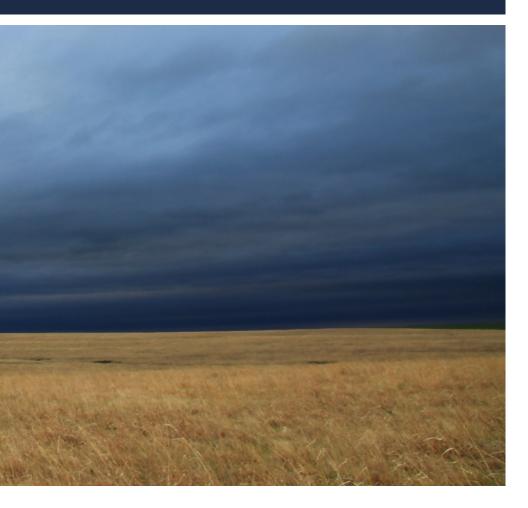
OKLAHOMA NATURAL RESOURCES CONFERENCE

FEBRUARY 20-22, 2019 TULSA, OK







\rightarrow HOSTED BY

THE OKLAHOMA CHAPTERS OF:

The Wildlife Society American Fisheries Society Society for Range Management Invasive Plant Council Society of American Foresters Prescribed Fire Council

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THE POWER OF SUSTAINABLE AGRICULTURE

Soil health practices across the U.S. not only have the potential to improve water quality in our streams also the potential to reduce **389 million tons of carbon dioxide** per year, equivalent to the pollution from nearly **85 million cars and trucks** on the road.



→ SCHEDULE-AT-A-GLANCE WEDNESDAY 2/20

| 10:00am - 12:00pm | Seminar A/V Setup | Rooms B & D |
|--|---|------------------------------------|
| 1:00pm - 2:00pm | OKNRC Registration | 2nd Floor Foyer |
| 1:30pm - 4:30pm | Terrestrial and Aquatic Diseases in Oklahoma Seminar | Room D |
| 2:00pm - 5:00pm | Women in Natural Resources | Room B |
| 4:00pm - 6:00pm | A/V Set-up for Presenters | 2nd Floor Foyer |
| 5:30pm - 6:30pm | OKNRC Registration | 2nd Floor Foyer |
| 6:30pm - 9:00pm | Mixer | 2nd Floor Foyer |
| | | |
| THURSDAY | 2/21 | |
| THURSDAY 7:30am - 11:40am | 2/21 Registration | 2nd Floor Foyer |
| | _/ | 2nd Floor Foyer 2nd Floor Foyer |
| 7:30am - 11:40am | Registration | |
| 7:30am - 11:40am 7:30am - 5:00pm | Registration A/V Set-up for presenters | 2nd Floor Foyer |
| 7:30am - 11:40am 7:30am - 5:00pm 8:00am - 5:00pm | Registration A/V Set-up for presenters Poster Session | 2nd Floor Foyer 2nd Floor Foyer |

| 11:20am - 12:20pm | Fire Ecology | Room C |
|-------------------|--------------------------------|--|
| 11:20am - 12:20pm | Water Quality | Room D |
| 12:20pm - 2:00pm | Lunch (Student/Mentor M | ust Pre-register) |
| 2:00pm - 3:00pm | Human Dimension | Room B |
| 2:00pm - 3:00pm | Movement | Room C |
| 2:00pm - 3:00pm | Smallmouth Bass | Room D |
| 2:00pm - 5:00pm | Registration | 2nd Floor Foyer |
| 3:00pm - 3:20pm | Poster Session | Break |
| 3:20pm - 5:00pm | Birds | Room B |
| 3:20pm - 5:00pm | Eastern Redcedar Dynamics | Room C |
| 3:20pm - 5:00pm | Population | Room D |
| 5:00pm - 6:00pm | Business Meetings | TWS - Room A AFS - Room B SRM - Room D |
| 6:00pm | Mixer | Tulsa Ballroom |
| 6:30pm - 9:00pm | Dinner, Awards, and Auction | Tulsa Ballroom |
| FRIDAY | 2/22 | |
| 7:30am - 9:00am | Registration | 2nd Floor Foyer |
| 7:30am - 9:00pm | A/V Set-up for presenters | 2nd Floor Foyer |
| 8:00am - 10:00am | Invasive Species | Room B |
| 8:00am - 10:00am | Stream Fisheries | Room C |
| | | |

