40	Thermal ecology and habitat selection of scaled quail in New Mexico <i>K. Kauffman*</i> , <i>D. Elmore</i> , <i>C. Davis</i> , <i>S. Fuhlendorf</i> , <i>L. Goodman</i>	Kill it without fire: quantifying lethal drought stress for eastern redcedar, <i>Juniperus virginiana</i> <i>W. Hammond*</i> , <i>L. Wilson</i> , <i>J. Torres-Ruiz</i> , <i>H. Adams</i>	Local colonization and extinction of prairie chub <i>Machrybopsis australis</i> across wet-dry cycles in the upper Red River Basin <i>M. Wedgeworth**</i> , <i>R. Mollenhauer</i> , <i>S. Brewer</i>
4:00	Northern bobwhite responses to drought and woody cover in the Great Plains <i>S. Cady*</i> , <i>C. Davis</i> , <i>S. Fuhlendorf</i> , <i>L. Goodman</i> , <i>D. Elmore</i> , <i>R. Scholtz</i>	Encroachment of redcedar in the Cross Timbers oak forests: the cause and consequence <i>P. Torquato*</i> , <i>C. Zou</i> , <i>R. Will</i> , <i>H. Adams</i>	<i>Seasonal microhabitat selection by native fishes in Ozark streams</i> <i>S. Wolf**</i> , <i>R. Mollenhauer</i> , <i>E. Tanner</i> , <i>S. Fuhlendorf</i> , <i>S. Brewer</i>
4:20	Interannual variability in abundance of breeding birds in central Oklahoma <i>T. O'Connell</i> , <i>B. Simons</i> , <i>S. Cady</i> , <i>N. Jaffe</i> , <i>J. Giocomo</i>	A burning question: How much drought causes eastern redcedar to become more easily combustible? <i>J. Dudek*</i> , <i>H. Adams</i>	<i>Estimating detection probability using multiple gears to sample least darter</i> <i>D. Swedberg**</i> , <i>R. Mollenhauer</i> , <i>S. Brewer</i>
4:40	Assessing the influence of turbulence and olfactory cover at red-cockaded woodpecker nesting cavity trees <i>J. Elmore*</i> , <i>M. Fullerton</i> , <i>D. Fogarty</i> , <i>S. Loss</i>	Increase in soil moisture and runoff after eastern redcedar removal - a paired watershed study <i>Y. Zhong*</i> , <i>C. Zou</i> , <i>R. Will</i> , <i>E. Stebler</i> , <i>A. Saenz</i> , <i>G. Kakani</i>	<i>Evaluating the effectiveness of a statewide trophy length limit (762 mm) for Blue Catfish (ictalurus furcatus) in Oklahoma</i> <i>J. Duck</i>
5:00 to 6:00	Business Meetings (see page 2 for locations)		
6:00	Mixer (Tulsa Ballroom)		
6:30	Dinner, Awards and Auction (Tulsa Ballroom)		

