



“Protecting Water Supplies for People and the Environment”

Arkansas Water Resources Center Annual Water Conference
Fayetteville Town Center, Fayetteville, AR
July 25-26, 2017

Register Now!

Tuesday July 25, 2017

7:00 – 8:30 Check-in, Coffee, Juice, Pastries

8:30 – 9:40 Session 1: Protecting Water Supplies

8:30 Conference Welcome and Introduction

Brian Haggard, Arkansas Water Resources Center, University of Arkansas Department of Biological and Agricultural Engineering

8:40 The State of Water: Attitudes, Perceptions, and Policy Preferences in Arkansas

Rachael Moyer, University of Arkansas Public Policy Program

8:55 Source Water Protection: Beaver Water District’s Watershed Investment Program

James McCarty, Beaver Water District

9:10 Why We Burn: Prescribed Fire as a Water Quality Management Tool

Randy Easley, Central Arkansas Water

9:25 Intensive Community Engagement to Achieve Sustainable Sourcewater Protection and Watershed Restoration

John Pennington, Beaver Watershed Alliance

9:40 – 10:10 Networking Break

10:10 – 11:30 Session 2: Science and Policy in the Illinois River Watershed

10:10 The Oklahoma-Arkansas Joint Phosphorus Study

Ryan King, Baylor University Department of Biology

10:30 Bioavailability of Dissolved Organic Carbon in Ozark Highland Streams Varies Across Gradients of Anthropogenic Sources

Caleb Robbins, Baylor University Department of Biology

10:45 Productivity Drives Sharp Reductions in Diversity of Macroinvertebrate Assemblages in Rivers of the Ozark Highlands

Stephen Cook, Baylor University Department of Biology

11:00 Innovative Approaches to Watershed Management

Nicole Hardiman, Illinois River Watershed Partnership

11:15 The Criteria Is Recommended, So Where Is The Illinois River Now?

Brian Haggard, Arkansas Water Resources Center, University of Arkansas Department of Biological and Agricultural Engineering

11:30 – 1:30 Lunch (provided) and Poster Session

1:30 – 2:30 Session 3: Current Research from the US Geological Survey

- 1:30 An Evaluation of Continuous Monitoring Data for Assessing Dissolved Oxygen in the Boston Mountains, Arkansas
Billy Justus, US Geological Survey Lower Mississippi-Gulf Water Science Center
- 1:45 A Rare Uroglena Bloom in Beaver Lake, Arkansas, Spring 2015
Reed Green, US Geological Survey Lower Mississippi-Gulf Water Science Center
- 2:00 Mississippi Delta, Groundwater, Modeling, Monitoring, and Optimization
Jeannie Barlow, US Geological Survey Lower Mississippi-Gulf Water Science Center
- 2:15 USGS Groundwater Availability Initiatives in the Ozarks and Mississippi Alluvial Plain
Brian Clark, US Geological Survey Lower Mississippi-Gulf Water Science Center

2:30 – 3:00 Networking Break

3:00 – 4:30 Session 4: Water Management for Agricultural Irrigation

- 3:00 The Use of Irrigation Practices by Arkansas Producers, the Impacts and Influencing Factors
Yefan Nian, University of Arkansas Department of Agricultural Economics and Agribusiness
- 3:15 Influence of Irrigation Water Sources on Reservoir and Tailwater Recovery Adoption
Kent Kovacs, University of Arkansas Department of Agricultural Economics and Agribusiness
- 3:30 Evaluation of Agricultural Tailwater Quality for Irrigation in Red Bayou Watershed in Northwest LA
Changyoon Jeong, Louisiana State University Ag Center
- 3:45 On-farm Scale Strategies for the Reuse of Agricultural Runoff as Irrigation Water in Rice-Soybean Fields in Louisiana
Ernest Girouard, Louisiana State University Ag Center
- 4:15 Research and extension innovations to improve agricultural and natural resources sustainability
Beth Baker, Mississippi State University Department of Wildlife, Fisheries and Aquaculture

7:00 Evening Social at Marley's Pizzeria



Wednesday July 26, 2017

7:45 Check-in, Coffee, Juice, Pastries

8:30 – 10:00 Session 5: Water Quality in Agriculture

- 8:30 Effect of Environmentally Smart Nitrogen (ESN) on Forage Production and Nitrate Runoff in Ryegrass Pastures
D. Morgan, Louisiana State University Ag Center
- 8:45 Land Application Effects of a High-Calcium Dry Flue Gas Desulfurization By-product on Plant Uptake of Trace Elements and Runoff Quality
Jason Burgess-Conforti, University of Arkansas Environmental Dynamics Program
- 9:00 Lake St. Joseph – Improvements in Water Quality and Best Management Practices
Lisa Fultz, Louisiana State University Ag Center
- 9:15 Edge-of-field Monitoring for Discovery Farms
Mike Daniels, University of Arkansas Department of Crop, Soil, and Environmental Sciences
- 9:30 Discovery Farms Shed Light on Conservation Effectiveness and Agriculture's Role in Nutrient Trading Programs for Arkansas
Andrew Sharpley, University of Arkansas Department of Crop, Soil, and Environmental Sciences
- 9:45 Concentration of Herbicides in Tailwater Recovery Systems and Impact on Sensitive Crops
Matthew N. Thompson, University of Arkansas Department of Crop, Soil, and Environmental Sciences

10:00 – 10:30 Networking Break

10:30 – 11:30 Session 6: Urban Water Management

- 10:30 Municipal Water Conservation Programming in Oklahoma
Justin Quetone Moss, Oklahoma State University Department of Horticulture and Landscape Architecture
- 10:45 Realizing our Sustainability Potential: Utilizing Urban Trees for Stormwater Management
Jeremy Bailey, Green Blue Urban
- 11:00 Creating a Design Language for Low Impact Development
Marty Matlock, Office for Sustainability, University of Arkansas Department of Biological and Agricultural Engineering
- 11:15 Urban Stormwater Pollution Prevention through Storm Drain Visibility and Awareness
Colin Massey and Jane Maginot, University of Arkansas Division of Agriculture Cooperative Extension Service

11:30 – 1:00 Lunch (provided)



Special Session for the Arkansas Chapter of the American Water Resources Association

1:00 – 2:25 Session 7: Dam Safety and Water Supply Issues in Arkansas

- 1:00 Special Session Introduction
Daniel A. Marion, US Forest Service
- 1:05 USACE SWL Dam Safety and Reservoir Control Programs
Bradley Clark and Nathaniel Keen, US Army Corps of Engineers
- 1:25 Dam Safety in Arkansas
Trevor Timberlake, Arkansas Natural Resources Commission
- 1:45 The Village vs The Baron, How a Small Town Responded to a Major Watershed Threat
John Lester, Clarksville Light and Water
- 2:05 AWWA G300 Standard
Randy Easley, Central Arkansas Water

2:25 – 2:45 Networking Break

2:45 – 4:05 Session 8: Water Supply Issues in Arkansas

- 2:45 Harmful Algal Blooms: An Update on Assessing the Risks to Public Health and Drinking Water Supplies
Darcia Routh, Arkansas Department of Health
- 3:05 Arkansas Citizen Scientist Lake Monitoring Network: A Pilot Study
Brie Olsen, Arkansas Department of Environmental Quality
- 3:25 Arkansas Harmful Algal Bloom (HAB) Workgroup
Nathan Wentz, Arkansas Department of Environmental Quality
- 3:45 State Sections and the AWRA
John C. Tracy, Texas A&M University

4:05 – 4:15 Break

4:15 – 5:00 AR-AWRA Business Meeting



Water Monitoring Solutions®