| 8:00am - 10:00am | GIS Modeling | Room D |
|-------------------|--|--------|
| 10:00am - 10:20pm | Break | |
| 10:20am - 12:00pm | Species of Concern | Room B |
| 10:20am - 12:00pm | Conservation Programs | Room C |
| 10:20am - 11:00am | Responsive Management | Room D |
| 11:00am | Oklahoma Invasive Plant Council Meeting | Room D |
| 12:00pm | Adjourn | |

Oklahoma State Chapter of the National Wild Turkey Federation



When the National Wild Turkey Federation was founded in 1973, there were about 1.5 million wild turkeys in North America. After decades of work, that number hit an historic high of almost 7 million turkeys. To succeed, the NWTF stood behind science-based conservation and hunters' rights. Thanks to the efforts of dedicated volunteers, professional staff and committed partners, the NWTF has facilitated the investment of 5488 million in wildlife conservation and the preservation of North America's huming heritaga. The NWTF has improved more than 17 million acres of wildlife habitat and introduce 100,000 people to the outdoors each year. The NWTF Save the Habitat. Save the Hunt. initiative is a charge that mobilizes science, fundraising and devoted volunters to raise 51.2 billion to conserve and enhance more than 4 million acres of essential wildlife habitat, recruit at least 1.5 million hunters and open access to 500,000 acres for hunting. The WWTF is well on its way to meet or exceed these qoals. For more information, wist NWTF.org.

→ PLENARY SPEAKERS

DR. WILLIAM MATTHEWS

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

Dr. William Matthews was Professor at the University of Oklahoma from 1979 to 2016. He is now Professor Emeritus in the Biology Department at OU. He taught ichthyology, fish biology, ecology, and various fish courses at the OU Biological Station. He received his BSE and MS from Arkansas State University, and PhD from OU. Dr. Matthews was an Officer in the US Army from 1968 to 1970. He taught at Roanoke College, Virginia from 1977 to 1979, then returned to OU as Assistant Professor in 1979. He spent 15 years in residence at the OU Biological Station at Lake Texoma, with extensive studies of striped bass, predator-prey interactions, and fish communities in the reservoir. He also did long-term studies of fish communities in Brier Creek, OK, and Piney Creek, AR, now with more than 40 years evaluating changes in fish community structure in both systems. He has more than 100 published papers on fishes in Oklahoma, Arkansas, and the Midwest; three books, including "Patterns in Freshwater Fish Ecology" with Edie Marsh-Matthews and "Stream Fish Community Dynamics: A Critical Synthesis." He has served as President of the American Society of Ichthyologists and Herpetologists (ASIH) and of the Southwestern Association of Naturalists (SWN); curator of Fishes at Sam Noble Oklahoma Museum of Natural History from 1982 to 2003; and chairman of the OU Zoology Department (2003-2011). Dr. Matthews 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. He continues to collaborate with Edie Marsh-Matthews on long-term studies of stream fishes and in writing papers from 40+ years of shared data.

→ PLENARY SPEAKERS

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.





→ PLENARY SPEAKERS

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.