2019 OKNRC Oral Presentations
Friday, February 22, 2019

Session	Invasive Species	Stream Fisheries	GIS Modeling
Room	B	C	D
Moderator	Brandon Reavis, NRCS	Sherylann Densow, ODWC	Vicki Jackson, University of Central Oklahoma
8:00	Testing the effectiveness of sampling environmental DNA to detect the presence of aquatic invasive plants. <i>P. Crawford, J. Watters</i>	Population and community trends of the Arkansas river shiner (<i>notropis girardi</i>) and peppered chub (<i>macrhybopsis tetranema</i>) <i>J. Fisher, D. Fenner</i>	The creation, design, and implementation of the Oklahoma Department of Wildlife Conservation's Online Interactive Fish Attractor Map <i>C. Whisenhunt</i>
8:20	<i>Lespedeza cuneata</i> density affects carbon, nitrogen, and organic matter in tallgrass prairie ecosystems <i>J. Kaplan***, K. Braum</i>	A gene flow management plan for the federally-threatened leopard darter <i>D. Fenner, B. Fillmore</i>	Oklahoma observatory for agriculture, forestry and water resources: An update in 2018 <i>X. Xiao, Y. Qin, J. Wang, Z. Zou, X. Wu, R. Doughty</i>
8:40	Analyzing sericea lespedeza (<i>Lespedeza cuneata</i>) management practices: Can herbicides be used to enhance invasion mitigation provided by ecological processes? <i>C. Sherrill***, S. Fuhlendorf, L. Goodman, D. Elmore, B. Hamilton</i>	The evolution of the leopard darter (<i>percina pantherina</i>) monitoring program 1992 to present <i>R. Standage, K. Collins</i>	Validation of a rapid assessment method for determining the condition of floodplain wetlands in Oklahoma <i>A. Thornton, C. Davis, B. Tramell, D. Dvoretz, S. Gallaway</i>
9:00	Predicting potential range expansion of invasive <i>Pueraria montana</i> in the southcentral United States under future climate scenarios <i>P. Harron***, O. Joshi, S. Paudel, S. Loss, K. Hickman</i>	The results of the leopard darter (<i>percina pantherina</i>) monitoring program 1998 to present <i>R. Standage</i>	Life-history strategies as a potential mechanism for linking demography to habitat suitability indices <i>E. Tanner, J. Orange, C. Davis, S. Fuhlendorf, D. Elmore</i>
9:20	Attempting biological control of white perch in Oklahoma: Setting a benchmark to evaluate success <i>A. Nealis</i>	Preliminary results of environmental DNA (eDNA) screening for reptiles and amphibians of Oklahoma <i>J. Watters, E. Freitas, T. Yuri, C. Siler</i>	The diet selection and grazing distribution of beef cattle with varying residual feed intake efficiency scores <i>L. Goodman, N. Craun, J. Neel, R. Rueter, K. Hickman</i>
9:40	Assessing potential effects of nonnative rainbow trout on seasonal	Habitat factors affecting Arkansas river shiner and peppered chub in	Oklahoma's Wetland Program Plan: A collaborative approach to wetland management

	diets of Neosho smallmouth bass and redspot chub <i>A. Rodger, T. Starks, D. King, J. Burroughs</i>	southern great plains rivers-past, present, and future. <i>L. Levesque, D. Fenner, M. Horner, J. Fisher</i>	<i>D. Dvoretz</i>
10:00	Break		

Session	Species of Concern	Conservation Programs	Response Management
Room	B	C	D
Moderator	Russ Horton, ODWC	Mark Howery, ODWC	Corey Jager, ODWC
10:20	Paddlefish Snagging at Fort Gibson Dam: A Unique Fishery in Oklahoma <i>A. Geik, J. Schooley, B. Brown</i>	Land acquisition and the need for public lands and access <i>K. Gillman</i>	Oklahoma Kill Response Management Team (OKRMT): A collaborative response to fish kills in Oklahoma <i>F. March</i>
10:40	American burying beetle species status assessment - Current and projected status and risks <i>K. Stubbs, J. Fisher</i>	Wildlife diversity inventories on Oklahoma Department of Wildlife Conservation Wildlife Management Areas <i>M. Howery, C. Tackett, M. Fullerton, J. Donnell</i>	Oklahoma Response and Management Team: J&M Response Success Story <i>S. Dunn</i>
11:00	Assessment of the conservation status of two freshwater mussels (<i>Bivalvia: unionoida</i>) occurring in Oklahoma: the Louisiana pigtoe (<i>Pleurobema riddlellii</i>) and the purple lilliput (<i>Toxolasma lividum</i>) <i>D. Martinez</i>	Leveraging every dollar to have the greatest impact on the resource. <i>K. Gillman</i>	<i>Oklahoma Invasive Plant Council Meeting</i>
11:20	Post-fledging movements of bald eagle from nests in Oklahoma <i>R. Horton, J. Cooper, T. Grubb, M. Braham, T. Miller, T. Katzner</i>	Implementation of a national survey protocol to inform and evaluate local management: Integrated waterbird management and monitoring at four national wildlife refuges in Oklahoma	

		<i>P. Schmidt, J. Burton, G. Hensley, L. Feltman, D. Unruh, A. Zimmerman, R. Cantu, S. Kasson, D. Taylor, R. Schutes</i>	
11:40			
12:00	Adjourn		

*Students competing for the TWS Student Presentation Award

**Students competing for the AFS Student Presentation Award

***Students competing for the OKIPC Student Presentation Award