→ ORAL PRESENTATIONS Wednesday 2/20

| Session Terrestrial and Aquatic Diseases in Oklahoma Seminar Moderator: Steven Smith, Noble Research Institute Room D | | | |
|--|---|--|--|
| 1:30pm | Investigating Fish in Oklahoma Ferrella March | | |
| 2:00pm | Tracking Avian Disease Prevalence Across Environmental Gradients in Oklahoma and East Texas Krisangel Lopez | | |
| 2:30pm | The Ecology of Tick-Borne Diseases and the Role of Wild- life Hosts in the Oklahoma City Metro Area Megan Roselli | | |
| 2:50pm | Break | | |
| 3:10pm | Ticks and Health: Should I Care About that Tick Crawling Up My Leg? Bruce Noden | | |
| 3:40pm | Disease Surveillance in Oklahoma Feral Swine Scott Alls | | |
| 4:30pm | Adjourn | | |
| Session Women in Natural Resources Moderator: Priscilla Crawford, Oklahoma University Biological Survey | | | |

Room B

| 2:00pm | Keynote Speakers: Sara Hill - Secretary of Natural Resources for the Cherokee Nation |
|--------|--|
| | Sue Fairbanks - Assistant Professor at OSU NREM, |
| | Co-Founder Wildlife-Domestic Animal Disease Research Initiative |
| | Jane Breckinridge – Director Euchee Butterfly Farm, Co-Di- |
| | rector Tribal Alliance for Pollinators, Founder Natives Raising Natives Project |

| 3:00pm | Q&A Panel: With Professional Women in Several Natural Resource Professions in Various Stages of their Careers Moderator – Jessa Watters |
|---------|--|
| 4:00pm | Social Hour: Chat and Network Over Snacks and Beverages |
| 5:00pm | Adjourn |
| THURSDA | ^r 2/21 |
| - | Plenary Session Facing Natural Resource Professionals: What Is the Future of Natural Resources Management and Science? Moderators: Craig Davis and Sam Fuhlendorf nsored By Groendyke and Bollenbach Endowed Chairs*** Room D |
| 8:30am | Welcome and Introduction Vicki Jackson |
| 8:35am | Challenges and Opportunities for Future Fisheries Professionals: Basic Biology of Species, Long-Term Studies, and Taking Good Field Notes Dr. William Matthews |
| 9:05am | Simplification of Rangelands Threatens Biodiversity Conservation Dr. Torre Hovick |
| 9:35am | Forestry in the 21St Century- Resistance, Resilience, and Transition Under Changing Climatic Conditions Dr. James M. Guldin |
| 10:05am | Managing for A Future of Uncertainty and Change Dr. Dirac Twidwell, Jr. |
| 10:35am | Discussion Panel |
| 11:00am | Break |

| Session | Human Dimensions | Fire Ecology | Water Quality |
|-----------|---|---|---|
| Room | В | С | D |
| Moderator | Mike Proctor Noble Research Institute | Ken Gee Oaks and Prairies Joint Venture | Dan Shoup Oklahoma State University |
| 11:20am | Oklahoma's Deer Management Assistance Program D. Barber | It's A Dry Heat: Quantifying Effects of Increas- ing Atmospheric Moisture Demand on Native Oklahoma Trees L. Wilson*, W. Hammond, H. Adams | The Effect of Water Quality on the Mean Relative Weight of Largemouth Bass, Crappie, and Channel Catfish in Oklahoma Lakes A. Griffin, B Hoagland, K. Kuklinski |
| 11:40am | Forward March - A New Commitment to Protecting the Earth: Volunteers Needed C. Cheadle | A Critical Analysis of Fire in Oklahoma: Is A Universal Approach, the Right Approach? J. Buck*, J. Cheek, C. King | Prioritizing Conservation Efforts for Maximum Water Quality Benefits in Little Beaver Creek Watershed, OK B. Rogers |
| 12:00pm | Insights on High-Profile Tournament Bowfishers J. Schooley, A. Geik, J. Johnston, R. Snow, D. Scarnecchia, K. Bostian | The Influence of Local Fire History on Sericea Lespedeza Invasion J. Howard | Turbidity Alters Habitat Use By Bluegill S. Molsey**, D. Shoup |
| 12:20pm | Lunch (Student/Mentor Must Pre-register) | | |

| Human Dimensions | Movement | Smallmouth Bass and Saugeye |
|--|--|---|
| В | С | D |
| Matt Fullerton ODWC | Mike Porter Noble Research Institute | Matt Mauck ODWC |
| Potential Econom- ic Impacts of Man- agement Alter- natives & Factors Associated With Visitor Satisfac- tion at Canton Lake, Oklahoma A. Frakes**, O. Joshi | Does Intraguild Avoidance Occur in Mesocarni- vores? Temporal Activity Pattern Analysis of Me- socarnivores in South central Oklahoma D. Premathilake*, V. Jackson | Neosho Smallmouth Bass Spawning Move- ments and Associ- ated Environmen- tal Conditions in a Seasonally Discon- tinuous Boston Mountain Stream J. Martin, C. Gagen |
| Human Dimen- sions of Black Bear (Ursus amer- icanus) Manage- ment in Eastern Oklahoma: An Assessment of Human Values, At- titudes, Behaviors and Population Tolerances M. Cleary*, O. Joshi, S. Fairbanks | Autumn and Winter Movement of Diminutive Prairie Fishes D. Moore**, S. Brewer | Growth Comparisons for Saugeye in Oklahoma Lakes S. O'donnell |
| Woody Plant Management in the Southern Great Plains: Un- derstanding the Goal Intentions and Management Actions of Private Landowners K. Rajala, M. Sorice | Monitoring and Management of the Texas Horned Lizard on Tinker Air Force Base, Oklahoma City Using Harmonic Radar Tracking Technology M. Vesy*, R. Moody, J. Mook | Effects of Non-Native Rainbow Trout on Behavior and Cover Use By Smallmouth Bass K. Brown**, R. Mollenhauer, S. Brewer |
| , P | 3 | k |
| | DimensionsBMatt Fullerton ODWCPotential Econom- ic Impacts of Man- agement Alter- natives & Factors Associated With Visitor Satisfac- tion at Canton Lake, Oklahoma A. Frakes**, O. JoshiHuman Dimen- sions of Black Bear (Ursus amer- icanus) Manage- ment in Eastern Oklahoma: An Assessment of Human Values, At- titudes, Behaviors and Population Tolerances M. Cleary*, O. Joshi, S. FairbanksWoody Plant Management in the Southern Great Plains: Un- derstanding the Goal Intentions and Management Actions of Private Landowners K. Rajala, M. Sorice | DimensionsCBCMatt Fullerton ODWCMike Porter Noble Research InstitutePotential Econom- ic Impacts of Man- agement Alter- natives & Factors Associated With Visitor Satisfac- tion at Canton Lake, Oklahoma A. Frakes**, O. JoshiDoes Intraguild Avoidance Occur in Mesocarni- vores? Temporal Activity Pattern Analysis of Me- socarnivores in South central Oklahoma D. Premathilake*, V. JacksonHuman Dimen- sions of Black Bear (Ursus amer- icanus) Manage- ment in Eastern Oklahoma: An Assessment of Human Values, Att- titudes, Behaviors and Population Tolerances M. Cleary*, O. Joshi, S. FairbanksAutumn and Winter Movement of prairie Fishes D. Moore**, S. BrewerWoody Plant Management in the Southern Great Plains: Un- derstanding the Goal Intentions and Management Actions of Private Landowners K. Rajala, M. SoriceMonitoring and Manage M. Vesy*, R. |

| Session | Birds | Eastern Redcedar Dynamics | Population |
|-----------|--|--|--|
| Room | В | С | D |
| Moderator | Scott Loss Oklahoma State University | Will Moseley Noble Research Institute | Ken Cunningham ODWC |
| 3:20pm | Habitat Selection and Thermal Ecology of Greater Prairie-Chicken D. Londe*, D. Elmore, S. Fuhlendorf, C. Davis | Status of Eastern Redcedar (Juni- perus virginiana) Encroachment and Potential Use in Future Bioproducts Industry in Oklahoma R. Kaur, O. Joshi, R. Will | Age and Growth of Catistomids in the Ozark Highlands D. Zentner**, S. Brewer, D. Shoup |
| 3:40pm | Thermal Ecology and Habitat Selection of Scaled Quail in New Mexico K. Kauffman*, D. Elmore, C. Davis, S. Fuhlendorf, L. Goodman | Kill It Without Fire: Quantifying Lethal Drought Stress for Eastern Redcedar, (Juniperus virginiana) W. Hammond*, L. Wilson, J. Torres-Ruiz, H. Adams | Local Colonization and Extinction of Prairie Chub Machrybopsis Australis Across Wet-Dry Cycles in The Upper Red River Basin M. Wedgeworth**, R. Mollenhauer, S. Brewer |
| 4:00pm | Northern Bobwhite Responses to Drought and Woody Cover in the Great Plains S. Cady*, C. Davis, S Fuhlendorf, L. Goodman, D. Elmore, R. Scholtz | Encroachment of Redcedar in the Cross Timbers Oak Forests: the Cause and Consequence P. Torquato*, C. Zou, R. Will, H. Adams | Seasonal Microhabitat Selection By Native Fishes in Ozark Streams S. Wolf**, R. Mollenhauer, E. Tanner, S. Fuhlendorf, S. Brewer |

| 4:20pm | Interannual Variability in Abundance of Breeding Birds in Central Oklahoma T. O'Connell, B. Simons, S. Cady, N. Jaffe, J. Giocomo | A Burning Question: How Much Drought Causes Eastern Redcedar to Become More Easily Combustible? J. Dudek*, H. Adams | Estimating Detection Probability Using Multiple Gears to Sample Least Darter D. Swedberg**, R. Mollenhauer, S. Brewer |
|--------|---|--|--|
| 4:40pm | Assessing the Influence of Turbulence and Olfactory Cover at Red-Cockaded Woodpecker Nesting Cavity Trees J. Elmore*, M. Fullerton, D. Fogarty, S. Loss | Increase in Soil Moisture and Runoff After Eastern Redce- dar Removal - A Paired Watershed Study Y. Zhong*, C. Zou, R. Will, E. Stebler, A. Saenz, G. Kakani | Evaluating the Effectiveness of A Statewide Trophy Length Limit (762 mm) for Blue Catfish (Ictalurus furcatus) in Oklahoma J. Duck |

FRIDAY

2/22

| Session | Invasive Species | Stream Fisheries | GIS Modeling |
|-----------|--|---|--|
| Room | В | С | D |
| Moderator | Brandon Reavis NRCS | Sherylann Densow ODWC | Vicki Jackson University of Central Oklahoma |
| 8:00am | Testing the Effectiveness of Sampling Environmental DNA to Detect the Presence of Aquatic Invasive Plants P. Crawford, J. Watters | Population and Community Trends of the Arkansas River Shiner (Notropis girardi) and Peppered Chub (Macrhybop- sis tetranema) J. Fisher, D. Fenner | The Creation, Design, and Implementation of the Oklahoma Department of Wildlife Conservation's Online Interactive Fish Attractor Map C. Whisenhunt |

| 8:20am | Lespedeza Cuneata Density Affects Carbon, Nitrogen, and Organic Matter in Tallgrass Prairie Ecosystems J. Kaplan***, K. Baum | A Gene Flow Management Plan for the Federally- Threatened Leopard Darter D. Fenner, B. Fillmore | Oklahoma Observatory for Agriculture, Forestry and Water Resources: An Update in 2018 X. Xiao, Y. Qin, J. Wang, Z. Zou, X. Wu, R. Doughty |
|--------|--|---|---|
| 8:40am | Analyzing Sericea Lespedeza (Les- pedeza cuneata) Management Practices: Can Herbicides Be Used to Enhance Invasion Mitiga- tion Provided By Ecological Processes? C. Sherrill***, S. Fuhlendorf, L. Goodman, D. Elmore, B. Hamilton | The Evolution of the Leopard Darter (Percina pantherina) Monitoring Program 1992 to Present R. Standage, K. Collins | Validation of A Rapid Assessment Method for Determining the Condition of Floodplain Wetlands in Oklahoma A. Thornton, C. Davis, B. Tramell, D. Dvorett, S. Gallaway |
| 9:00am | Predicting Potential Range Expansion of Invasive Pueraria Montana in the Southcentral United States Under Future Climate Scenarios P. Harron***, O. Joshi, S. Paudel, S. Loss, K. Hickman | The Results of the Leopard Darter (<i>Percina</i> <i>pantherina</i>) Monitoring Program 1998 to Present R. Standage | Oklahoma's Wetland Program Plan: A Collaborative Approach to Wetland Management D. Dvorett |

| 9:20am | Attempting Bi- ological Control of White Perch in Oklahoma: Setting A Benchmark to Evaluate Success A. Nealis | Preliminary Results of Environmental DNA (Edna) Screening for Reptiles and Amphibians of Oklahoma J. Watters, E. Freitas, T. Yuri, C. Siler | |
|-----------|---|--|--|
| 9:40am | Assessing Potential Effects of Nonnative Rainbow Trout on Seasonal Diets of Neosho Smallmouth Bass and Redspot Chub A. Rodger, T. Starks, D. King, J. Burroughs | Habitat Factors Affecting Arkansas River Shiner and Peppered Chub in Southern Great Plains Rivers-Past, Present, and Future L. Levesque, D. Fenner, M. Horner, J. Fisher | |
| 10:00am | Break | | |
| Session | Species of Concern | Conservation Programs | Response Management |
| Room | В | С | D |
| Moderator | Russ Horton ODWC | Mark Howery ODWC | Corey Jager ODWC |
| 10:20 | Paddlefish Snagging at Fort Gibson Dam: A Unique Fishery in Oklahoma A. Geik, J. Schooley, B. Brown | Land Acquisition and the Need for Public Lands and Access K. Gillman | Oklahoma Kill Response Management Team (OKRMT): A Collaborative Response to Fish Kills in Oklahoma F. March |

| 10:40 | American Burying Beetle Species Status Assessment - Current and Projected Status and Risks K. Stubbs, J. Fisher | Wildlife Diversity Inventories on ODWC Wildlife Management Areas M. Howery, C. Tackett, M. Fuller- ton, J. Donnell | Oklahoma Response and Management Team: J&M Response Success Story S. Dunn |
|-------|--|---|---|
| 11:00 | Assessment of the Conservation Status of Two Freshwater Mussels (<i>Bivalvia:</i> <i>unionoida</i>) Occur- ring in Oklahoma: the Louisiana Pigtoe (<i>Pleurobe-</i> <i>ma riddlellii</i>) and the Purple Lilliput (<i>Toxolasma</i> <i>lividum</i>) D. Martinez | Leveraging Every Dollar to Have the Greatest Impact on the Resource K. Gillman | Oklahoma Invasive Plant Council Meeting |
| 11:20 | Post-Fledging Movements of Bald Eagle From Nests in Oklahoma R. Horton, J. Cooper, T. Grubb, M. Braham, T. Miller, T. Katzner | Implementation of A National Survey Protocol to Inform and Evaluate Local Manage- ment: Integrated Waterbird Man- agement and Monitoring at Four National Wildlife Refuges in Oklahoma P. Schimidt, J. Burton, G. Hensley, L. Feltman, D. Unruh, A. Zimmer- man, R. Cantu, S. Kasson, D. Taylor, R. Schutes | |
| 12:00 | Adjourn | | <u> </u> |

*Students Competing for the TWS Student Presentation Award **Students Competing for the AFS Student Presentation Award ***Students Competing for the OkIPC Student Presentation Award

→ POSTER PRESENTATIONS

THURSDAY

2/21

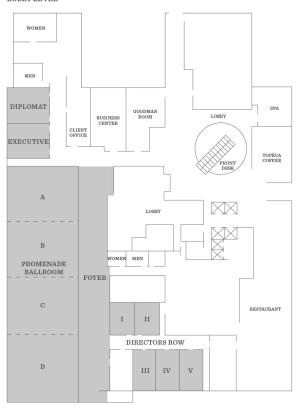
| Second Floor Foyer 3:00pm | | | | |
|---|--|--|--|--|
| Title | Author(s) | | | |
| Tradeoff Between Water Yield and Biomass Production Associated With Eastern Redcedar Encroachment Into Grassland Ecosystems of Northcentral Oklahoma | K. Schmidt, R. Will, C. Zou, E. Stebler, L. Zhong | | | |
| Mapping the Distribution of the Sarcoptic Mange Mite (<i>Sarcoptes scabeie</i>) in Black Bear (<i>Ursus americanus</i>) Populations Across the United States | W. Childress, S. Fairbanks, S. Lyda, K. Niedringhaus | | | |
| Estimating Occupancy of Mesocarnivores Through Non-Invasive Survey Methods: Pontotoc Ridge Preserve | A. Kidd, V. Jackson | | | |
| Abundance and Proportion of Sterilized Free-Ranging Domestic Cats Following Five Years of A Trap-Neuter-Release Program | S. Coe, J. Elmore, S. Loss | | | |
| Preventing the Further Spread of Kudzu in Oklahoma: A Stakeholder Perception Analysis on Best Management Practices (BMPS) | A. Whiteman, O. Joshi | | | |
| Body Size Estimation and Identification of Twelve Fish Species Using Cleithrum Bones | S. Jeter, M. Porta, R. Snow | | | |
| Assessing the Distribution, Trends and Abundance of Bobcats (<i>Lynx rufus</i>) in Oklahoma | N. Proudman, S. Fairbanks | | | |
| Drought, Fertilization, and Thinning Effects on Mid-Rotation Growth and Canopy Production in (<i>Pinus taeda</i>) Plantations | N. Shephard, C. Meek, O. Joshi, R. Will | | | |
| Fire and Climate Impacts on Understory Pro- ductivity Across A Forest-Savanna Continuum | A. Adhikari, R. Will, O. Joshi, C. Zou | | | |

| Modeling Potential Climate Change Impacts on Smallmouth Bass Distributions at the Southern Range Extent | J. Martin, T. Fox, D. Magoulick |
|---|--|
| Giving Up Density As An Indicator of Black Bear (<i>Ursus americanus</i>) Food Preference in the Ouachita National Forest, Oklahoma | N. Prentiss, S. Fairbanks |
| Germination Techniques in Five Asclepias Species | C. Paden |
| Grassland Restoration Incentive Program (GRIP) For Landscape Conservation in Oklahoma and Texas Through the Oaks and Prairies Joint Venture Partnership | L. Lowe, K. Gee, J. Giocomo, S. Riley, W. Newman, D. Wiley, A. Matthews |
| Toward An 1871 Land Cover Baseline: the Public Land Survey Plats and Bearing Tree Data in Oklahoma | B. Hoagland, T. Fagin |
| Population Genetics of Linda's Roadside Skipper, Amblyscirtes Linda Freeman (Hespe- riidae: Hesperiinae), in the Oklahoma Ouchita Mountains and South-East Region of the State | M. Sadir, K. Menard |



\rightarrow MAP

SECOND FLOOR LOBBY LEVEL





→ 2019 PLANNING COMMITTEE

Vicki Jackson The Wildlife Society Kristen Gillman The Wildlife Society **Josh Richardson** The Wildlife Society **Brandon Reavis** Society for Range Management **Alex Schwartz** Society of American **Foresters** Priscilla Crawford Invasive Plant Council **Craig Davis** The Wildlife Society

Blayr Gourley Society for Range Management Matt Mauck American Fisheries Society **Ashley Nealis** American Fisheries Society P. J. Martin Society for Range Management Ken Cunningham American Fisheries Society Colin Walden Society for Range Management **Steven Smith** Prescribed Fire Council



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